

Flexible Engine File and Application Backup user guide

Table of Contents

Service Description	
What is FAB?	4
Which elements can FAB protect ?	4
How to subscribe to and access the service?	5
FAB Subscription	5
Access	6
Service Closure	7
FAB Backup console description	9
Dashboard	9
Solutions	9
Configuration section	10
Monitoring	11
Jobs	11
Alerts	11
Events	12
Reports	12
Administration	13
Web console / Download Center	13
Identity & Access Management	14
Access management	14
FAB User profile description	14
FAB Deployment	15

FAB protection overview	15
FAB Connection architecture models	15
Deployment on your Premises	20
FAB Network Flow diagram	21
Agents description	22
Backup Plans description	22
Hyperscalers Applications protection	23
Agent installation	23
Authorization code (authcode)	23
File System Agent installation	24
DB Agent installation	29
VSA (Virtual Server Agent) installation	35
MS Exchange agent installation	39
FAB Configuration	41
Agent Management	41
Add a new agent to an existing device	41
Remove an agent from an existing device	42
Update an Agent	43
Backups Configuration	44
Backup Definitions	44
Add /modify a backup set	46
Activity disabling	47
Subclient management	48
Application backup Configuration	50
(VSA) Virtualization Client backup Configuration	52
Database backup Configuration	56
Hyperscalers applications protection configuration	58
On-Demand backup & restore	63
	63
On-Demand backups	
On-Demand Backups On-Demand Backup of Files & Folders	63
On-Demand backups On-Demand Backup of Files & Folders On-Demand Backup of Microsoft Exchange Database	63 64
On-Demand backups On-Demand Backup of Files & Folders On-Demand Backup of Microsoft Exchange Database On-Demand Backup of Virtual Machines (using VSA)	63 64 65
On-Demand backups On-Demand Backup of Files & Folders On-Demand Backup of Microsoft Exchange Database On-Demand Backup of Virtual Machines (using VSA) On-Demand Backup of Databases	63 64 65 66
On-Demand backups On-Demand Backup of Files & Folders On-Demand Backup of Microsoft Exchange Database On-Demand Backup of Virtual Machines (using VSA) On-Demand Backup of Databases On-Demand Backup of Hyperscalers Applications	63 64 65 66 69
On-Demand backups On-Demand Backup of Files & Folders On-Demand Backup of Microsoft Exchange Database On-Demand Backup of Virtual Machines (using VSA) On-Demand Backup of Databases On-Demand Backup of Hyperscalers Applications Restores	63 64 65 66 69 70
On-Demand backups On-Demand Backup of Files & Folders On-Demand Backup of Microsoft Exchange Database On-Demand Backup of Virtual Machines (using VSA) On-Demand Backup of Databases On-Demand Backup of Hyperscalers Applications Restores Recovery Point	63 64 65 66 69 70 70

Restore a Microsoft Exchange Database (DAG)	73
Restore Virtual Machines	74
Restore Databases	80
Restore Hyperscalers Applications	89
Jobs Activity follow-up	91
Active Jobs	91
Job history	92
Troubleshooting guide	. 92
What to do when getting an error	92
Checking the logs	92
Checking the Jobs	93
Check readiness	94
Client Backup services	95
Looking for alerts	96
How to contact the FAB support	98
FAQ	99
Which agent to choose for a standard Windows server backup?	99
Which agent to choose for protecting my Microsoft Exchange Database?	99
Which policy should I use for saving my files to Paris and to Amsterdam?	99

Service Description

What is FAB?

File and Application Backup (FAB) is a Backup-as-a-Service (BaaS) platform designed for the protection of files and applicative components like databases (and in some cases, systems) located either within Flexible Engine, on your Premises, or in any other Cloud provider.

FAB is a <u>Flexible Engine</u> service based on the <u>Commvault</u> technology, Providing all the benefits brought by the Orange public Cloud solution, and the robustness and efficiency of the Commvault backup software.

Data is transferred in a secure way to the FAB platform via built-in tunnels and according to the required security configuration, allowing the possibility to use internal encryption at all stages of the data transfer: source / proxy / FAB Platform / Storage. Protected data is stored within the Flexible Engine Object Storage, offering the flexibility, security, and availability of the Orange Public Cloud platform.

As a managed service, FAB offers the automation of the backups, letting them run on standard global schedules for daily incremental backups, and through internal processes for Full backups, limiting your administrative tasks, and the interactions between FAB and your infrastructure to their strict minimum required.

FAB also offers the possibility to operate on-Demand backups and Restores as you see fit, and in a few clicks.

To process your files & applications protection, FAB uses agents to deploy on your infrastructure, and it exposes a centralized web console to administrate and follow up the backup and restore activity.

The FAB service is available in all Flexible Engine regions. These regions are used to determine where the FAB connection is to be made from your data to our Infrastructure, as well as the storage location of your backups.

The following regions are available:

- **★** Eu-west-0 = Paris (France)
- ★ Eu-west-1 = Amsterdam (Netherlands)
- ★ Na-east-0 = Atlanta (US)

Which elements can FAB protect?

FAB relies on the Commvault technology to deliver the protection service ; however, a part of a public cloud solution, and therefore in order to offer a built-in and widely-used service, FAB cannot expose the Commvault product as is, and has to provide all the possible protection services in the context of such a public solution.

Currently the protection supported by the FAB support team is:

- ∞ Files and folders for Windows and Linux servers
- ∞ Microsoft Exchange infrastructure
- ∞ MSSQL databases
- ∞ Oracle databases
- ∞ VMware VMs

The FAB team works on releasing as many features as possible, with the only objective being to answer your needs in terms of data protection.

How to subscribe to and access the service?

As a Flexible Engine service, its subscription relies on the Flexible Engine subscription within the Orange Cloud portal "Cloud Store".

You may find all required documentations on the Cloud Store and Flexible Engine here:

https://cloud.orange-business.com/en/offers/infrastructure-iaas/public-cloud/assistance-flexible-engine/

FAB Subscription

If you already have a Flexible Engine tenant...

	Business Services
1	Bienvenue dans votre Cloud
Connect to the OCB portal "Cloudstore"	Merci de vous authentifier Pour poursuivre veuillez vous identifier Identifiant Mot de passe
https://selfcare.cloud. orange-business.com/	Se connecter Mat de passe sublit ? Identifient sublit ? Flexible Engine Domain manager credentials provided during the Flexible Engine subscrip



To subscribe to Flexible Engine...

To subscribe to Flexible Engine, you may either:

- contact your OCB Business Manager,
- or subscribe digitally for a trial phase:

https://cloud.orange-business.com/offres/infrastructure-iaas/tester-offre-flexible-engine/

Access

FAB users are created in the OCB Cloudstore by your Flexible Engine domain manager, or any FE user with the "Users Manager" role.

To access the Service...



Service Closure

To end the FAB service, you must decommission each agent declared in your FAB organization. To do so:

- Connect to the FAB Backup Console, and go to the Administration / Servers section
- Then for each backed up client, click on its Actions button, and click on Release license



• Select all the agents installed and click on OK to decommission

	×
Cancel	ок
	Cancel

Note: if you have a long retention set, it's recommended to open a ticket asking for your backups deletions

FAB Backup console description

FAB provides an html5 console to administrate your protection service. Your FAB environment refers to your "Company" as the Flexible Engine domain to which it's related. You may have as many FAB companies as you have subscribed for within your Flexible Engine domain. The console is set in the following sections:

Dashboard

A Dashboard offering a global vision on your company's protection. *Remember to select your Company*



Solutions

The "Solutions" section lists, by type, all the FAB agents you have installed for this FAB Company. From there, various operations are available depending on the agent type:



For all agent types, the display is as follows:

	Agent Type	e All	🖸 Age	ents c	count								٩	Search		C	Options	٠
	Name 1		÷	Last ba	ckup tir	me		i App	lication size	2		E Pla	an	:	Status		Actions	÷
	Agent name		Ι	Date &	z Time	e		Vol	ume			Ba	ackup plan		Protecte	d	Θ	-
Click furth	c on an agen er details	at to get								All op this a	eratio gent	ons a	available fo	or				Restore Associate plan Backup Jobs Update software Uninstall software Release license Check readiness Send logs
ecs-ocbdemo-w	in									Q, Search for t	ka							
General					Recovery	y points error	ultBeckupSet ¥											
Host Name		ecz-ocbdemo-win Jun 14, 2019 11:21 AM			< D See	December 2019	Test	Mart	The	E.) Set							
Version		11 SP16 HPK24			01	02	03	04	05	00	07							
Client readiness		Not Ready Last checked : be	c 26, 2019 1540 AM		00	09	10	11	12	13	14							
Last backup time		Dec 25, 2019 1:40 AM			15	10	17	1	19	20	21							
Oldest backup time		Dec 22, 2019 8:40 PM			29	30	31											
Application size		31,45 GB																
Savings percentage		95%			Dec 25						Restor							
					1:30 AM							¹						
Backup sets												FeeDa						
Type †	i Lest backup time i	Application size i	Pan i	Backup conte			i s	duded		# J	cions							
defaultBackupSet	Dec 25, 2019 1:39 AM	31.45 GB	FE-UNIVERSAL-7days-PARIS	\- All contents			No	exclude content			Θ	-						

Configuration section

The Configuration section provides general detail on the selected Company.

	The selected Co	ompany				
Protected	OCB000xxxx 0 Anter senters	D Appendiary	Contraction O Protect	en vide O Laman	<u> </u>	Plans
	General Company crusted on	Creation date OCB000xxxx		External authentication Not configured.	Edt	the selected
General	Languary as as Associated SMTP Use UPN instead of e-mail Enable Isus factor authentication	Nor set Authcode	Edit	Sites Prony Strange Net All Brookly Strange Net All		Company
Built-in profiles	Allow servers to evolve data encryption information over	Rented storage	Edit	Plans MONIFIER MONIFIER <thmonifier< th=""> MONIFIER <th< th=""><th>Copes A</th><th></th></th<></thmonifier<>	Copes A	
	CARLO STAN CONTROL (1745)/Tenant Admin CONTROL (1745)/Tenant Backaps CONTROL (1745)/Tenant Operator Store Internet descusion	Role Terulant Adress Cust, Backup Cust, Adress	į.	re Universita La Magis Anno 24 re Universita La Magis Anno 24 es La Martía Maria Maria 24 Ocerators: 0	2 2 7	
	Contacts Certain name	XXXX XXXX notaee	2.01	Xax Xax Ingi Xax Xax pibil Xax Xax pibil Xax Xax Xax Control C		FAB Users for
Company	Email settings Not configured		Edit	Xuu Xuu Xuu Xuu		
primary contact		Exceptions configuration		*User access is managed (see the Identity and Acc	in the Cloud Store, not cess Management se	in FAB action)
	Monitoring					

The Monitoring section provides vision on 3 sub sections built to help monitor the protection activity



Jobs

This section is split in 2:

	Activ	e jobs	_	J	ob history		Lists p	revious jobs	5													
Lists all currently		Job	histor	у (Last 24 hours •	Ð															٥	2
active jobs in the			Job I	i	Operation	1	Server		1	Age	i	Subc	1	Server i	s., i	End	i	Elap	i	Status	i	
Selected Company			XXXXXX		Auxiliary Copy										0 B	XXXXXX		1 sec		Completed	L j	i.

Alerts



Events



Events are displayed using the following severity matrix:

applications.
OCESS.
ion of jobs.
i

Each event ID is unique, one job = one event ID

Reports

You may find here all reports built on your protection activity:

Reports	Actions V Q, jearch
Recent	
SLA SLA helps to mendar the ouccess of prosec. Backup Summary Rackup job summary Rackup job summary	Job Statistics This report gives various system and jub ρ
Jobs	
Backup job Summary Dackup job summary report Backup job summary Backup job summary	
Monitoring	
Aux copy job details Unplays information about Ass Copy jobs. Plastore job summary Shows restore jobs that were run in the C SLA helps to member the success of protect.	
Untagged	
Iob Statistics This report gives verious system and job p	

Administration

		💪 Administrat	tion		
		Servers			
nvironment				Needs attention	Î
RLE SERVERS	NAS FILERS DATABASE : XXX XXX	SERVERS VMS XXX	CLOUD APPS XXX	× SERVERS	XXX JOB5
ervers			Q, Search	Add gateway Ad	dd server 🔻 🏚
ame †	E Agent	I Version I	os i	Update status 🕴 A	ctions :
	A stand former	A continuing	OS version	Agent status	(-) ^

This section is used to manage the protection of your devices (listing, configuration, installation, removal...).

Web console / Download Center

The Download center is used to download all the FAB agent packages to install on your devices to initiate their protection.

Т

List of available FAB agents (click for details)

Filters	Reset filters Version 11 (15) Category [Organies] Add-on agarta (additional(5) File System (4)	Q. VSA-Agent_L Release Date: Ju Edit FS-Agent_Lin Release Date: Ju Edit	inuxX64 [*] n 16, 2020 03:30:00 AM Version: 11 () Delete nuxX64 16, 2020 03:30:00 AM Version: 11 () Delete	English • Help XXX C C Release Date Descending Download Download	Click to download the corresponding agent
	Platform Windows-w64 Linux-w64 Linux-w66 Windows-w66	FS-Agent_Wi Release Date: Ju	nX64 n 16, 2020 03:30:00 AM Version: 11 Î) Delete	Download	
	Status Active (15)	FS-Agent_Lin Release Date: Ju	uxX86 n 16, 2020 03:30:00 AM Version: 11 1) Delete	Download	

Identity & Access Management

Access management

The access to FAB is not managed within the FAB console but within the Cloud Store: https://selfcare.cloud.orange-business.com/

Access is provided to a Cloud Store user, on each required Flexible Engine FAB Organizations. Initially, only the Flexible Engine domain owner may provide accesses. The domain owner has the possibility to delegate such access granting to users by assigning them the required role.

You will find here the Cloud Store documentation: <u>https://cloud.orange-business.com/wp-content/uploads/2019/09/CloudCustomerSpace_UserGuide_FEoffer-EN.pdf</u> The IAM is described in the chapter "Users section".

In order to provide the access to FAB, the user must be granted the "Cust_Admin" profile within the Role assignation "Backup Console" as below:

9	Services	No access or select one role	7			
		Only one role can be selected for this application	-			
0	Subscripti	No access or select one role	-			
		Only one rols can be selected for this application				
8	Support	No access or select one role	ī			
		City one role can be selected for this application	_			
0	Users	No access or select one role				
		Only one role can be selected for this application	_			
0	Backup co	No access or select one role	1			
		Cust_Admin	ſ			
0	Flexible En	FAB domain admin role		0	Backup	# Cust Admin
		An and other see her advected for the sector of a			console	University can be extended for this application

FAB User profile description

The access to FAB has been built for Backup Operators.

Therefore all users granted access to FAB gain access to their Company (Flexible Engine domain) backup & restore configuration and operation, logged activities, notifications, as well as all reports built to monitor the Company protection.

FAB Deployment

FAB protection overview

There are 2 different models of FAB protection:

- Protection of servers files and databases: using preconfigured FAB agents to install on your servers to protect
- Protection of hyperscaler applications (like Office 365...): using specific configuration set directly in the Command center

The following chapter describes the standard agents deployment.

To understand better the hyperscaler applications protection deployment, please refer to chapter "Hyperscaler applications protection".

The agents manage the backup and restore activity locally on the device, and are configured to secure and transfer data to the FAB central environment for storage within the Flexible Engine Object Storage.

FAB Agents are preconfigured and packaged to facilitate their deployment in your infrastructure.

They are available for download from the Download Center (see the "Download center" section above).

Backups are processed automatically, as managed centrally and globally within FAB.

The Backups run every day between 8PM and 8AM French time (GMT +1).

The policy is to run incremental backups every weekday within this night time window and a full backup during the weekend, all day.

The FAB deployment is mainly a 2-step method:



These two steps are described in detail in the following sections.

FAB Connection architecture models

Various possibilities are offered to setup the connection to the FAB service, depending on the network architecture in place in your company:

• Direct Internet : if your data to protect has a direct internet connection

• Using an Internet Proxy (http proxy): If your data to protect is not directly connected to the internet (behind an internet proxy like squid, ccproxy etc.). The agent setup offers you the possibility to inform the FAB agent of your http proxy configuration.

You may also want to refer to the FAB Network Flow Diagram section for the network opening settings in your company network

• FAB Endpoint service : If your data to protect is on Flexible Engine, FAB offers the possibility to use the VPC Endpoint service to connect to FAB, rather than using the internet connection (through Elastic IP or NAT Gateway) You may refer to the VPC Endpoint documentation <u>here</u> for a detailed explanation on this FE network service.



Logical representation of generic network deployment to connect to FAB regions using different methods

Creating FAB Endpoint connection

Note:
The FAB Endpoint service is currently available in eu-west-0 region only.
In order to provide the necessary redundancy on the FAB Endpoint connection method, it's
required to build 1 Endpoint connection for each FAB Endpoint service :
FAB-EP-PARIS-A
&
FAB-EP-PARIS-B

• To create an endpoint connection to FAB proxy servers, you need to logon to your domain Flexible Engine console, to the Network section, and Click on VPC Endpoint

Netw	Network ~				
Ø	Virtual Private Cloud (2) Provides securely isolated virtual networks				
⊅	Elastic Load Balance (1) Debributes hulfic across milliple ECSs				
Ş	Direct Connect High-speed, stable network access service				
8	Domain Name Service (0) Stable, secure, fast domain name resolution				
¢	NAT Gateway (1) High-performance Internet pateway				
-9	VPC Endpoint (0) A secure service for accessing internal networks				

• On the VPC Endpoint page, Click +Create VPC Endpoint

VF	PC Endpoints ⑦						+ Create VPC Endpoint
	You can create 60 more VPC endpoints. G	uota detaila		VPC endpoint service n	ste	•	Q Search by Tag ⊗ C
	ID	VPC	Status	VPC Endpoint Service	Туре	Created	Operation

• Click on Find a service by name:

Create VPC End Create VPC End	lpoint	
Region	eu west 0 👻	
	Regions are geographic areas isolated from each other. Resource incourse increases, weleast the reserved region.	es are region-specific and cannot be
* Service Category	Cloud services Find a service by name	
* Service List		
	Name	Owner
	com orange-business prod-cloud-ocb.eu-west-0.obs-i	nternet OCB
	Com annge-business prod-cloud-och eu-west-0 dns	OCB
	Com orange-business prod-cloud-octi.cu-west-0.obs	OCB
	Currently selected: com orange-business prod-cloud-ocb eu-we	st-0 obs-internet
* VPC	Teet(10.200.200.0/24) * C V	ew VPCs
* Floute Table	rtb-Test 🔍 👻 C 💔	ew route tables

• To assign FAB Proxy "FAB-EP-PARIS-A" a private IP Address from your subnet.

1. Type in eu-west-0.FAB-EP-PARIS-A.de7ad2ef-8208-44a0-aad9-5d7699c6e413 in the VPC Endpoint Service name and click on Verify:

Region	eu-west-0	v
	Regions are geographic ar and quick resource access	reas isolated from each other. Resources are reg s, select the nearest region.
* Service Category	Cloud services	Find a service by name
* VPC Endpoint Service Name	eu-west-0.FAB-EP-PAR	IS-A.de7ad2ef-8208-4 Verify ?
* VPC	vpc-demo-POC(10.10.0	.0/16) C View VPCs
Tag	It is recommended that yo	u use TMS's predefined tag function to add the Tag value

2. Determine the VPC / Subnet containing the servers to protect (see figure below)

3. Click on Manual, then determine & assign an IP address for the FAB proxy (IP must be in your local subnet), click on Verify, and then click on Create Now.

Region	eu-west-0 *	
	Regions are geographic areas isolated from select the nearest region.	each other. Resources a
* Service Category	Cloud services Find a service	be by name
* VPC Endpoint Service Name	eu-west-0.FAB-EP-PARIS-A.de7ad2ef-82	08- Verify (
	Service name found.	
Private Domain Name	Create a Private Domain Name 🕥	
Private Domain Name * VPC 2	Create a Private Domain Name (?) Test(10.200.200.0/24)	• C Mew V
Private Domain Name * VPC * Subnet	Create a Private Domain Name (?) Test(10.200.200.0/24) subnet-6feb(10.200.200.0/24)	• C Vew V
Private Domain Name * VPC * Subnet * Private IP Address	Create a Private Domain Name (?) Test(10.200.200.0/24) subnet-6feb(10.200.200.0/24) Automatic Manual	C Vew V
Private Domain Name * VPC * Subnet Private IP Address	Create a Private Domain Name (?) Test(10.200.200.0/24) subnet-6feb(10.200.200.0/24) Automatic Manual 10 + 200 + 200 + 1	C View V

• To assign FAB Proxy "FAB-EP-PARIS-B" a private IP Address from your subnet.

1. Type eu-west-0.FAB-EP-PARIS-B.e5ad15ef-848a-47d4-9cc6-e4f31f2d0058 in the VPC Endpoint Service name and click on Verify:.

Region	eu-west-0 💌
	Regions are geographic areas isolated from each other. Resources are regic and quick resource access, select the nearest region.
* Service Category	Cloud services Find a service by name
* VPC Endpoint Service Name	eu-west-0.FAB-EP-PARIS-B.e5ad15ef-848a-4 Verify (?)
* VPC	vpc-demo-POC(10.10.0.0/16)
Тад	It is recommended that you use TMS's predefined tag function to add the s
	Tag key Tag value
	You can add 10 more tags.

2. Determine the VPC / Subnet containing the servers to protect (see figure below)

3. Click on Manual, then determine & assign an IP address for the FAB proxy (IP must be in your local subnet), click on Verify, and then click on Create Now:



<u>Note</u>: Remember to <u>take a note of the FAB proxy's local IP address</u> you will define, as it will be asked during the installation of File system agents to protect using this connection (see the **File System Agent installation** section).

Deployment on your Premises

FAB provides the possibility to protect your On-Premise data.

The On-Prem agents contact directly the Central FAB infrastructure for backup and restore flows.

Therefore it's required to make sure they can access it.

The below diagram represents the data flow for the FAB service, depending on your infrastructure:



FAB Network Flow diagram

The flow diagram to open is the following:

Source	IP	Destination	IP	Protocol	PORT
Your devices or your http proxy server	your IP Address(es)	backup-proxy-a.eu-west-0.prod-cloud-ocb.orange- business.com backup-proxy-b.eu-west-0.prod-cloud-ocb.orange- business.com	90.84.195.66 90.84.195.67	https	443

<u>Note</u>: You may choose whether to connect each agent directly to FAB, or to use an http proxy on your Premise. Either way, the corresponding network openings must be made on your source site to allow connections to FAB

Agents description

Various agents are packaged and made available within the Download Center (see the "Download center" section above). Each agent is packaged to answer a need you may have, and all agents are therefore available for you to deploy on your infrastructure to protect.

The agent name has been designed for you to understand its use case. The naming convention is as follows:



The "Apps" agent type is used to protect available applications like "Exchange".

The FAB file system agents give the options to choose the Flexible Engine regions where FAB services are available. Your agent should connect to the most relevant zone depending on your geographical situation.

Note: You may click on a an agent to get further details

Backup Plans description

In order to cover as many cases as possible to protect your data, FAB provides a list of available Preconfigured Backup Plans. The Plans naming provides all required information to determine its use case:



To determine which Plan to use in which case, these are the questions you should be able to answer:

- 1- What type of data is to be protected?
 - Backup Type
- 2- Where do I want my protected data to be stored?
 - Stored data location
- 3- Do I need a secondary copy of the data, stored elsewhere?
 - Possible secondary location

Hyperscalers Applications protection

For now FAB offers the possibility to protect Exchange online as part of the Microsoft 365 online product.

In order to protect your Exchange online environment, a specific method allows you to add the component directly from the Command Center. And for this type of protection, the agent is a built-in agent deployed directly on our FAB central environment and from the Command center. So there is no need to install any agent on your devices for such protection. The configuration is described in the FAB configuration chapter.

Once configured, FAB uses the predefined Hyperscaler's API and urls to connect to and protect the online environment, in order to store it on Flexible Engine Object storage for the retention of your choice.

Agent installation

The following section details the installation process for all types of available FAB agents:

Authorization code (authcode)

In order to authenticate the FAB agent with your FAB environment an authcode is necessary. This authcode is an auto-generated key that allows connection of all required agents to the chosen FE/FAB Company.

To set up and copy an authcode on the selected Company...

• In the FAB Backup console, go to Configuration/Companies.

• Then, in the "General" frame, make sure the option "Requires authcode for installation" is enabled, or click on the button to enable it (note that this option is by default disabled):



• The code will be generated automatically, Copy it for a later use by clicking on the authcode directly:



File System Agent installation

Windows server agent installation



• Download package from the Download center, the File System Agent based upon the Windows operating system architecture type (32 bit or 64 bit):

Download Center				
Reset filters	Q	×		
Version		EC Agent WinV64		
11 (2)	- North	Release Dates Jun 16, 2020 03:30:00 AM Version: 11		
Category [Organize]		Descriptor: Windows Install package for FAB File System agent for all		
File System (2) ×		pour toutes les région		
Platform				
Windows-w86 (1)		FS-Agent_WinX86 Release Date: Jun 16, 2020 03:30:00 AM Version: 11		
Status		Descriptor: Windows X85 Install package for FAB File System agent		
Active (2)		Windows X80 pour toutes les région Edit Delete		

• Unzip the package onto the server to protect:

Name	Date modified	Туре	Size
S BinaryPayload	6/11/2020 6:30 AM	File folder	
Common	6/11/2020 6:30 AM	File folder	
San ThirdParty	6/11/2020 6:30 AM	File folder	
🖃 BinaryInfo	6/11/2020 6:30 AM	XML Document	3,199 KE
BineryInfo.cml.description	6/11/2020 6:30 AM	DESCRIPTION File	1.KE
📰 Brandlist	6/11/2020 6:30 AM	Text Document	1 KE
E cv7x	6/11/2020 6:30 AM	Application	961 KB
🔄 install	6/11/2020 6:30 AM	XML Document	5 KE
i installer	6/11/2020 6:30 AM	Windows PowerS.	6 KB
& Launchinstaller	6/11/2020 6:30 AM	Application	189 KE
💽 Qinstaller	6/11/2020 & 30 AM	Application	174 KB
RootFilesSummary	6/11/2020 6:30 AM	XML Document	1 KE
8° Setup	6/11/2020 & 30 AM	Application	17,374 KB
version	6/11/2020 6:30 AM	Text Document	1 KE
12 WinPackages	6/11/2020 6:30 AM	XMI. Document	71 KP

• Right click the PowerShell installer script and on the properties page click / select Unblock (depending on OS version)

<u>Note</u> : Windows security policy might block the ps1 or .exe file execution. In that case, right click the install.bat, go to properties and select unblock					
	Attributes: Security:	Read-only Hidden This file came from another computer and might be blocked to help protect this computer.	Advanced ar t		

• Open "PowerShell" as Administrator

Nindouş	PowerShell
Desitting a	Run es administrator
2 Window	Run as a different user
Theorem 2	Open file location
Aces	Unpin from Start
A Mindows F	Pin to taskbar
Windows F	Uninstall
Settings	Ran as Administrator
😸 Edi power	Run ISE on Administrator
O Pewerik s	Windows Powe Shell SE

• Change to the directory where the package was extracted, and execute the installer.ps1 You will be asked below questions: • FAB region to use: (Paris – Eu-west-0, Amsterdam – Eu-west-1 or Atlanta – Na-east-0) - This selection decides in which FAB region the backup is stored for your server, it's important that the nearest geographical FAB region to your server be chosen else backup performance is impacted.

• Connection method to FAB region: (Internet Proxy, FE Endpoint services or Direct (Elastic IP / NAT) and provide input -This selection decides how your server connects to FAB regions based upon the network defined on the server. See section FAB connection architecture models for details.

• Company Auth. Code



<u>Cloud location:</u> The FE/FAB AZ to which protected data will be transferred. To be chosen with care, as this may impact degraded network performances if not

The installation completes after several minutes



For details on FAB region and Connection method refer to section: Service Description and FAB protection overview

• Ensure that Commvault Services are running in Windows:

🔍 Commvault Client Manager Service (Instance001)	This service	Running	Automatic
🔍 Commvault Communications Service (Instance001)	This service	Running	Automatic
饶 Commvault Network Daemon (Instance001)	This service	Running	Automatic

• Ensure that your server is discovered in the FAB Backup console:

Go to the Administration / Servers section:

Servers				(🔾 Search		Add serve	•	¢
Name	i Agent↓		: Versi	. :	OS	ł	Updat	Actio	ł
Serv	er name	Operating System	Agent status						

If the server is not visible then press cntrl + F5 together, it would clear the local cache and present latest data

Linux server agent installation

Prerequisites:

- The required agent package (corresponding to the server OS and to your need) has been downloaded from the download Center
- This downloaded agent package has been transferred to the server to protect
- The server to protect is able to communicate with the FAB central infrastructure on https (port 443)
- An authcode has been generated for the required FE/FAB Company (see above "authcode" section)

• Download package from the Download center, the File System Agent based upon the Linux operating system architecture type (32 bit or 64 bit):

Download Center		
Reset filters	Q, Linux	×
Version		
11 (2)	TR. AMAR	FS-Agent_LunuxX64 Release Date: Jun 16, 2020 03:30:00 AM Version: 11
Category (Organize)		Description: Linux Install package for FAB File System agent for all regions
File System (2) ×		toutes les région
Platform		
Linux-odd (1)		FS-Agent_LinuxX86
Linux-a06 (1)	(and	Release Date: Jun 16, 2020 03-30:00 AM Version: 11
Status		Description: Linux XB6 Install package for FAB File System agent for all region
Active (7)		pour toutes les région

• Extract the package on to the server

[root@ecs-ams-01-rhel	<pre>software]#</pre>	ls			
FS_Linux-x64.tar.gz					
[root@ecs-ams-01-rhel	software]#	tar	-xzvf	FS_Linux-x6	4.tar.gz

- Run installer script (installer.sh) and choose the install options (to install or generate answer file).
- Choosing install option (1) would ask for below options and install the agent.

• FAB region to use: (Paris – Eu-west-0, Amsterdam – Eu-west-1 or Atlanta – Na-east-0) - This selection decides in which FAB region the backup is stored for your server, it's important that the nearest geographical FAB region to your server be chosen else backup performance is impacted.

• Connection method to FAB region: (Internet Proxy, FE Endpoint services or Direct (Elastic IP / NAT) and provide input -This selection decides how your server connects to FAB regions based upon the network defined on the server. See section <u>FAB connection architecture models</u> for details.

• Company Auth. Code

[root@ecs-at1-01-rhel FS Linux]# ./installer.sh
Choose an option:
1) Install FAB Linux Filesystem Agent
2) Generate answerfile for multiple slient installation
3) Quit
#? 1
Choose FAB region for configuring Backup:
1) FAB Paris region / Eu-West-0
2) FAB Amsterdam region / Eu-West-1
3) FAB Atlanta region / Na-East-0
#? 3
Choose an connection method:
1) Server use Internet Proxy for backup to FAB region
2) Server use FE Endpoint service for backup to FAB region
3) Server have Public IP or Direct internet for backup to FAB region
#? 3
Please enter your Auth Code:
Using update installer /opt/.gxsetup/silent_install/newinstall:
 unzipped from /software/FS_Linux/linux-x8664/LooseUpdates/CU55/linux-
- v1182174
Preparing READY.
EXTRACT_DIR = /opt/.gxsetup/silent_install
Installation completed with success
[root@ecs-at1-01-rhel FS_Linux]#

<u>Cloud location:</u> The FE/FAB region to which protected data will be transferred.

To be chosen with care, as this may impact degraded network performances

Installation lasts around 3 to 4 minutes if the FW configuration is OK

• If you want to install agent on multiple servers in the same region using same connection method and don't want to execute this script on each server then. Choose option 2 at the first menu.

• It would ask all the options as asked in option 1 (mentioned above) but won't install the agent rather it would be generate the silent xml file (rename-default.xml) which need to be renamed as default.xml and existing default.xml be over-written by this new file.

ľ	root@ecs-at1-01-rhel FS_Linux]# ./installer.sh
С	hoose an option:
1) Install FAB Linux Filesystem Agent
2) Generate answerfile for multiple slient installation
3) Quit

• Then extracted package along with this xml file needs to be copied to all servers and then installed via the below command.

./silent_install -p default.xml -authcode <your Auth Code>

• Ensure that your server is discovered in the FAB Backup console:

Go to the Administration / Servers section

Servers				9	Search		Add serve	r 🔻		2
Name	÷	Agent I	Versi	ł	OS	÷	Updat	Ar	ctio	:

If the server is not visible then press cntrl + F5 together, it would clear the local cache and present latest data

DB Agent installation

Oracle agent installation

Prerequisites:

- The FAB DB-Agent package has been downloaded from the Download Center
- This downloaded agent package has been transferred to the Oracle server to
 protect
- The FAB File System agent has been installed on the Oracle server to protect
- The Oracle server to protect is able to communicate with the FAB central infrastructure on https (port 443)
- An authcode has been generated for the required FE/FAB Company (see the "Authorization code" section)
- You have administrator / root privileges on the Oracle Server to protect

Download the package from the Download center to the Oracle server to protect:

Download Center	Q, D6	×
Version 11(9) Cellegory (Organia) Anti-anagente (actionate (2) X	DB-Agent_WinX64 Rideace Date: Jan 10, 2019 0450.00 AM	Vasion II
Platform Unaved4 (1) Westers at2 (1)	DB-Agent_LinuxX64 Release Dete: Jam 10, 2019 04/36:00 AM	Version: 11

Unzip / Decompress the package onto the Oracle server to protect:

```
[root@ecs-oracle-01 /]# cd /software
[root@ecs-oracle-01 software]# mkdir ORACLE
[root@ecs-oracle-01 software]# tar -C ./ORACLE -xzvf Oracle_Linux-x64.tar.gz
./
./linux-x8664/
./linux-x8664/linux-glibc2.3-x86_64/
```

• Run the install by executing the "./cvpkgadd"

[root@ecs-o	rac	1e-01	Soft	ware]#	cd 0	RAC	LE	
[root@ecs-or	rac	1e-01	ORAC	LE]# 15	-lt			
total 204								
-IW-I		root	root	1702	Jun	11	05:34	default.xml
-TWXTWXTWX.		root	root	2769	Jun	11	05:34	pkg.xml
-rw-rr	1	root	root	10	Jun	11	05:34	pkg.xml.description
drwxr-xr-x.	11	root	root	4096	Jun	11	05:34	linux-x8664
-TWXTWXTWX.		root	root	103812	Jun	10	03:28	rompkg.xml
-IWXIWXIWX.		root	root	52	Jun	10	03:28	support
-YWXYWXYWX.		root	root	132	Jun	10	03:27	cvpkgadd
-rwxrwxrwx.	1	root	root	63394	Jun	10	03:27	detect
-IWXIWXIWX.		root	root	132	Jun	10	03:27	silent_install
-TWXTWXTWX.		root	root	119	Jun	10	03:21	version
-IWXIWXIWX.		root	root	52	Jun	10	03:27	cvpkgseed
[root@ecs-or	rac	le-01	ORAC	LE] # ./	avp k	gad	d	
Using update - unzipped - v1182174	e in fr	nstal. cm /s	ler /: oftwa:	root/.gr re/ORAC	kseti LE/1	inu	cvpkgad x-x866	1d/newinstall: 4/LooseUpdates/CU55/linux-glibc2.3-x86_64/installer/newinstall.gz
Preparing .	. R	EADY.						
EXTRACT DID		INDOT	1 ana	arunlan	n Innin	44		

Follow the instructions in the setup, choose the options exactly as selected below:

		Version 11
		OEM Selection
~	Please choose an OEM for installation	
	<pre>(X) Commvault () Hitachi Data Protection Suite () Commvault Express () Showcase () NetApp () VMWare Protection () Medical Imaging () IntelliSnap(tm) Recovery Manager () Eternus Snapshot Manager () Sapphire () HP Snap Manager () Commvault Edge () MSP () IntelliSnap for NetApp</pre>	
	3	Version 11
		Install Task
	(<mark>X</mark>) Install packages on this machine () Create custom package	
		Version 11
		Instance Page
	Please select new or existing instanc	e to install
	() Create new instance (X) Select Instance001 [CS :	

Install Task
Please select one of the following: (X) Add packages () Install updates
Version 11
Package Selection
[<mark>X</mark>] Oracle

> The installation completes after several minutes.

	Version	11
	Installation	Status
Installation completed successfully	,	

To relink the Oracle SBT Library:

Change to oracle agent install location, execute the Ora_install.sh script then provide all inputs: Oracle user, user group has to be oinstall, Oracle Home directory and user home directory



> Verify the Oracle SBT Library is correctly linked:

1s -1 /u01/app/oracle/product/12.2/db_1/lib/libobk.so
May 15 04:33 /u01/app/oracle/product/12.2/db_1/lib/libobk.so -> /opt/commvault/Base/libobk.so

Modify the permission for the group oinstall by executing /opt/commvault/Base/cvpkgchg:

```
[root@ecs-oracle-01 iDataAgent]# cd /opt/commvault/Base
[root@ecs-oracle-01 Base]# ./cvpkgchg
~~~ Instance001 11.0.0 @/opt/commvault ~~~
Using installer /opt/commvault/installer/newinstall:
  - v1182174
Preparing .. READY.
```

EXTRACT_DIR = /opt/.gxsetup/cvpkgchg

Version :

Unix Group Selection

Please enter the name of the group which will be assigned to all Commvault files and on behalf of which all Commvault processes will run.

In most of the cases, it is a good idea to create a dedicated "commvault" group. However, if you are planning to use Oracle iDataAgent or SAP Agent, you should enter Oracle's "oinstall" group here.

If you are planning to assign a group other than "root", and planning to use the "impersonate user" option during restore, then all such impersonating users must be a part of this user group.

Unix Group Name: oinstall



Verify the agent installation by running commvault status



MS SQL server agent installation



Jownioad Center Reset filters	Q.	
Version		
11 (2)	DB-Agent_WinX64 Release Date: Jan 10, 2019 04:30:00 AM Version: 11	
Category (Organize)	🖉 Edit 🏦 Delete	
Add-on agents (additional(7) \times		

Unzip the package onto the SQL server to protect:

is PC + SYSTEM (C;) + Temp + DB-Agent_WinX64 +

Name	Date modified	Туре	Size
퉬 BinaryPayload	3/5/2020 6(36 AM	File folder	
3 Common	3/5/2020 6:36 AM	File folder	
퉬 Global	3/5/2020 6:56 AM	File folder	
퉬 ThirdParty	3/5/2020 6:36 AM	File folder	
BinaryInfo	3/4/2020 5:19 AM	XML Document	3,199 KB
BinaryInfoxmLdescription	3/4/2020 5:19 AM	DESCRIPTION File	1 KB
Brandlist	3/4/2020 5:19 AM	Text Document	1 KB
📰 cv7z	3/4/2020 5:19 AM	Application	961 KB
😵 Launchinstaller	3/4/2020 5:19 AM	Application	189 KB
Cinstaller	3/4/2020 5:19 AM	Application	174 KB
RootFilesSummary	3/4/2020 5:19 AM	XML Document	1 KB
🖧 Setup	2/7/2020 7:01 PM	Application	17,374 KB
i version	3/4/2020 5:19 AM	Text Document	1 KB
WinPackages	3/4/2020 5:19 AM	XML Document	71 KB

• Run the install by double clicking on the "Setup.exe"

Note: Some OS security policy	might b	lock the batch or .e>	xe file.
In that case, right click the Setu	p.exe, g	go to properties and	select unblock
	Attributes:	Read-only Hidden	Advanced
	Security:	This file came from another computer and might be blocked to help protect this computer.	Unblock

• Follow the instructions in the installer according to your need, select the "add packages" and "Database / SQL Server" options:

COMMVAULT 🚯		×
Install Option		
Install Updates Add Packages Repair Existing Instance		
<		>
COMMVAULT 🕄		\times
COMMVAULT 🕄		×
COMMVAULT © Select Packages Microsoft Windows Database	☐ Oracle ✓ SQL Server	×

> The installation completes after several minutes, click on "Finish"

DMMVAULT	×
Installation and configuration completed successfully.	

VSA (Virtual Server Agent) installation

Virtual Server Agent (VSA) manages backups and restores for virtual machines or instances. The VSA is installed on computers that can perform backup and restore operations for a specific hypervisor platform.

The VSA supports different hypervisors (currently only VMware is supported in FAB), providing custom views and parameters for each hypervisor.

The server running the FAB VSA agent is called an Access Node ; and it needs to be deployed either within the VMware Infrastructure as a VM or on a physical server inside your Infrastructure, able to communicate with the vCenter and ESXi servers.

Such can be represented as follows:



VSA Prerequisites:

- The VSA agent package has been downloaded and transferred to the server that would act as access node for VM backup (see the web console section)
- An authcode has been generated for the required FE/FAB Company (see above "authcode" section)
- You have a user account with required permissions to backup virtual machines
- If using Internet Proxy to connect to FAB then FAB backup proxies name resolution should be working from the server where the VSA agent would be installed (the access node).
- The FAB File System agent has been installed on the future Access Node

VSA Recommendations:

- Is preferred to have direct access to FAB from the access node (No Internet proxy if possible)
- The Access Node File System backup can be configured if required to secure the Access Node itself
- With limitation due to the Network link, VSA is best suited for small sized environments to protect (several VMs)
- Access Node specification for small sized infrastructure to protect:
 2 CPU cores, 16 GB RAM or 2 vCPUs / 24 GB RAM
| ABACUS on the bandwidth consumption using the FAB VSA agent: |
|---|
| Access node using Internet Proxy, and with100 Mbps shared Internet Link <u>Backup</u> – 4 VMs concurrently, consolidated size of 96 GB → Sustained backup speed between 6 - 8 MB/s <u>Restore</u> – 1 VM, Full Restore, Size 17GB → Average restore speed 13 MB/s |

• Download the package from the Download center on the future Access Node server:

Download Center	
Reset filters	Q
Version	105.6 Amont MinVEA
11 (1d)	Release Date: Apr 10, 2020 12:00:00 AM Version: 11
Category (Organize)	2 Edit III Delete
Add-on agents (additional (4)	and a state of

• Unzip the package onto the server:

is PC > SYSTEM (C:) > Temp > VSA_WinX64

· · · · · · · · · · · · · · · · · · ·			
Name	Date modified	Туре	Size
BinaryPayload	6/11/2020 8:58 AM	File folder	
Common	6/11/2020 8:58 AM	File folder	
	6/11/2020 8:58 AM	File folder	
🖺 BinaryInfo	6/11/2020 8:58 AM	XML Document	3,199 KB
BinaryInfo.xml.description	6/11/2020 8:58 AM	DESCRIPTION File	1 KB
Brandlist	6/11/2020 8:58 AM	Text Document	1 KB
📧 cv7z	6/11/2020 8:58 AM	Application	961 KB
💑 Launchinstaller	6/11/2020 8:58 AM	Application	189 KB
QInstaller	6/11/2020 8:58 AM	Application	174 KB
RootFilesSummary	6/11/2020 8:58 AM	XML Document	1 KB
💑 Setup	6/11/2020 8:59 AM	Application	17,374 KB
version	6/11/2020 8:58 AM	Text Document	1 KB
WinPackages	6/11/2020 8:58 AM	XML Document	71 KB

• Run the install by double clicking on the "Setup.exe"

Note: Some OS security policy might block the batch or .exe file.						
In that case, right click the Se	etup.exe, go to properties and select unblock					
Attributes:	Read-only Hidden Advanced.					
and might be blocked to help protect Unblock						

• Follow the instructions in the setup, choose the language, accept the License, then check the box Install packages on this computer.

Install packages on this computer

To install packages on this computer, administrator privileges are required.

- Create a custom package to install on a different computer
- Select the "add packages" and "Virtualization / Virtual Server" options:

COMMVAULT 🛞		×
Install Option		
 Install Updates 		
Add Packages		
 Repair Existing Instance 		
<		>
COMMVAULT 🛞		×
COMMVAULT 🛞 Select Packages		×
COMMVAULT & Select Packages	Virtual Server	×
COMMVAULT Select Packages Microsoft Windows Virtualization	Virtual Server	×
COMMVAULT (S) Select Packages Microsoft Windows Virtualization	Virtual Server	×
COMMVAULT (S) Select Packages Microsoft Windows Virtualization	Virtual Server	×
COMMVAULT (S) Select Packages Microsoft Windows Virtualization	Virtual Server	×
COMMVAULT & Select Packages Microsoft Windows Virtualization	Virtual Server	×
COMMVAULT © Select Packages Microsoft Windows Virtualization	Virtual Server	×
COMMVAULT © Select Packages Microsoft Windows Virtualization	Virtual Server	×

> The installation completes after several minutes, click on "Finish"



• Ensure that your server is discovered in the FAB Backup console: Go to the Administration / Servers section:

Servers		
Name	:	Agent ↓
XXXXXX		Windows File System, Virtual Server

MS Exchange agent installation



• Download package from the Download center on the Exchange server:

Download Center	
Reset filters	Q,
Version	A served before the state of the
11 (1)	Apps-Agent_WinX64 Release Date: Jan 10, 2019 04:30:00 AM Version: 11
Category [Organize]	/ Edit 🗊 Delete
Add-on egents (additional(1) $ imes$	
Platform	Showing 1 to 1 of 1 results.

Unzip / Un-compress the package onto the Exchange server to protect:

Name	Date modified	Туре	
BinaryPayload	6/12/2020 6:53 PM	File folder	
Common	6/12/2020 6:53 PM	File folder	
hirdParty	6/12/2020 6:53 PM	File folder	
📄 BinaryInfo	6/12/2020 6:53 PM	XML Document	
BinaryInfo.xml.description	6/12/2020 6:53 PM	DESCRIPTION File	
Brandlist	6/12/2020 6:53 PM	Text Document	
📧 cv7z	6/12/2020 6:53 PM	Application	
💑 Launchinstaller	6/12/2020 6:53 PM	Application	
📧 QInstaller	6/12/2020 6:53 PM	Application	
🔮 RootFilesSummary	6/12/2020 6:53 PM	XML Document	
🖑 Setup	6/12/2020 6:53 PM	Application	
version	6/12/2020 6:53 PM	Text Document	
🔮 WinPackages	6/12/2020 6:53 PM	XML Document	

• Run the install by double clicking on the "Setup.exe"

Note: Some OS security policy m	night blo	ock the batch or .e:	æ file.		
In that case, right click the Setup.exe, go to properties and select unblock					
A	Attributes:	Read-only Hidden	Advanced		
s	Security:	This file came from another computer and might be blocked to help protect this computer.	Unblock		

• Follow the instructions in the installer according to your need, select the "add packages" and "Applications / Exchange" options:



> The installation completes after several minutes, click on "Finish"

FAB Configuration

This chapter details all configurations editable within FAB.

Agent Management

Add a new agent to an existing device

You may require adding a different agent to a device already backed up in FAB. To do so simply follow the agent installation procedure described in section **FAB Deployment / Agent installation**. Installing a new FAB agent has no impact on any already existing ones.

Remove an agent from an existing device

If you wish to remove a FAB agent from a device, you only need to uninstall it.

- Connect to the FAB Backup console and go to the Administration / Servers section
- Find the device for which you wish to add a remove agent and click on its name

Environment							Needs attentio	n	
FILE SERVERS	NAS FILE	RS DATABASE	SERVERS	VMs XXX		CLOUD APPS XXX	× XXX * SERVERS	► XXX JOBS	
Servers						Q, Search	Add gateway	Add server 🔻	۵
Name †		Agent	:	Version	: os		Update status	Actions	8
		Agent type		Agent version	OS ver	rsion	Agent status	\odot	^

• Click on the More actions button in the top right corner



and Uninstall Software

• Select the correct agent to remove in the select menu and click on ok

Uninstall software		×
Select the package(s) to uninstall	Click to select	-
	✓ Select all × Select none	e Reset
	search	×
	File System	
	File System Core	

Then click on uninstall

<u>Note</u>: All backups made with an agent will **not be deleted** after uninstalling this agent. Recovery points will remain available during the whole backup retention period.

However, restoring to a different location will be required, as the source agent will not be available anymore.

Update an Agent

It is not required of you to organize your agents updates.

Those are pushed automatically, on a weekly basis (on Sundays), by the FAB infrastructure directly.

However, you still have the possibility to follow up your FAB protection agents update status from the FAB Backup console, Check the agents' status in the Administration / Servers section:

Servers						A00	server +	Add gateway Q ₄ Search	
Nome	туре	Configured	Version	05	Update status	Backup	Restore	Actions	
100 100	Windows File System	1	11 SP14 HPK5	Windows Server 2016 Standard	Needs update	Backup	Restore	Θ	

If you require to update a deployed agent yourself:

- Connect to the FAB Backup console, and go to the Administration / Servers section.
- Select the required agent to update and click on the More actions button

Servers						Add	server▼	Add gateway	Q Search	
Name	Туре	Configured	Version	OS	Update status	Backup	Restore	Actions		=
ecxxxxx	Windows File System	~	11 SP14 HPK5	Windows Server 2016 Standard	Needs update	Backup	Restore			
ecxxxxx	Windows File System	~	11 SP14 HPK7+	Windows Server 2016 Standard	Up to date	Backup	Restore	-		
ecxxxxx	Windows File System	~	11 SP14 HPK7+	Windows Server 2016 Standard	Up to date	Backup	Restore	-		

Click on Update software



• Check the Reboot if required checkbox if you will, and Click on Yes to finalize

Confirm software update	×
Are you sure you want to update the software for ecs-o	lemo ?
No	Yes

• Click on View job details for further details

	Confirm software update	×
	Job started successfully - Job IIxxxxx0 View job details	ОК
In the active jobs you car	n find the installation status :	
XXXXX	Install Updates XXXXXX Ir	50%

The update job should take a few minutes

Backups Configuration

Backup Definitions

In order to run, a backup must be defined specific parameters:

- Backup Plan:
 - o Schedule
 - o Storage location
 - o Data retention
- Subclient:
 - o Content
 - o Exclusions and/or Exceptions

Note: All plans share the following schedule policy:

- Daily incremental backups on weekdays in the backup window: 8PM to 8AM GMT+1
- Weekly Full backups during the weekend
- Database backup logs every 4 hours

FAB offers various Backup levels used depending on the scenario:

- <u>Full:</u> A Full backup includes everything defined in the backup content of the backed up Subclient. The first backup of a subclient is always a Full backup.
- <u>Synthetic Full:</u> A Full backup built on the backend with all differential/incremental backups since the last Full backup. A synthetic Full does not require interactions with the FAB agent and has no impact on the backed up device. However, a synthetic full backup does not include the files modified since the last backup.
- Incremental: An incremental backup includes every data modified since the last Full or Incremental backup.
- <u>Differential:</u> A differential backup includes every data modified since the last Full backup only.
- <u>Transaction Log:</u> Only for DB agents, the transaction log is the DB backup log. It includes all committed and uncommitted transactions. A new DB log file is generated.

In FAB, Backups are presented in Backup sets for a type of agent, allowing the association of Backup Plans with Subclients on various configurations for each agent and each device.

- A protected device may get several agents (File System, Database, Apps)
- Each agent may contain several backup sets
- Each backup set may associate various subclients (content, exclusions and possible exceptions) with backup Plans (schedule & storage policies)

Note: Backup Plans are pre-configured in FAB

Such can be represented the following way:



Add /modify a backup set

By design, when adding a new FS agent to your FAB organization, a default Backup set is created containing a single Default subclient, and associating it with the default Plan set on your Organization.

Such allows every new FS agents to backup every file on your device without any specific configuration to bring. But these default configurations (backup set and subclient) may be modified as you see fit, or you may add other subclients to your backup set in order to comply with your Company protection strategy.

To add/edit a backup set:

<u>Note</u> : Make sure you have	e selected your Company (see
Dashbo	pard section)

- Connect to the FAB Backup console, Administration / Servers section:
- Select the device for which you wish to modify the backup:

Servers		Add server + Add gateway							
Name	Туре	Configured	Version	OS	Update status	Backup	Restore	Actions	=
****	Windows File System	7	11 SP14 HPKS	Windows Server 2016 Standard	Needs update	Backup	Restore	Θ	
xxxxxx	Windows File System	×	11 SP14 HPK7+	Windows Server 2016 Standard	Up to date	Backup	Restore	Θ	
XXXXXX	Windows File System	×.	11 SP14 HPN7+	Windows Server 2016 Standard	Up to date	Backup	Restore	Θ	

• Select the desired agent type for this device (File System, Database, Apps)

Agents		
Type =	Configured	Install date
File System	~	Oct 17, 2018 3:58:11 PM

• In the top right corner, click on Add backup set to add one, or click on the existing backup set to edit it



• For a new backup set, choose a name, select the backup Plan to associate and click on OK

ordep set name	new backup
Sai .	click to select
Vark this as default backupset	FE-UNIVERSAL-14days-RARE / AVISTEREA
	PE-UNIVERSAL-160-Jays-FARE
	FE-UNIVERSAL-TEEdays-RARE + AN STERD.
	PD-UNIVERSAL-ODdays-PARIS
	FE DADLES AL RECEIPT PARS & AVAILABLE
	PE-UNIVERSAL SEE Augu-PARE
	FE UNIVERSAL SESSION PARE + AMSTERD.
	FD-UNIVERSAL-7days-PARIS
	FE-UNIVERSAL-7289/PARIS + AMSTERDAM
	FF-UNIVERSAL-RECEY/R-EARS
	FE UNIVERSAL Stickys TRADS + AVAILABLE T

For editing an existing backup set, click on edit, to define its backup Plan, select the backup Plan to associate and click on v



Note: Depending on the agent, adding a backup set may automatically create a Default subclient

Activity disabling

If required the any server backup / restore activity can be disabled either temporarily or till the time you enable back the activity manually.

To disable/enable a server activity:

- Connect to the FAB Backup console, Administration / Servers section:
- Select the device for which you wish to modify the activity:

Servers						Add	l server▼ Adi	I gateway	
Name	Туре	Configured	Version	05	Update status	Backup	Restore	Actions	
JXXXXXX	Windows File System	×	11 SP14 HPK5	Windows Server 2016 Standard	Needs update	Backup	Restore	Θ	
1XXXXXXX	Windows File System	×	11 SP14 HPK7+	Windows Server 2016 Standard	Up to date	Backup	Restore	Θ	
txxxxxx	Windows File System	4	11 SP14 HPK7+	Windows Server 2016 Standard	Up to date	Backup	Restore	Θ	
Cornigu	iation		Overvier	w Configurat	tion				
		_							
		Sen	rers /						
		XXX	XXXX						

• Slide toggle bar to disable the Data backup or Data restore.

Overview	Configuration				
Servers /					
XXXXXX				View job	is Generate package A
					1
Security		Edik	Activit	ty control	
Associations	Owners Permissions		Data bac	tup 🗨	
No associations de	fined on this object		Data tero	Trable/	U sable II ata hacimp

• Click Enable after a delay to auto enable backup/restore after certain duration, choose the desired delay period or create custom.

Overview	Configuration			
Servers / XXXXXX				View jobs Generate package
Security	Owners Permissions	Edit	Activity control	
No associations do	fined on this object		Daba restore	Never 1 hours
Privacy Prevent admin acc	ess to user data		Administration Manage Windows 05 updates Manage Microsoft SQL Server updates	4 hours 8 hours 12 hours 1 day
				Custom

Subclient management

In order to modify a backup content, add or remove exclusions, create file exclusion exceptions, or modify a Backup Plan to a given set of files, you may add or edit subclients:

- Connect to the FAB Backup console, Administration / Servers section:
- Select the device for which you wish to modify the backup:

	Servers								Add server Add gateway Q, been			
~	Name	Туре	Configured	Version	05	Update status	Backup	Restore	Actions	=		
	xxx	Windows File System	2	11 SP14 HPK5	Windows Server 2016 Standard	Needs update	Backup	Restore	©.			
	MXXXX	Windows File System	×	11 SP14 HPK7+	Windows Server 2016 Standard	Up to date	Backup	Restore	Θ			
	XXXXXX	Windows File System	7	11 SP14 HPK7+	Windows Server 2016 Standard	Up to date	Backup	Restore	Θ			

• Select the desired agent type for this device (File System, Database, Apps)

Agents		
Type =	Configured	install date
File System	4	Oct 17, 2018 3:58:11 PM

• Click on the backup set to edit

Backup sets				Add backup set	Q, Search
Type *	Restore	Plan	Actions		
defaultBackupSet	Restore	FE-UNIVERSAL-7days-PARIS + AMSTERDAM			

• Select the subclient to edit, or click on Add subclient in the top right corner, to create a new one

Subclients							
Type † E	Last backup time	Beckup size	Beckup content	Excluded	:	Actions	5
default	Feb 14, 2:42 AM	80.72 GB	C-All contents	No exclude content		Θ	
			Or				
defaultBacku	upSet		Add subclient Restore histo	ry Backup history	Q Search for files		

• If creation, inform a Subclient name, determine the Backup Plan configuration required (disabled to keep the backup set default config), define the Content and possible Exclusions and/or Exceptions, and click on Save as follows

	Add subclient		×
	Subclient name		
	Backup configurati	ion	
	Use backup plan	1	
	Plan	FE-SERVER-14Day-4Week-3Month-PARIS	
	Backup content		
	Content Exclusion	ns Exceptions	
	Enter custom path		÷
		Browse Impersonate	user
	Files and folders		
	Add files and folders to	o the content	
	Backup system state		
		Cancel Saw	
			_
e: You may ed Itent frame (in f	lit a subclient content the subclient detail sh	(+ exceptions and exclusions) by clicki neet)	ng on Edit in its
C	Content		Edit
١	- All contents		
C	System state]		

Application backup Configuration

Microsoft Exchange (DAG) Backup Configuration

Prerequisites:

The FAB Exchange agent is installed on all nodes

- In the FAB Backup console, go to the Solutions / Applications / Exchange section
- Click on Add and then select Exchange Database

Filter nevigation	Exchange					Restore : Disable Cha	Adr 0
🕱 Guided setup	Name 1	E Type	E Mailboxes or datab	E Application size	E Lest job run time	I Server plan	Exchange Database Exchange archiving
2 Deshboard		Exchange Database	4	577.74 GB	Nov 5 2019, 2:31:20 AM	FE-SERVER-14Day	Exchange journaling
File servers							SMTP journaling
Leptops							
> Databases							
♥ Applications							
Eschange							

• Provide all required details, then click on Discover and provide input after discovery

Add Exchange Database o			
Server name	Test-Exchange		
Plan	FE-UNIVERSAL-7days-PARIS	-	
AD domain name	XXXXXX		
Username	Administrator		
Password	•••••		
Access node for DAG discov	very		
	XXXXXX	*	
Exchange version	Exchange 2016	*	

Add Exchange Database 🛛 🛛

XXXXXXXX	
FE-UNIVERSAL-7days-PARIS	*
xxxxxxx	
Administrator	
••••••	
xxxxxxxxxxxxx	*
****	-
XXXXXXXXXXXXXX	•
	XXXXXXXX FE-UNIVERSAL-7days-PARIS XXXXXXXX Administrator

- In the DAG servers list, select a DAG with an available member server
- In the Member servers list, select a member server, and then click on OK

Add Mailboxes to backup:

•

- Go to the FAB Backup console, Solutions / Applications / Exchange section
- Click on the Exchange server

Exc	ange						Add 🔻 🌣
	Name † E	Туре і	Mallboxes o	Application s	Last job run time	E Server plan	:
	xxxxxx	Exchange Datab	4	585.83 GB	Feb 16 2020, 8:08:42 PM	FE-SERVER-14	1Day-5Wee 🗍

• In the Subclients section, click on the subclient

Subclients	lbclients		nessages was souchering	3001011
Name 🔺	Last backup time	Last backup size	Actions	=
default	Feb 16, 8:08:42 PM	6.41 GB	Ξ	
In the Content section	, click on Edit			
	Content		Edit	
	Microsoft Information Store	ADAGFEMD0004		
	Microsoft Information Store	VDAGFEMDB002		
	Microsoft Information Store	VDAGFEMDB001		
	Wew more detabases (Total data	bases 4)		

• Select the databases to backup

Sub	Subclient content o				
□ s	how selected	Q Search			
	Database				
	Microsoft Information Store\IXXXXX				
	Microsoft Information StoreVIXXXXX				
	Microsoft Information Store\Ixxxxxx				
	Microsoft Information Store\(XXXXXX				

- Click on Save
- In the Server details section, click on Edit

Server details		Edit
Server selection	Automatic	
DAG options	Backup from passive copy	

• Select Backup from passive copy in the DAG options

Server details	9	×
Server selection) Automatic i Manual	
DAG options	Backup from passive copy Backup from active copy if no passive copy is available Use last activation preference to select passive copy	

- Click on Save
- In the Settings section, enable Optimize for message level recovery

Settings	Edit
Maximum streams that can be used 2	
Optimize for message level recovery	

(VSA) Virtualization Client backup Configuration

(VSA) VMware Backup Configuration

Prerequisites:

- This Access Node (on which the FAB VSA agent is installed) must be able to reach the vCenter on port 443 and all required ESXi servers on ports 443 and 902
- The VMs to protect have up-to-date VM tools installed
- In the FAB Backup console, go to the Solutions / Virtualization section
- Click on Add hypervisor in the Hypervisors tab

	_				
Filter navigation	Hypervisors VM gr	oups Virtual machines			Add hypervisor
Dashboard	Hypervisors (All •	Ð			¢
Solutions	Name †	1	Vendor	1	Actions :
Virtualization	T XXXXXX		VMware vCenter		Θ
File servers					
Databases					

• In the Add hypervisor window, from the drop down list in Select vendor click VMware vCenter.

Add hypervisor	0	
Select vendor	Click to select	-
Hostname / ID address	bearch	×
	OpenStack	
Hypervisor name	Oracle Cloud Classic	
Usemame	Oracle Cloud Infrastructure	
	Oracle VM	
Password	Red Hat OpenShift	
	Red Hat Virtualization	
	WWware vCenter	
	vCloud Director	

Provide the vCenter Hostname, Hypervisor display name (a display name, can be anything), Username and Password, and Access node (server with FAB VSA agent installed would be automatically selected).

Add hypervisor	θ	×
Select vendor	VMware vCenter	*
Vcenter server name	XXXXXX	
Hypervisor display name	XXXXXX	
Username		
Password		
Access node	XXXXXX	*

• Go to the VM groups menu, and click on Add VM group

	_						· · · · · ·
Hiter navigation	Hypervisors	VM groups	Virtual machines				Add VM group
t Dashboard	VM groups (AI					Q, Scard	٥
Solutions	Name 1	÷	Vendor	E Hypervisor	E Plan	1	Actions E
Virtualization	XXXXXX		VMware	XXXXXX	XXXXXX	1	Θ

 In the Add VM group window, choose the Hypervisor that was added in previous steps. Provide a Name (any name). In the Browse and select VMs there are several options to help you select your VMs to protect from your VMware infrastructure. Check the boxes next the the VMs to protect

Add VM group			×
Unerstand	VYYYYY		
Hypervisors	1		*
Name			
Browse and select VMs	Hosts and clusters		*
	Q Search VMs		
V 🗌 📑 BKPLABDatacente	er	Select all	Clear all
▶ □ ∰BKPLABCluster			
Backup configuratio	n		
Use backup plan			
Plan	XXXXXX		*
		Cancel	Save

• Select the Plan to associate the this backup from the dropdown list based upon the region where your server / vCenter is located

<u>Note</u>: The Plan will determine where to store your data. It is recommended to take extra attention in determining the data location (see Backup plans description section) as it may cause degraded performances

• Click on Save

(VSA) VM application consistency setup

VMware tool is by default used for taking application consistent backup, but to provide granular application level recovery this needs to be modified.

- In the FAB Backup console, go to the Solutions / Applications / Virtualization section
- Go to the VM groups menu, and click on the configured VM group (see VMware backup Configuration section for configuring it)
- then go to the Configuration tab and click on edit under the Settings frame

Settings		Edit
Use changed block tracking	••	
Auto detect VM Owner		
No. of readers	5	
Virtual machine backup type	File system and application consistent	
Transport mode for VMware	Auto	
Datastore freespace required	10%	

• In the Edit settings window...

Edit settings	
No. of readers 5	
Virtual machine backup type	
 Application Aware Uses in guest application plug-ins to easist the Virtual Server Agent quiescing an granular application level recoverability. 	d providing
Rie system and application consistent (Needs VMWare Tools installed) Uses VMware tools to perform a quesced backup of the file system and applica-	tions.
 Crash consistent Uses Where software soapshot to allow a basic backup of the virtual machine. 	
Transport mode for VMware Auto	*
Datastore freespace check	
Datastore freespace required 10 😰 %	

•Select the appropriate option:

Application Aware: It quiesces the application, flushes its memory, and completes pending writes, then creates a software snapshot of application data. After the software snapshot is created, the application resumes



Selecting this option requires to set guest credentials by clicking on the key symbol

Edit settings	Set guest credentials ×	
No. of readers 5	Guest Credentials Usemane	L
Virtual machine backup type	Password Confirm password	\geq
Opposition of the end of the second secon	Cancel Save	

Database backup Configuration

Oracle Backup Configuration

<u>Prerequisite</u>: The FAB Oracle agent has been installed on the Oracle server to protect as instructed in section Oracle agent installation

• In the FAB Backup console, go to the Solutions / Databases / DB Instances section and Click on the DB instance (the instance is automatically discovered once the agent correctly installed, if not, follow the instructions detailed 3 steps here below)

Instances	D	atabases	Inst	ant clones						
Instances (All		O Prote	cted	1 Unprotected		0 Excl	uded			
Name	÷	Server 1	÷	Database engi	ł	Status	1	Last backup time	:	Size
		xxxxxx		Oracle		Ready		Never backed up		0 B

- Click on edit under the General section in the Overview page
- Select the Backup Plan (see the Backup Plans description section) to use for the backup of this Oracle environment, and provide the connection credentials, then click on Save

Modify instance deta	ils	×
Oracle SID		
Plan	FE-UNIVERSAL-7days-PARIS	*
Oracle home	/u01/app/oracle/product/12.2/db	Browse
Connect strikg		
rman / Password	e e	
Use catalog connect		
Advanced		•
OS user name	oracle	
TNS_ADMIN folder	(Optional)	Browse

If the Instance is not automatically discovered, click on Add instance and provide the details.

New orac	le instance	/	×
Server name			*
Oracle SID			
Plan		FE-UNIVERSAL-7days-PARIS	-
Oracle home		/u01/app/oracle/product/12.2/db	Browse
Connect string			
rman	/ ••••	@ 	
Use catalo	g connect		

MS SQL Backup Configuration

Prerequisites:
The FAB MS-SQL agent is installed on node

• Ensure that your server is discovered in the FAB Backup console: Go to the Solutions / Databases / SQL servers section:

Filter navigation	Instances	Databas	ses Inst	ant c	lones								A	dd Instance	\dd Server	ΘΘ
Dashboard	Instances													Q, Search		۰
Solutions	Name 1	1	Version	:	Server	1	Status	:	Number Of	:	SLA	:	Plan	1	Actions	:
File servers	xxxx		10.0.1600.22		XXXX		Ready		0		Misser	i	FE-UNIV	ERSAL-7days-PA	Ξ)
 Databases 																
SOL Server																
Exchange																

• If the instance is not detected after the installation, or if the user account for the SQL service is not the local system account, then, in the Solutions / Databases / SQL Server section, click on "Add Instance" :

Instances	Databases	Instant clones	Add Instance	Add Server
				•

• Select the Server and the SQL instance, define the credentials required, and click on the Add button:



Hyperscalers applications protection configuration

Exchange Online (Microsoft 365 mailbox) Configuration

Prerequisites:

- Connection through Azure Active Directory exclusively
- Exchange Online service account with global administrator role
- Multi-Factor Authentication must be disabled on your O365 environment
- In the FAB Backup console, go to the Solutions / Office 365 section
- Click on Add Office 365 App

Office 365 apps

- In the Add Office 365 app window, provide the application Name (pseudo name to identify this Exchange online application with all its mailboxes)
- It's mandatory to select the **FE-O365-Server-Plan** plan from the drop down list in Server plan
- Input Exchange Online Administrator name and Password, Once done Click on Create Azure AD app

Add Office 365 app

Exchange Or	line	
Service type	Exchange Online	*
Name	teller app name	
Server plan	Cick II WHAT	
Infrastructure settings		>
Exchange connection s	ettings	
Region	Delauk (Gistal Service)	-
Giobal Administrator	usen#account.onmlorosoft.com or usen#domain.com	
Password	Famword	
	Crewte Arsine Ald app	or Configure connection details menually
		Sinc

A Microsoft Azure authentication window pops up. Enter your admin credentials to authorize the app.

arod-cloud-ocb.orange-bu	sness.com/adminiconsole/#/createOm ···· @ 1	🍓 Sign in to your account - Mozilla Firefox (Private Browsing) 🦳 🗆	×
nd more		🛛 🌢 https://login.microsoftonline.com/d67d31b6-7f37-4384- ***	Ξ
Name	Demoz-365	Microsoft Sign in	
Server plan	FE-O365-Schedule-PLan	Email, phone, or Skype	
Infrastructure se	ttings infrastructure settings will be inherited from	Can't access your account? Sign-in options	
Exchange conne	ction settings	Next	
Region	Default (Global Service)		
Global Administrator	xxxxxx@xxxxxxxxx		
Azure AD app	fed7e34f-b7cd-4e8d-895b-e4fbef1698b2		
	Creating Azure AD app 🗸		
	Creating Exchange Online service account 🗸		
	Syncing app with Azure AD 🖌		
	Grant permissions to the app Authorize now		

Click on Accept and then Save the Exchange Online wizard

		Microsoft			
iame.	Demoz-365		Service type	Exchange-Online	-
		200001@200000X_20000X			
erver plan	FE-0365-Schedule-PLan	Permissions requested			
		Review for your organization	Name	Demo2-365	
nfrastructure sett	Intest Information and the information	CommvaultAutoCreated20201110T075044668Z xxxxxx20xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Server plan	FE-0365-Schedule-PLan	•
		This application is not published by Microsoft.			
		This app would like to:	Infrastructure setting	5. Infrastructure antings will be infrariated from the annue plan.	>
xchange connect	tion settings	Read directory data			
		 Read all users' full profiles 	Exchange connection	settings	
legion	Default (Global Service)	Wead and write files in all site collections	Exchange connectors	SCIURS.	
	the second se	Read and write all OneNote notebooks	Regiun	Default (Global Service)	
Jobal Administrator	200004@2000001200004	 Sign in and read user profile 	Global Administrator	adminisck@office365.objas.fr	
zure AD app	fed7e34f-b7cd-4e8d-895b-e4fbef1698b2	If you accept, this app will get access to the specified resources for	Amore All ann	feet 7er 54 h 7-d dalld 20% addset 50% 7	
	Greating Amere All app	all users in your organization. No one else will be prompted to review these permissions.	increase increasely	Desting Action All and All	
	Greating Exchange Online service account	Accepting these permissions means that you allow this app to use your data as specified in their terms of service and privacy		Orending Exchange Galine service account 🗸	
	Summing and with Knuth AD	statement. You can change these permissions a https://mjapps.microsoft.com. Show details		Synding app with Asuna AD 🗸	
	Strend able microapers and	Does this app look suspicious? Report it here		Appi parmita ma granizad 🗸	

• An new **app** in Solutions / Office 365 and a new **server resource** in Administration / Servers are now created with the name of the Exchange client you specified in the wizard

User Mailbox protection (sub client) configuration

Once the Exchange online client is created, each user mailbox (or Azure group) needs to be associated with a subclient and an Exchange plan assigned.

• In the FAB Backup console, Solutions / Office 365 section, select the MS 365 App name of the mailbox to protect, click on the App name

Office 365 apps					
App name	:	Service type	:	Application Size	:
365-demo		Exchange Online		0 B	

• Select the Mailboxes section (top right corner) and Click Add Mailbox

it Dathboard	Office 365 appe /			Nelsono	Auto Discover Associations
B Solutions	365-demo			satore Runjeta +	i Add Malbox 🗘
File servers	Neme	E SM/TP address	E Plan	E Maliboxitype E Processed und	Nellocidos E

• In the Add Mailbox window, Select the user mailboxes and Choose the desired Exchange plan accordingly then click on Save.

Exchar	ge plan	Select	an exchange mailbox plan	
		Select	an exchange mailbox plan	
Cala	et mailhavaa	FE-03	65-1095days-PARIS	
Sele	ct maliboxes	FE-03	65-180days-PARIS	
	Display pages	FE-03	65-365days-PARIS	
	Display name	FE-03	65-90days-PARIS	
• 🔽	xxxxxxxxx xxxxxx		xxxxxxx@xxxxx.xxxxx	
	Demo FAB		demofab@ <mark>xxxxx.xxxxx</mark>	

<u>Note</u>: All mailboxes configured on the same plan will share the same backup configuration (backup retention period and location). For using different configurations, you must use different plans on the mailboxes.

• (Optional) AD Groups can be added so that any new user's mailbox can be automatically backed up with the retention set on the group.

In the FAB Backup console, Solutions / Office 365 click on the App name

	Office 365 apps			
	App name E	Service type	:	Application Size
	* 365-demo	Exchange Online		0.8
• (Click on Auto Discover Association	ons		
Office 385 apps 1				Mellooxes Auto Discover Associations
365-demo			Restore	Run jobs * 🕴 🛛 Add Malibox 🌣

Click on Add AD group

365-demo Nume 464 40 goog 466 40 goog <th>0 Yice 385 epps /</th> <th></th> <th></th> <th>Na Iboxes</th> <th>Auto Discover Associations</th>	0 Yice 385 epps /			Na Iboxes	Auto Discover Associations
Image: Second	365-demo			Run Jobs # - Manage	Add AD group 🏼 🏚
Image: All Opension of Comparison Uner Nalloox No plan is essociated Image: All Opension of Comparison All Opension of Comparison No plan is essociated	0	Name	Тури	Plan	:
A 10385 Group Maribonas A10385 Groups No plan is associated		ATUsers	User Mailbox	No plan is associated	
	•	AT0365 Group Malboxes	All 0565 Groups	No plan is associated	
AIPuble Folders ALL POBLE FOLDERS No plan to associated		All Public Folders	ALL PUBLIC FOLDERS	No plan is associated	

In the Add AD group window Select the groups sharing the same backup retention requirements and Choose the desired Exchange plan accordingly, then click on Save

Add A	AD group			×
Exchange	e plan	Select an exchange mailbox p	lan	•
Selec	t AD groups	Select an exchange mailbox plan FE-0365-1095days-PARIS FE-0365-180days-PARIS	1	
	AD group name	FE-0365-365days-PARIS FE-0365-90days-PARIS		
	Documents			^
ĥ	OrangeESC SAVI 2			
			Cancel	Save

Disable User Mailbox backup



Select the **user** mailbox to disable and click : then select Manage

Office 365	spps /								Mailboxes	Aut	to Dis	cover Associ	ations
365-d	emo								Restore Run Jobs *	ł	Ad	id Mailbox	¢
	Name	÷	SMTP øddress	1	Plan	÷	Malbox type	1	Processed until	Mana	ge.	ze	÷
	Franck		X0000000X @ X000000X.X0000000X		FE-0365-180days-PARIS		UserMailbox		Nov 11 2020, 1:31:05 AM	040.4	7 MD		

• In the Edit association window, enable the Disable Archiving option and then click Save

Searc	h servers, groups and more	Edit association		×		þ	OC00001743 v
Exc	hange	Exchange plan	FE-0365-180days-PARIS	÷			(See
Office 365	apps /	Display name	Franck			Mailboxes	Auto Disco
365-d	emo	SMTP address	franck. poposi@popopopol. spopos			Restore Run Jobs *	i Add I
	Name I	Disable Archiving			Mailbox type	Processed until	Mailbox size
	Franck	Enable auto discover			UserMallbox	Nov 11 2020, 1:31:05 AM	846.47 MB
	Marc		Cascal	See	UserMailbox	Nov 11 2020, 1:31:05 AM	21.95 MB
			Calice	3916	GroupMailbox	Nov 11 2020, 1:31:05 AM	126.43 KB

Delete Exchange Online Mailbox Client

Note: Deleting the MS 365 App removes within 24hrs all the mailbox backups currently in retention for that app

To remove the whole MS 365 Exchange online application:

- In the FAB Backup console, Administration / Servers section,
- Click Action
 against the Exchange online App / client name and click Retire

Servers						Q Search	Add	i server 🔻	۵
Name † E	Agent		8	Version 1	05	:	Update stall	E Actions	1
365-demo	Exchange Mailbox, Office 565			11	Windows		Not applicable	: 0	1
ets-d3db	Windows File System			11 SP16 HPKS5	Windows 5	erver 2012	Not applicable	Restore Beck up	
								Viewjob	5
								Reare	
								Check re	ediness
								Send log	8
lick Yes when as	ked to confirm data	deletion.							
🗹 Confirm re	tire client	×							
Retire will re If the client I from the dat Do you want	lease licenses and uninstall software las no backup data, then the client is abase. to continue?	on the client. permanently deleted							

Then Click on the Exchange online App / client name, in the client Overview page click on the more action button
 and select Delete.

Overview	Configuration		
serves / 365-demo			View jobs Generate package () Retire
General		Server groups	Check readiness Delete
Server name	365-demo	OCE000	Reconfigure
Host Name	305-demo		Send logs
Manalan			

Confirm the Exchange online App / client deletion by clicking Yes

Confirm delete client		×
Are you sure you want to delete 365-demo ?		/
	No	Yes

On-Demand backup & restore

Backups and Restore operations may be processed manually. This chapter describes you how, for each case.

On-Demand backups

On-Demand Backup of Files & Folders

• In the FAB Backup console, Solutions / File Servers section, select the server you wish to back up and click on the Actions button

:	Update status	÷	Actions :
2016 Stand	Needs update		Update software
2016 Stand	Needs update		Uninstall software Release license
erprise	Needs update		Check readiness
			Send logs
			Restore
			Backup
			Jobs
			Add software

- Click on backup
- Select the backup level (see **backup definition** section) and press Ok



• if you need more details, click on the view job details link and then on the job ID



: Server ecs-octidemo-w ^{XXXXXXX}	i Agent type	E Subclient	i Server group i Size i	Start 1 Flag	Q, Search	Auto update off	
ES-ocbdemo-w ^{XXXXXX}	j Agent type	E Subclient	1 Server group 1 Size 1	Start 1 Flan			
ecs-ocbdemo-wi ^{XXXXXX}	File Contemp		• • • • • • • •	point I coop	sed i Progress	6 6	1
	me system	default	OCB0001743. OI ^{XXXXXX}	4pr 4, 2:27:07 PM 52 s	ec		*
							Kill 5
			Job details				
Backup			Total number of files		280		
Incremental			Agent		Windows File System		
Backup			Backup set		defaultBackupSet		
Waiting			Media agent		pbaasfexxxxx		
25%			Data transferred on network		N/A		
ecs-ocbe ^{XXXXXX}			Transfer time		0 sec		
default			Average throughput		N/A		
166			System state		No		
Apr 4, 2019 2:27:07 PM							
Interactive							
Unavailable							
ate Program	Computer	Event o	ode Description				
	Backup Incremental Backup Watting 25% ecs-ocbr ^{XXXXX} default 166 Apr 4, 2019 2:27:07 PM Interactive Unavailable	Backup Incremental Backup Wating 25% ec3-octx ^{XXXXX} default 166 Apr 4, 2019 2:27:07 PM Interactive Unaveilable	Backup Incremental Backup Wating 25% ecs-ockrXXXX default 166 Apr 4, 2019 2:27:07 PM Interactive Unavailable ste Program Computer Event of	Backup Total number of files Incremental Backup Wating Backup set 25% Backup set ecs-och Statume default Backup set 106 Apr 4, 2019 2:27:07 PM Interactive Unavailable ate Program Computer Event code Description	Backup Incremental Backup Mating 25% ecs-cdx*XXXX defaut 16 Apr 4, 2019 22707 PM Interactive Unavailable at Program Computer Event code Description	Backup Incremental Backup Mating 296 296 ec-oche 296 ec-oche 296 ec-oche defauit defauit 106 April 2019 227:07 PM Interactive Unavailable at Program Computer Event col Description	Backup Incremental Backup Backup Backup Backup Backup 296 297 296 296 297 296 296 297 296 297 296 297 298 298 298 298 299 299 291 291 291 291 <t< td=""></t<>

On-Demand Backup of Microsoft Exchange Database

To perform a manual backup of your Exchange Database (DAG):

• In the FAB Backup console, under the Solutions / Applications / Exchange section, click on the Exchange Database you wish to manually backup

Exch	nange						Add 🔹 🌣
	Name †	Турс і	Mallboxes o	Application s	Last Job run time	Server plan	:
	XXXXXX	Exchange Datab	4	585.83 GB	Feb 16 2020, 8:08:42 PM	FE-SERVER-14	Day-5Wee 🤇

• In the Subclients section, find the subclient you wish to backup, and click on the action

	Subclients		Restore offline DB messages	Add subclient
	Name 🔺	Last backup time	Last backup size	Actions
	default	Feb 16, 8:08:42 PM	6.41 GB	Θ
Click o	n Backup			

Backup
Backup history
Restore database
Restore history
Restore messages

• Select the backup level (see **Backup Definition** section) you wish to run then press Ok

Backup options	
Backup level	
O Full	
Incremental	

• If you require further details, click on the View job details link

\odot	Backup started for job {0} 74582 View job details	×

On-Demand Backup of Virtual Machines (using VSA)

VM Groups Backup

To perform a manual backup of your VMs (groups):

• In the FAB Backup console, under the Solutions / Virtualization section, click on the VM groups tab, from there select the group you wish to manually backup and click on the Actions button and click on Back up



• Select the required backup level (see the **Backup Definitions** section) and press Ok

Select backup level
🔿 Full
Incremental
Synthetic full
When the job completes, notify me via email

• For further details, click on the view job details link and then on the job ID

Individual VM Backup

To perform a manual backup of individual VM:

• In the FAB Backup console, under the Solutions / Virtualization section, click on the Virtual machines tab, from there select the VM you wish to manually backup and click on its associated Actions button



- Click on Back up
- Select the backup level (see the **Backup Definitions** section) and press Ok



• For further details, click on the view job details link and then on the job ID

On-Demand Backup of Databases

On-Demand Backup of SQL servers Instances

- In the FAB Backup console, Solutions / Databases / SQL Server section
- Find the required DB Instance to backup and click on the Actions button

Instances	Databa	ses	Instant c	lones								Add Instan	ce Add	Server
Instances												Q, Search		٠
Name 1		Version		Server	Status	÷	Number Of	:	SLA	1	Plan	:	Actions	:
FIXXXXXX		14.0.1000.1	169	XXXXXX	Ready		10		Met		FE-SERVER-14	1Day-5Wee	Θ	^
													\sim	

Click on Backup



• Select the required backup level (see **backup definition** section) and press OK

Select backup level	×
Backup level	
Transaction log	
 Differential 	

<u>Note</u>:

A transaction log backup operation backs up the transaction logs that contain records of all the committed and uncommitted transactions.

- Dirty pages are excluded during a transaction log backup operation
- This backup is consistent and contains only the new changes since the last full or transaction log backup
- After a database failure, you can run the transaction log backup to recover data to the point of failure
- You cannot perform a point-in-time restore from a full or a differential backup alone
- During a transaction log restore operation, if dirty pages are included, the completed transaction rolls forward. Any incomplete transaction that occurs during the time of the transaction log backup rolls back during the transaction log restore operation
- if you require further details, click on View job details link

					Backup star View job det	ted for Jol tails	o 74	589				×								
Activ	ve jobs 🔊	•													1	Q, Search		Auto update o	off E	1
	Job Id 4	1	Operation	i Server	1	Agent type	1	Subclient	1	Server group	1	Size	1	Start	Elaps	ed	1 Prop	gress	I	
	74589		Backup	XXXXXX		SQL Server		default		XXXXXX		08		Apr 4, 2:47:03 PM	13 se	C	100	2%		

itus -	Waiting	Media agent	XXXXXX	
BIS-	Waiting	 Media agent	15 00 MB	
urce client computer	XXXXXX	Data transferred on network	1.08 MB	
bchent	default	Transfer time	13 sec	
ority	166	Average throughput	4.293119 GB/hr	
et time	Apr 4, 2019 2:47:03 PM			
started from	Interactive			
cryption enabled	No			

Note: You may control the job from this page, in the top right corner

On-Demand Backup of Oracle Instance

To perform a manual backup of your Oracle Instance:

In the FAB Backup console, under the Solutions / Databases / DB Instances section, click on the Database Instance to manually backup

Instances	Databases	Instant clones			Ad	d instance Add serv
Instances 📶	• 1 Prote	cted 0 Unprotected 0	Excluded	Backup R	estore I Q	Search
Name	i Server †	i Database engi i Stat	us i Last backup	time i Size	i sla	i Plan
XXXXXX	XXXXXX	Oracle Real	dy Jun 12, 2020	2:46:11 PM 5.92 0	iB Met	FE-UNIVERSAL-
In the Subclients	section, select	the subclient you wish	n to backup, ar	nd click on B	ackup	
Subclients		,		Be	ckup Backup his	story Add subclier
Name †		E Latest backup time		E Plan		
ArchiveLog		Jun 12, 2020 2:46:11 PM	1	FE-UNIVE	RSAL-7days-PARIS	
default		Never backed up		FE-UNIVE	RSAL-7days-PARIS	
Select the backur	o level (see the	Backup Definition	section) you wi	sh to run the	n press Ok	
	X	Backup option	าร		·	
		Backwa Jawal				
		Full				
		Incremental				

• For further details, click on the View job details link



On-Demand Backup of Hyperscalers Applications

Exchange Online Mailbox

To perform a manual MS 365 mailbox backup:

• In the FAB Backup console, Solutions / Office 365 section, select the App / Exchange client name

Select the mailbox to back up, click on Run jobs then click Backup	
Office 355 apps /	

365-d	emo								Restore	Run jobs 🔻	-	Add Meilbox
	Name	:	SMTP address	1	Plan	÷	Malbox type	ł	Processed un	Content index	ing	box size
	Frenck		9		FE-0365-180days-PARIS		UserMai box		Nov 11 2020, 1	1:51:05 AM	846	47 MB

- For further details, click on the view job details link and then on the job ID
- (Optional) You may want to run the backup on a whole AD group:

•	In the FAB Back	kup console, Solutions / Offic	e 365 click on the App name	
	Office 365 apps			
	App name	E Service type	Application Size	
	365-demo	Exchange Online	0 B	
•	Click on Auto D	Discover Associations		
Office 385 ep	pa i		Molitocores Auto Discover Associat	ions
365-dei	mo		Restore Run John 🐑 Add Mellbox	\$
365-de	Select the AD g	group you want to backup ar	nd click on Run jobs then Backup Meiteen Astellierer for	¢
365-de • 365-demo	Select the AD g	group you want to backup ar	Add Wellow Add Wellow Add Wellow Melloem Fun jobs then Backup Melloem Add Discover An Fun jobs Menage Add Ad group	¢ ccisto > ¢
365-de • 365-demo	Select the AD g	group you want to backup ar	Add Wellow Add Olick on Run jobs then Backup Wellow Add Dictor An Europe Film Jobs Plan	¢ conietico o ¢
365-de • • • • • • • • • • • • • • • • • • •	Select the AD g	group you want to backup ar ! Type ! ber Nalbox	Add Wellow Add Olick on Run jobs then Backup Weitsen Run jobs Run jobs Run jobs Menage Add AD grau Recup Run Nat asigned	ociatio p (
365-der • 65-demo	Select the AD g	group you want to backup an i Type UserNelbox Al 0355 Groups	Add Wellow Add Olick on Run jobs then Backup Meitoen Meitoen Not ausgred Not ausgred	•
365-der	Select the AD g Select the AD g Name Al Users Al Users Al Deb5 Group Walescers Al Public Folcers	group you want to backup an type type Unser Naiback All 5955 Groups All FUGUC FOLDORS	Add Wellow Add Wellow Add Olick on Run jobs then Backup Wellow Run jobs Run jobs Run jobs Run jobs Run jobs then Backup Add Ad grou Run jobs Run jobs then Backup Add Ad grou Run jobs Run jobs Run jobs then Backup	or excistion p (

• For further details, click on the view job details link and then on the job ID

Mellboxes Auto Discover Associ

Restores

A restore operation is the way to lookup into the backup content and restore Files/Folders, Databases, or Applications at a given Recovery point, determined by the backup runs.

Note: Restores are only possible when backups have run

This chapter develops the Restores within FAB for each possibility offered.

Recovery Point

There are 2 options for restoring data:

- 1- Restore the latest backup (by default)
- 2- Restore to a specific date

"Restore the latest backup" being the default option, the following section is to describe how to select a different point in time; and therefore how to restore to a different date:

During any restore process (detailed in following sections), you will access the Backup content page:

• Develop the Show latest backup menu

Backup content		
	R	Restore Show latest backup
▼ default	default	Show backup as of a specific date
ESystem Statel	Name	Size Show backup for a date range Mor

- o Select the Show backup as of a specific date option if you know the date to restore to
- Select the date and press OK

To tin	ne					
<			April 2019			>
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	01	02	03	04	05	06
07	08	09	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				
02 :	53	PM				

o Select the Show backup for a date range option if you don't know the date to restore to

From time

<			April 2019			>
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	01	02	03	04	05	06
07	08	09	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

02	÷	54	PM

To time

<			April 2019			>
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	01	02	03	04	05	06
07	08	09	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

02 [:] 54 PM

- Select the date range for the restore and press OK
- Then follow the restore process detailed below

Restore Files and Folders

• In the FAB Backup console, Solutions / Servers section, determine the server on which the concerned files/folders were backed up, and click on the actions button

Servers					Add server Add gateway Q_ frame				
Name	Type	Configured	Version	05	Update status	Backup	Restore	Actions	-
erti-derxxxxx	Windows File System	×	11 SP14 HPKS	Windows Server 2016 Standard	Neeth update	Backup	Restore	G	
end-outpxxxxxx	Windows File System	×	11 SP14 HPIC7+	Windows Server 2016 Standard	Up to date	Beckup	Restore	Θ	
FEL-MIT XXXXX	Windows File System	1	11 SP14 HPK7+	Windows Server 2016 Standard	Up to date	Backup	Restore	Θ	

• Click on Restore



The backup content page opens:

- Select the desired recovery point (see chapter "Recovery Point" for further detail on the date & time selection)
- Select the content to restore by checking the required boxes, and click on restore

Backup content	Б	Restore 🕞 Sho	w latest backup	
▼ default	default / C: / Temp	Size	Modified Time	
	Note: You may restore	e a complete folder, or selec	ct each file required	

Select the Restore Options and click on Submit to initiate the Restore
	Restore options		×
	Destination client	XXXXXX	Ŧ
	 Restore data instead of stub Restore to original folder 		
	Destination path		Browse
	 Unconditionally overwrite if it 	already exists	
	Impersonate user		
		Cancel	Submit
<u>Notes</u> :			
•	By default, the "Restore	to original folder" opti	on box is checked
•	Files may be restored to	o a different path or a	a different device by
	choosing the destination	, client and Destinatio	n nath
		visting once by	chocking the box
•			
	Unconditionally overwrit	e if it already exists"	

• If you require further details, click on the View jobs link



Restore a Microsoft Exchange Database (DAG)

In the FAB Backup console, Solutions / Applications / Exchange section, click on the Exchange Database you wish to
restore

Exch	ange									able Client Ad	id 🔻	۵
	Name †	1	Туре	1	Mailboxes o	ł	Application s	:	Last job run time	Server plan		
	XXXXXX		Exchange Datab		4		585.83 GB		Feb 16 2020, 8:08:42 PM	FE-SERVER-14Day	-SWee.	0

• In the Subclients section, click on the subclient to restore

Cubalianta		Restore offline DB messages	Add subclient	Q Search
Subclients				
Name 🔺	Last backup time	Last backup size	Actions	=
XXXXXX	Feb 16, 8:08:42 PM	6.41 GB	\odot	

• In the Subclient page, click on Restore database

XXXXXX	Restore messages	Restore database	Backup history	Restore history
Summary	Plan			Edit

- In the Backup content section, select the desired recovery point (see chapter "Recovery Point" for further detail on the date & time selection)
- Then select the content to restore by checking the corresponding box and click on Restore

Backup content		
	Remove	Showing letter i bouloop 🔻
T delauli	default / Microsoft Information Stone	
 Microsoft information Store 	E Name	Stat
		150.25 GB
	XXXXXX	187.25 G8
		120.26.60

The restore job starts

• If you require further details, click on the View jobs link



Restore Virtual Machines

Single VM Restore

To perform a manual restore of a single VM:

- In the FAB Backup console, under the Solutions / Virtualization section, click on the Virtual machines tab
- from there click on the VM name you wish to restore
- Select the recovery point amongst the available backup occurrences ready for restore and then click Restore

XXX							
Overview Configuration	חי						Back up n
ummary		Decen	anunalat				
ypendsor	XXXXXX	Kecov	And 2020				
Igroup	XXXXXX	San	lion	Tue	Wed	The	Fri
	10.1.239.2				-		
	Microsoft Windows Server 2012 (54-bit)				01	02	as.
	70 GB	05	06	07	08	66	10
	FC-Test-Universal-7D-14DWARM	12	13	14	15	16	17
atus	Protected	19	20	21	22	23	24
recovery point	Apr 9, 2020 12:30:05 AM	28	27	28	29	30	
st recovery point	Apr 1, 2020 11:15:52 AM						

In the Select restore type window, click on the required restore type
 Each option is described below to guide you in the selection process:

Sele	Select restore type						
	Guest files Restore files from the guest virtual machine to the file system of the access node or other client.						
e	Virtual machine files Restore virtual machine configuration and VMDK files to the file system of the access node.						
۲	Attach disk to existing VM Restore individual VMDK files to the datastore of an ESK host and attach the VMDK to an existing virtual machine.						
	Full virtual machine Restore complete virtual machines directly to the datastore of host.						
*	Live recovery Recover and start a virtual machine from backup while a full restore is in progress.						
æ	Live mount Run a virtual machine directly from a stored backup for that VM.						

Guest files:

Restore files or folders from a virtual machine either to the original VM or to another one.

Note: Windows VSA server can only restore windows VM files

• In the restore window, browse and select the files or folders to restore and click Restore



• In the restore to window, choose My VM (to restore to original server) or other VM (to restore to another VM) or Guest agent (to restore to the VSA Access Node), and provide the user credentials for that server. Then click Submit

	Option to restore		Restore to	,	Ontion to restore	
Option to restore	to the another		Other VM Gues	t agent	to the VSA	
to the original	server		Access node	*****	Access Node	
server			Destination hypervisor	XXXXXX	/	
Restore to		х	▶ □ BKPLABDatacenter		Restore to	×
MyVM Other VM Gue	stagent		•		My VM Other VM Guest agent	
Access node	XXXXXX 6	Ŧ			Destination xxxxxx	Ŧ
Whs	XXXXXX	-			Impersonate user (optional)	
Virtual machine login					Username	
Usemane			Virtual machine login		Pessword	
Password			Username			
Path		Browse	Password	Browse	Path	Browse
Unconditionally over	erwrite if it aiready exists		Unconditionally over	write if it already exists		

• The restore job starts. For further details, click on the View jobs link.

Virtual machine files:

Restore VMware files of a virtual machine.

Note: Useful when a VM is running but one of its disks reports errors or some configuration has changed...

- In the Restore window, browse and select the VM files and click Restore
- In the Restore options window, browse the destination path on the access node where the files would be restored and provide credential for the VM and click Submit

Restore options		×
Access node	xxxxxx	-
Impersonate user (option	nal)	
Username		
Password		
Path		Browse
Unconditionally overwrite	if it already exists	

Attach disk to existing VM:

Restore a disk from one VM to either the original VM or to another

• In the Restore window, browse and select the disk and click Restore

Restore	/ Disk level /					
		Restore				
» XXXXXX		XXXXXX				
		Name Name				
		XXXXXX.vmdk				
		[4] 4] 1 ∰ /1 ⊨ ⊨[20 0 items per page				

• In the restore options window, browse the Destination VM and Datastore (where the disk will be restored), and click Submit

Restore options		x
Destination hypervisor	XXXXXX	
Access node	XXXXXX	
Disk Provisioning	Original	
Transport mode for VMware	77%abel.transportMode.auto77?	
xxxxxx amdi	XXXXXXI smdk	
	Sixk norm	
	Destination VM	
	whereas division in the second	flowse
	Detastore	
	XXXXXX (700 64 CE 1	ect +

Disconditionally overwrite if it already exists

• For further details, click on the View jobs link.

Full Virtual Machine:

Restore complete virtual machine.

• In the Restore window, browse to select the VM and click on Restore

VMa : XXXXXX / Full VM / Restore	
Restore	
✓ t _{xxxxxx}	
4 4 1 ● /1 ► ► 20 0 tems per page	

• In the first Restore options window, define the Destination hypervisor, Access node, the restored VM name (either same or different name) and the Recovery point ; then click Next

Restore options		×
	Showing backup as of 2020-04	-08 00:34 🔻
Destination hypervisor	XXXXXX	
Access node	Distribute workload	•
Select a different vCer	iter (optional)	
Restore in place		
xxxxxx V	M display name	
_		

• In the second Restore options window, choose the Disk Provisioning type and the Overwrite VM condition you desire (overwrite existing VM or not) and click Submit

Restore options		×
Power on VMs after restor	re	
Unconditionally overwrite	if it already exists	
Disk Provisioning	Original	
Transport mode for VMware	???label.transportMode.auto???	*
Restore virtual machine us	sing live recovery (vMotion)	

VM Groups Restore

To perform a restore of multiple VMs use the VM groups Restore as follows:

Note: Multiple VM restores may require an adequate network bandwidth as the volume of data to transfer may be important

• In the FAB Backup console, under the Solutions / Virtualization section, click on the VM groups tab, from there click on the VM group name to restore

Hypervisors	VM groups	Virtual machines										
VM (prosps.) XXXXXXX												
Overview	Configuration									Backup	Viewjobs	Θ
VMs					Recov	ery point						
4	0		0		c	April 2020					>	
HUICLICD	NUT	NUTELIED	TREORS		Sun	Mon	Tue	Wed	Thu	гн	Sat	
								01	62	43	04	
Summary					05	95	07	08	ce	10	11	
Last backup time		Apr 9, 12,44,55 AM	1		12	13	14	15	18	17	18	
Last backup size		5.37 GB			19	20	21	22	23	24	25	
Next backup time		Apr 10, 12:50:00 A	м		26	27	28	29	30			
Region		Netset		Edit								
Data management		-									Restore)
					Apr 7 12:30 A	8 28 AM		1				

- Select the recovery point (calendar date & backup time) and then click Restore
- In the Select restore type window, click on the Full virtual machine

Hypervisor	xxxxxx ¹¹ xxxxxx /
Sele	ct restore type
	Guest files Restore files from the guest virtual machine to the file system of the access node or other client.
	Virtual machine files Restore virtual machine configuration and VMDK files to the file system of the access node.
۲	Attach disk to existing VM Restore individual VMDK files to the datastore of an ESX host and attach the VMDK to an existing virtual machine.
•	Full virtual machine Restore complete virtual machines directly to the datastore of host.

• In the Restore window, select the VMs to restore by checking their corresponding boxes, and click Restore

Hypervisors / XXXXXX / XXXXXX / Full VM / Restore
Restore
bkp-group01
☑ Name
xxxxxx
✓ xxxxxx
Image: Image of the second

• For further details on the initiated restore job, click on the View jobs link.

Restore Databases

Restore SQL servers Instances

• In the FAB Backup console, Solutions / Databases / SQL Server section:

Instances	Databa	ses	Instant c	lones									Add Insta	nce	Add	Server
Instances													Q, Search			٥
Name †	-	Version	:	Server	1	Status	÷	Number Of	÷	SLA	:	Plan	1	A	ctions	1

• Find the DB Instance you wish to restore, click on its Action button, and click on Restore

instances															•	
Name †	ł	Version	1	Server	ł	Status	ł	Number Of	5	SLA	:	Plan E	Ac	tions :	/	•
XXXXXX		14.0.1000.169		XXXXXX		Ready		10		Met		FE-SERVER-14Day-SWee		0	^	
XXXXXX		12.0.5000.0		XXXXXX	¢	Ready		5	1	Met				Backup	2	

• Select the database to restore by checking the required box, and click on Restore (top right corner)

	Select	database to restore	from _{XXXXXX}				Restore	٩	Search	
~		Database	Server	ł	Recovery model	ł	Latest backup time	ł	Size	ł
		XXXXXX	XXXXXX		FULL		Feb 17, 3:05:29 PM		779.33 MB	

• Select the restore point either by dragging the bar or specifying the time in the required box

Instances	Databases	Instant clones	 Ducito		,				
Instance name	XX	XXXX	<	March 20	20				>
Server name	XX	XXXX	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Recovery model	FUL	L							
Oldest Backup Time	Mar	02 2020 3:15:11PM	01	02	03	04	05	06	07
Latest backup time	Mar	02 2020 3:25:36PM	08	09	10	11	12	13	14
Size	43	MB	15	16	17	18	19	20	21
576.0	4104		22	23	24	25	26	27	28
			29	30	31				
							Rest	ore Ins	stant clone
			2:00:00 AM			12:00:00 PM	03:31:33 PM		
			() 03	06:00:00	AM : 33	РМ	06:0	0:00 PM	

• In the database selection window, select the DB to be restored and click on the restore button.

Inst	tances	Databases	Instant clones						
Instances /	XXXXXX								
Select	database	to restore f	rom xxxxxx					Restore	Q, Search
	Database	1	Server	:	Recovery model	:	Latest backup time		: size
	xxxxxx		xxxxxx		FULL		Mar 4, 4:43:25 AM		4.38 MB

• Select the tab based upon the type of restore require, provide the inputs and hit submit to start restore.

Restore of xxxxxx	×
In place Out of place Restore to disk	
Restore database to the original location and instance.	
Destination server XXXXXX	
Destination instance XXXXXX	
Destination database xxxxxx	
Warning: Production databases XXXXX will be overwritten on XXXXXX	

- In place restore Restores the Database on the same server and existing database is overwritten

• Out of place restore - It allows to choose the destination SQL server, destination Instance, restored DB name, data file and log file location, and recovery state.

Resxxxxx	ok_DB		×
In place Ou	t of place Resto	re to disk	
Restore database using	a different name, file p	aths or Instance.	
Destination server	Select a s	server	*
Destination instance	Select an	Instance	¥
Data files			~ 1
XXXXXX	Destination	XXXXXX	
XXXXXX	database		
XXXXXX	Data file path	C:\Program Files\Micr	Browse
	Log file path	C:\Program Files\Micr	Browse
Additional optio	ins		~
Recovery types	Recov	ery	
	O No re	covery	
	⊖ Stand	by	,
		Canc	el Submit

• Restore to disk - It allows restore of backed up data to a disk that is either on the same or on a different SQL Server. When you select this option, you can restore the data to the database by using third-party tools such as SQL Management Studio.

In place Out of place Restore to disk Restore database to disk. Destination server XXXXXX	
Restore database to disk. Destination server XXXXXX	
Destination server XXXXXX	
	Ŧ
Path C:\Temp\SQL-Restore Browse	<i>i</i> se

• The restore job starts once the submit button is clicked. If you require further details, click on the View jobs link.



Cancel

Submit

• It would take you to the job history and here more details about the job can be viewed by clicking on job id.

Job histo	Ty Last 24 hours	•							۵
job id 🚦	Operation !	Server I	Agent type	Subcl	Server group	Size I	End E	Elaps	Status
86505	Restore	XXXXXX	SQL Server		XXXXXX	10.50 MB	Mar 2. 3:45:05	7 sec	Complet

Restore Oracle Database Instances

2 possibilities are given to you in order to restore your Oracle DB environment:

Restore via the FAB Backup console

Note: Using the FAB Backup console, the following data may be recovered:

- Database
- Control File
- Individual tablespaces

In the FAB Backup console, under the Solutions / Databases / DB Instances section, click on the DB Instance you
wish to restore:

Instances 📶 🔹	1 Protected 0	Unprotected 0 Exclu	ided		Backup Rest	ore 😫 🗌	Q, 58	erch	¢
Name i	Server † i	Database engine i	Status i	Last backup time i	Size i	SLA	i	Plan	i
XXXXXX	XXXXXX	Oracle	Ready	Jun 15, 2020 12:17:34 PM	12.20 GB	Met		FE-UNIVERSAL-7d	d

- Select the Subclient to restore, and click on Backup history

 Subclients
 Add subclient
 I Plan
 I Plan
 I
 Add subclient
 I
 Add subclient
 I
 Iun 15, 2020 12:17:34 PM
 FE-UNIVERSAL-7/days-PARIDS
 Iun 14, 2020 11:34:41 PM
 FE-UNIVERSAL-7/days-PARIDS
- Select the backup job to restore by clicking on its corresponding Job Id and then click Restore

Active	jobs	Job hi	story											
Job his	tory (Last 3)	months	•••											۵
Job Id	Operation	i	Server	I Agen I	Subclient T 3	5e., 1	Size	E E	and	I	Elapsed 3	Status	E	
102141	Backup		XXXXXX	Oracle	default	Dem.	2 GB	þ	un 14, 11:34:41 PM	I	4 min 21 sec	Completed		
102068	Backup		XXXXXX	Oracle	default	Dem.	245 MB	þ	un 14, 2:32:12 PM		3 min 24 sec	Completed		
101391	Backup		XXXXXX	Orade	default	Dem.,	1.87 GB	ŀ	un 13, 2:28:58 PM		3 min 20 sec	Completed		
			101	891 - [Ba	ackup]						×			
					View job details	Res	ubmit	Re	store Mor	e actio	ons 🔻			
			Job su	mmary										
			Type Backup	,		Ba Fu	ckup type dl							
			Status Comple	eted		50 XX	urce client XXXX	comp	kuter					
			Subclier default	t.		Str Ju	srt time n 13, 202	0 2:25	5:26 PM					

• Select the tablespace to restore and click on Restore

Backup content	R	ectore	Show	ing backup from 2020-06-13 14:25:26 to 2020-06-13 14:28:58 🔻
T XXXXXX		DECOVIM		
► DATA_COMM	¥	Name		Туре
⊨ SYSALX	¥	DATA_COMM		TABLESPACE
► SYSTEM	v	SYSALDC		TABLESPACE
 USERS 	v	SYSTEM		TABLESPACE
\leq	¥	UNDOTES1		TABLESPACE
	V	USERS		TABLESPACE

- Select the restore options (In place or out of place) to modify the rest of the procedure accordingly
- In Place restore to the original server

	Restore options	×
	In place 🕄	Out of place 🕚
	Destination server	XXXXXX
	Destination instance	XXXXXX
	Restore	Redirect
	✓ Database	
Required Database mode:	✓ Control file	
Control file included: NOMOUNT	SP file	
	Recover to	
	O Most recent backup	
	Current time	
	Point in time	06/13/2020 14:28:58

Out of place – Restore to another server and another instance.

Prerequisite:

The destination Oracle server must already have an instance to overwrite with the data to restore

	Restore options		×
	In place 🚯	Out of place 0	
	Destination server	XXXXXX	
	Destination instance	Select a destination instance	Ŧ
	Restore	Redirect	
	✓ Database		
Required Database mode:	Control file		
Control file included: NOMOUNT	SP file		
	Recover to		
	Most recent backup		
	O Current time		
	Point in time	06/13/2020 14:28:58	
	When the job completes, no	tify me via email	

• Once the input has been provided click on Submit, and reconfirm the restore

🖲 Confirm			×
Instance [xxxxxx] on client [want to continue?	XXXXXX] will be restored.	Do you
		No	Yes

• The restore job starts. For further details, click on the View jobs link.



• In the job history (see the Monitoring section) further details on the job can be presented by clicking on the job id. From there RMAN logs can be shown as well.



RMAN logs for the job 98197

Rman Script: [shutdown immediate;
startup nomount;
SET DBID 2906253482;
run (
allocate channel chl type 'sbt_tape'
PARMS="SBT_LIBRARY=/opt/commvault/Base/libobk.so, BLRSIZE=1048576 ENV=(CV_mmsApiVsn=2,CV_channelPar=ch1,ThreadCommanc
ca
TRACE 0;
send " -jm 131082 -a 2:0 -cl 186 -ins 62 -at 22 -j 98197 -jt 98197:2:1 -rcp 0 -ms 1 -p 1 -df";
restore controlfile from autobackup until time = "TO_DATE('05/19/2020 23:39:55','MM/DD/YYYY HH24:MI:SS')";
sql 'alter database mount';
3
exit;
1
Rman Log: [
Recovery Manager: Release 12.2.0.1.0 - Production on Thu May 21 06:26:15 2020
Copyright (c) 1982, 2017, Oracle and/or its affiliates. All rights reserved.
RMAN>
connected to target database: DBCOMM (DBID=2906253482)
using target database control file instead of recovery catalog
RIGAN>
database closed
database dismounted

Restore via RMAN in command line

Oracle Recovery Manager Interface can be used to perform restores when the Commvault interface does not support the RMAN commands or options you require. This section helps you configuring an RMAN restore by presenting you some possible use cases:

Note: Using the RMAN command line, the following restores are supported:

- Full database
- Control File
- Multiple stream
- Tablespace point-in-time restore
- Redirected restore using SET NEWNAME

SBT parameters example - PARMS="SBT_LIBRARY=/opt/commvault/Base/libobk.so, BLKSIZE=1048576 ENV=(CV_mmsApiVsn=2,CV_channelPar=ch1,ThreadCommandLine= -cn <your server name> -cs pbaasfepacs1)"

Some restore scenarios:

Oracle Full Databases

- Put the database in MOUNT mode.
- On the RMAN command line, run the following sample script, substituting any required or optional Oracle SBT parameter

run {
 allocate channel ch1 type 'sbt_tape';
 allocate channel ch2 type 'sbt_tape';
 restore database ;
 recover database;
 sql "alter database open"; }

Oracle Control Files

- Put the database in NOMOUNT mode.
- On the RMAN command line, run the following sample script, substituting any required or optional Oracle SBT parameter

run {
set DBID <dbid>;
allocate channel ch1 type 'sbt_tape';
restore controlfile from autobackup ; }

Cross-Machine or Duplicate Restore

 Include the CvClientName or CvInstanceName environment variables for the source client name in the following RMAN restore script.

allocate channel ch1 type 'sbt_tape' PARMS="SBT_LIBRARY=<software install path>/Base/libobk.so,BLKSIZE=1048576, ENV=(CvClientName=clientname,CvInstanceName=instance_name,CvSrcClientName=sourceclient name)";

Multiple Stream Oracle Restores

• Use a unique backup piece format to avoid conflicting backup piece names

run

{ allocate channel ch1 type 'sbt_tape' PARMS="SBT_LIBRARY=/opt/Base/libobk.so,BLKSIZE=1048576"; allocate channel ch2 type 'sbt_tape' PARMS="SBT_LIBRARY=/opt/Base/libobk.so,BLKSIZE=1048576"; allocate channel ch3 type 'sbt_tape' PARMS="SBT_LIBRARY=/opt/Base/libobk.so,BLKSIZE=1048576"; restore database ; recover database ; sql "alter database open"; }

Oracle Individual Tablespace Point-in-Time restore

• Clear the Oracle Flashback area so that RMAN uses the Commvault objects when performing the restore.

RMAN> CONFIGURE CHANNEL DEVICE TYPE 'sbt_tape' PARMS="SBT_LIBRARY=/opt/Base/libobk.so, BLKSIZE=1048576";

RMAN> RUN {recover tablespace test1 until time = "TO_DATE('02/12/2013 16:58:43',HH24:MI:SS')" auxiliary destination '/u01/tspit/'; }

Restore Hyperscalers Applications

Exchange Online Mailbox

- In the FAB Backup console, Solutions / Office 365 section, click on the MS 365 App name
- Select the **mailbox** you want to restore and then click Restore

Office 355	acps /								Herbones		Auto Discover Associat	tions
365-d	lemo								Restore Run jobs v		Add Maibox	٥
С	Name	ł	SWTP address	ł	Plan	ł	Malbox type	:	Processed until		Val box size	÷
	Franck		X00000 @ X00000000 X0000000		FE-0365-180days-PARIS		UserWallbox	1	Nov 11 2020, 1:31:05 AM	8	46.47 MB	

- Select the items (mails, folders, tasks, contacts etc.) to restore and click on **Restore**,
- In the Restore Option window, select the required options

Search servers, groups and more			Restore options	×
Exchange			Restore to	Maibax +
365-demo	Restore + Delete -		Destination host	365 demo 👻
T Franck IMDORDIS	Selected items / Inhow		Restore to original folder	
Archive Calendar Contacts Delated Items	From * Office365Alerts:Bmicrosoft.com	To a Subject William Low-sev	When message exists	Overwrite unconditionally Skp
Drafts Mistorique des conversetions inbox	Office365Alerts@microsoft.com Office365Alerts@microsoft.com Office365Alerts@microsoft.com	William Low-sev William Low-sev		
 Journal Notes Outbox 	frz Sorwije com	Franck Field		Cancel Submit
 RSS Subscriptions Sent Items 	Office365AlertsPmicrosoft.com	William Low-sev		

- Click on Submit
- (Optional) To restore to different folder or different user mailbox (rights only with tenant admin),
 - Uncheck the Restore to original folder

Restore options		
Restore to	Malibox	
Destination host	365-demo	
Restore to original folder		
Destination path		Browse
When message exists	Overwrite unconditionally	
	🔿 Skip	

• Browse and select the Destination path and click on OK

Restore path	×	
v usermailbox	1	`
Charles-Aimé EDI		
Demo FAB		
Archive		
Boîte de réception		
Boîte d'envoi		
▶ Brouillons		
Calendrier		
Contacts		
Courrier indésirable		
Éléments envoyés		
Éléments supprimés		
▶ Fichiers		
Historique des conversations		
▶ Journal		
▶ Notes		
Racine de Yammer		
▶		
	Cancel OK	

Click Submit

Restore options		×
Restore to	Mailbox	•
Destination host	365-demo	
Restore to original folder		
Destination path	Demo FAB\Boite de réception	Browse
When message exists	Overwrite unconditionally	
	🔾 зкір	
	Cancel	Submit

- ٠
- For further details, click on the view job details link and then on the job ID

Jobs Activity follow-up

Active Jobs

To gain vision on the currently active jobs:

• In the FAB Backup console, go to the Monitoring / Jobs section

																Active jobs	Job his	tory
Ac	tive	jobs ar												: Q, Search		Auto updat	e off	
		Job Id 4	Operation	Server	1	Agent type	Subclient	:	Server group	:	Size	: St	tart 🚦	Elapsed	Progress	5	:	
		65410	Backup	xxxxxx		File System	default		xxxxxx		0 B	м	lar 13, 8:00:12 PM	0 sec				^

Find here all currently active jobs (backup & restore)

• Click on a job to get further details on its process:



Job history

To gain vision on the past Jobs activity:

In the FAB Backup console, go to the Monitoring / Jobs section, and click on Job history

Active jobs	Job history	
Job history (Last 24 hours	\$

This view lists all completed jobs.

You may click on a job ID to get further details and possible actions

Job hi	story Last 24 ho	ours T									
	Job Id 4	Operation :	Server	Agent type	Subclient [Server group	Size	Start 1	Elapsed	Status	1
	74590	Restore	XXXXXX	Windows File Syst		XXXXXX	0 B	Apr 4, 2:51:25 PM	21 sec	Completed	^
	74582	Backup	XXXXXX	Rie System	default	XXXXXX	6.98 MB	Apr 4, 2:27:07 PM	2 min 48 sec	Completed w/ one or more en	
	74324	Backup	XXXXXX	File System	default	XXXXXX	5.16 MB	Apr 4, 12:03:43 AM	2 min 33 sec	Completed w/ one or more en	
	74322	Backup	xxxxxx	File System	default	XXXXXX	24.90 MB	Apr 4, 12:03:43 AM	1 min 35 sec	Completed	L
	74319	Backup	XXXXXX	File System	default	XXXXXX	5.16 MB	Apr 4, 12:03:43 AM	2 min 32 sec	Completed w/ one or more en	
	74291	Backup	XXXXXX	File System	default	XXXXXX	475.47 MB	Apr 3, 11:03:40 PM	1 min 46 sec	Completed	L
	74290	Backup	XXXXXX	Rie System	default	XXXXXX	9.53 MB	Apr 3, 11:03:40 PM	2 min 35 sec	Completed w/ one or more en	
	74289	Backup	XXXXXX	File System	default	XXXXXX	9.04 MB	Apr 3, 11:03:40 PM	2 min 41 sec	Completed w/ one or more en	

Troubleshooting guide

What to do when getting an error...

Checking the logs

Logs files can be found on the host under below path: For **Windows** : C:\Program Files\Commvault\ContentStore\Log Files\ For **Linux** : /var/log/commvault/Log_Files/

Below is the name and description of log files that can be used to troubleshoot various issues.

Log file Name	Description
Install.log	Installation log file *
clBackup.log	File System backup log file

clRestore.log	Restore log file
extidbdiscover.log	Initial Exchange DB discovery log file
extidbbackup.log	Exchange backup log file
SQLiDA.log	SQL backup log file
vsbackup.log	Virtual server agent backup log file
Vsrst.log	Virtual server agent restore log file
vsrst.log	New restore log file for Virtual server agent

* Note: For **Windows** if Log folder is not created for some reason during installation then, install log can be found in this location C:\ProgramData\Commvault Systems\Galaxy\LogFiles\Install.log.

<u>Notes</u>: The Program Data is hidden folder ; you need to enable the Windows "show hidden folders" options

Checking the Jobs

At first, it's important to have a look at the job activity.

Look for the implied job, and check for events.

It may be relevant for deeper analysis on the jobs activity, to have a look at the events.

As explained in the **Jobs Activity follow up** chapter, you may find events related to each job within the job activity log. Otherwise, you may also require having a more global look at the activity, by checking on all events occurring for your Company:

• In the FAB Backup console, go to the Monitoring / Events section

Events All 🔻									Q. Search	
	Severity	Event ID	Job ID	Date	Program	Computer	Event co	Description		≡
	xxxxxx	XXXXXX	XXXXXX	Date & Time	Source program	Agent name	XXXXXX	Event description with detail		

Depending on the case, and for further analysis, acquiring the job logs could be interesting (see the **Active Jobs** chapter). Here follows a list of possible encountered errors and the action to be taken

Error	Action to be taken
Source could not start the command	Check the network settings on the source computer
Destination could not start the command	Check the network settings on the destination computer

Services on destination are down	Make sure that the necessary services are up and running on the destination client computer (see Client Backup Services section)
Services on source are down	Make sure that the necessary services are up and running on the source client computer (see Client Backup Services section)
Connect timed out	Check the connectivity between the source and destination computers in this message and make sure that you can ping these computers from one another
Job Result Folder has low capacity	Increase capacity
Base Folder has low capacity	Increase capacity
Authentication failed	Make sure the proper authentication was used
Firewall connect failed. Source client < <i>n</i> > is not listed in the firewall config file.	Make sure that the firewall config file is correct and check if this client is listed in the file

Check readiness

Often backups are pending due to a lack of communication between the FAB infrastructure and the agent located on the client to backup.

Such communication may be verified through the check readiness command:

• In the FAB Backup console, go to the Administration / Servers section

Servers						Q, Search	Add gateway	Ade	t server ▼	\$
Name †	:	Agent	1	Version	1	os i	Update status	8	Actions	:
xxxxxx		Windows File System		11 SP14 HPK7+		Windows Server 2016 Datac	Needs update		Θ	

• Locate the concerned agent click on its action button, and click on Check Readiness

Servers					Q, Search	Add gateway	Add	server 🔻	¢
Name 1	i Agent	E Ve	ersion i	os	:	Update status	÷	Actions	1
XXXXXX	Windows File System	11	I SP14 HPK7+	Windo	ws Server 2016 Datac	Needs update		Restore Back up View jobs	ware
								Retire Check ret Send log	adiness

• Wait for the operation to complete and look for possible errors reported

Check rea	adiness		Show details	Check readiness
Check readiness Check readiness Resource/Cr Include disa Application Additional re Client cor	son: apacity bled entitles check esources nnectivity	for xxxxxx		
Name	Status	Reason		
Client	Not Ready.	Communication failure between CommServe and Client xxxxxx -, Error returned is:Connect failed. Communication failure between CommServe and MediaAgent xxxxxx -, Error returned Is:Connect J. Deduplication Database is offline.4. MediaAgent xxxxxx - is offline. S. Mount Path [xxxxxx] ca-object is offline.	falled.	be site of the second se
MedlaAgent	Not Ready.			

Client Backup services

Backup services on the clients have to be up and running for any backup & restore operation. Below is the list of services (name, process, description and log files).

Windows Service Name	Processes (Linux / Windows)	Description	Log file
Commvault Communications Service (GxCVD)	CVD	Base Service, Provides the ability to fetch or save metadata on the CommServe when backup or restore are in progress.	CVD.log
Commvault Network Daemon (GxFWD)	Cvfwd	File System backup log file	Cvfwd.log
Commvault Client Manager Service (GXCIMgrS)	CIMgrS	Responsible for archiving or recovering the files	CIMgrS.log
	cvlaunchd	Linux Process only - Responsible for spawning Commvault processes	cvlaunchd.log

On your Windows devices, the FAB service management is made as follows :

Open the Windows Start menu -> expand the Commvault start menu folder -> click on Commvault Process Manager -> go to services tab.



From this pane, your client services can be started, stopped, and restarted using the button at the bottom.



On your Linux devices, , the FAB service management is made as follows :

Verify services:

Run the commvault -all list as root user

[root@ecs-worker-01 ~]# commvault -all list				
*** Instance001, sbaasfepa3bkp ***				
Service	PID	Description		
cvlaunchd	11926	Commvault Launch Daemon		
cvd	11927	Commvault Communications Service		
ClMgrS	11928	Commvault Client Event Manager		
cvfwd	11930	Commvault FireWall Daemon		
		++		

To stop service run commvault -all stop as root user To start service run commvault -all start as root user To restart service commvault -all restart as root user

Looking for alerts

FAB logs all alerts set for you Company.

When analyzing an error, it could be relevant to have a look at the alerts:

• In the FAB Backup console, go to the Monitoring / Alerts section

Triggered alerts	Alerts definitions	
Triggered ale	rts (All •)	Auto update off
	No data available	
Notes: The "N	lo data available" message indicates that no alert wa	s sent the past 7 days

You may subscribe to pre-defined alerting policies:

• In Monitoring / Alerts section, click on Alerts definitions



• Click on the Alert definition you wish to setup

Triggered alerts	Alerts definitions				Add alert definition
Alerts definition	ons				¢
Name †		Туре	Company	Enable	ed
Backup job failed		Data Protection	XXXXXX	~	^
Backup job succeeded	I	Data Protection	XXXXXX	~	
Restore job failed		Data Recovery	XXXXXX	~	
Restore job succeeded	t	Data Recovery	XXXXXX	~	

• In the Alert target section, click on Edit

Alerts definitions / Backup job failed					Edit template	Delete
Alert summary			Alert target			Edit
Alert type	Data Protection		Send alert to	Email		
Alert category Alert criteria	Job Management Job Failed		Recipients			
Send individual notification			No recipient selected			
Entities		Edit				that
Server groups						
Servers No server selected						

• Select the options you require and click on Save

Edit alert target ×						
Send alert to Email Console	Event viewer SNMP					
Recipier	nts					
То	Enter user(s), user group(s) or email					
Cc	Enter user(s), user group(s) or email					
Bcc	Enter user(s), user group(s) or email					
	Cancel Save					

Notes: Make sure your desired alerts are enabled in the Alerts definitions section (checkbox Enabled)

How to contact the FAB support...

For any further help you may require contacting us...

• Connect to your Cloud store, and click on your required Flexible Engine domain https://selfcare.cloud.orange-business.com/



• Go to the Support section and follow the provided instructions depending on your need

Contrat Tableau de bord Services Commandes Abonnements Factures Documents Support	Utilisateurs
🖹 🚷 🛍 🖻 🥸 🖫 💬	
Support	
En Ligne Consulter l'aide en ligne ici Accéder à la communauté d'assistance Ouvrir un ticket incident Par Tâléphone	No la
Le Centre Support Client est accessible 24/7. Son numéro de téléphone est disponible ici (celui-ci dépendra de la localisation géographique de votre siège social si vous disposez d'un VPN Orange).	



Go to the Services section and click on Manage your change requests



FAQ

Which agent to choose for a standard Windows server backup?

• The agents for Files and Folders on Windows Server are named

FS-Agent_WinXxx where xx represents the OS Architecture type, i.e. either 32 (x86) or 64 bits

Which agent to choose for protecting my Microsoft Exchange Database?

• To deploy the FAB agent for Microsoft Exchange, the agent to download is: Apps-Agent_WinX64

Which policy should I use for saving my files to Paris and to Amsterdam?

• In order to protect your data in Paris and Amsterdam with the same policy, you are given the possibility to use any policy named:

XXXXXXXXXX- PARIS + AMSTERDAM

<u>Notes</u>: Various policies exist with such naming, depending on the data retention period you wish to apply for your data protection