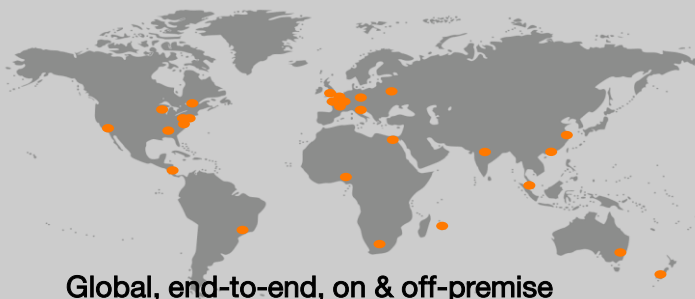


# Private Cloud Solutions

## Transformation to agile 3rd generation cloud

The **Private Cloud Solutions** from Orange Business Services are deployed by enterprises and public administrations looking for the benefits of the IT modernization with a production grade cloud Infrastructure at scale, while enforcing their own security policies, while complying with the regulatory rules and keeping datacenter location flexibility.



### Our solutions

Designed with most recent cloud technologies of Software Defined DataCenter (Compute, Network, Storage), Orchestration and APIs, the solution is customized to the customer specific needs including:

- location off-site and on premise, security, compliance, availability, disaster protection constraints
- ability to handle legacy applications, next gen applications and specific workloads
- end-to-end solution for multi-site cloud, datacenters, wide-area network and internet
- various degrees of managed services on cloud and legacy IT to meet customer objectives
- assistance in the path from the existing infrastructure to the hybrid cloud and IT target
- commitment to service level agreements

### The solutions serve 12 main objectives









<b>Data protection</b> deploying managed backup to cloud	<b>Disaster Recovery Plan</b> deploying DRP for virtual infrastructure
<b>Security for agile applications</b> deploying micro-segmentation on private cloud	<b>IT services acceleration</b> evolving from virtualization to Software Defined DataCenter
<b>Cloud native applications</b> deploying VM secured containers, orchestrator and registry	<b>Hybrid service catalogue</b> deploying automation and security across private and public cloud
<b>Private datalake &amp; analytics</b> deploying Hadoop and HDFS managed cluster	<b>ERP &amp; database managed</b> with our SAP™ and managed database practice
<b>Infrastructure outsourcing</b> for your private cloud, middleware and applications	<b>Turnkey migration</b> of applications to private cloud with our migration practice
<b>Easily scaling private cloud</b> with hyper-converged managed private cloud solutions	<b>Branch office extension</b> of your private cloud with WAN, security and multi-sites service catalogue

The Transformation to agile 3rd generation private cloud consists in evolving from the standard virtual environment into most advanced private cloud technology with the following benefits:

- stronger security and filtering at each VM and container border as opposed to perimeter
- Software Defined DataCenter inclusive of network functions
- open APIs, orchestration, automation and hybridization with the Public Clouds
- containers, Kubernetes and PaaS private platform for 3<sup>rd</sup> generation applications



For the complete catalogue of services of the solution, Orange Business Service partners with the following technology leaders :

<b>Hardware</b> 	<b>Hyper-converged</b> 	<b>Cloud foundation</b> 	<b>NAS, Cloud GTW</b> 
<b>Backup</b> 	<b>Object Store</b> 	<b>PaaS</b> 	<b>Big Data</b> 

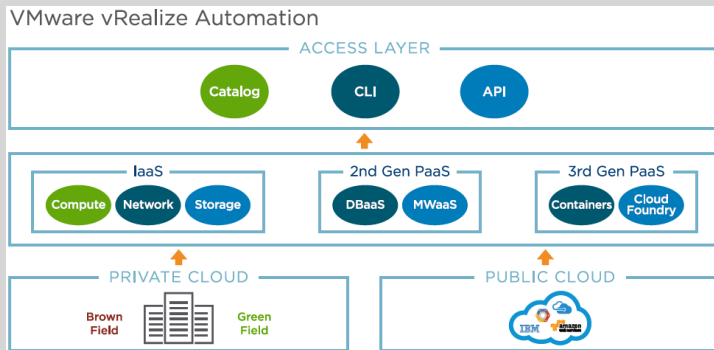
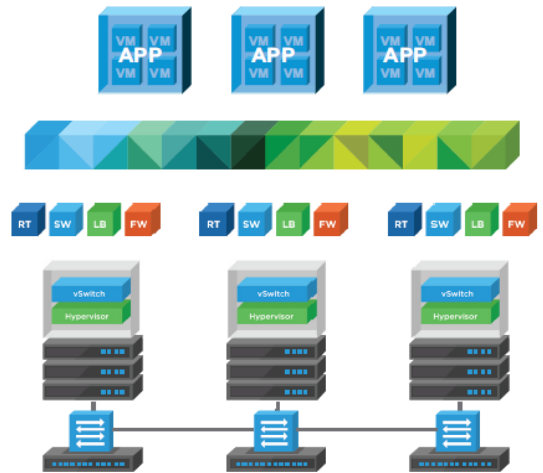
# Transformation to agile 3rd generation cloud

The Transformation to agile 3rd generation private cloud leverages the following components

## Network Virtualization and the SDDC

VMware NSX® is the network virtualization platform for the Software-Defined Data. It offers the following benefits:

- Micro-segmentation and granular security delivered to the individual workload
- Reduced network provisioning time from days to seconds and improved operational efficiency through automation
- Workload mobility independent of physical network topology within and across data centers
- Enhanced security and networking compatible with north-south third-party gateways



## VMware vRealize Automation

VMware vRealize® Automation™ empowers IT to accelerate the provisioning and delivery of IT services. It offers the following benefits :

- **Agility** – Automates IT service delivery processes leveraging a catalog of blueprints
- **Control** – Embeds governance-based access control policies for launching the IT services
- **Self-service** – opens the private cloud infrastructure APIs and CLI to the developers
- **Integrates** with north-south 3rd party gateways and public cloud for hybridization.

## Container and PaaS services

vSphere Integrated Container Service: provides security, network connectivity and persistence at container level.

Pivotal Container Services: delivers Kubernetes orchestration to containers

Cloudfoundry™: delivers managed PaaS services on the private cloud

