Flexible Reserved Instances
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1. Presentation of Flexible Reserved Instances

Flexible reserved instances offer you the ability to modify your instance reservation during the duration of your engagement. This allows you to adapt your infrastructure to your needs.

Flexible reserved instances also allow you to benefit from a significant discount compared to the pricing of on-demand instances (up to 57% discount).

2. How to subscribe to Flexible Reserved Instances?

To order Reserved Instances of flexible type:

   a) Log in to your technical console to check if the service you want to reserved is available
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Two possible scenarios:

- **You already use the instance** (with the same features) running in Pay as You Go mode: you can directly switch to step **b)** and reserved your instance in your customer cloud store space.

- **You do not use the instance**: You need to make sure you have launched / created the resource in your Technical Console before making a Reserved Instance request on the Cloud Store.

For example for an ECS, click on “create ECS” and follow the different steps to configure the instance. At the end click on “confirm”.

You need to make sure that you follow this step and that you have put in place a one to one reservation policy: One item in the Technical Console must equal one reserved instance/service in the Cloud Store.

Once the service is activated, you can go on your customer space to reserve your instance.

**b)** From your customer space, click on the “catalog” tab to access the services available for reservation.

**c)** Find the service you wish to reserve and click on the “order” button on the instance reservation tile.
All to know about Flexible Reserved Instances.

d) Specify the contract, the region and the flavor. These fields are required to progress through your order process.

You can order several reserved instances at the same time. These reserved instances can be of different sizes, on different regions and for different contracts.

Select the desired subscription or subscriptions from the list of available subscriptions displayed.
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f) Select the desired start date and finalize your order by clicking on the "order" button

A confirmation message for your order will be displayed.

An order confirmation email is sent to you.
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3. Changing your instances reservation

You can exchange one or more flexible reserved instances for one or more flexible reserved instances (subject to compliance with the rules mentioned in section 4. Conditions related to the modification of your instance reservation. There is no limit to the number of exchanges you can make.

The different types of modification possible are:

a) Simple upgrade

![Diagram showing simple upgrade from t2.micro to t2.small](image)

*Change a flexible reserved instance to a higher flexible reserved instance in vCPU, GB RAM and price.*

b) Multiple upgrade

![Diagram showing multiple upgrade from s3.large.2 to s3.xlarge.2](image)

*Change several flexible reserved instances to several higher flexible reserved instances in vCPU, GB RAM and price.*

c) Combination

![Diagram showing combination from s1.medium to s1.large](image)

*Consolidate multiple flexible reserved instances into a single higher flexible reserved instance in vCPU, GB RAM and price.*
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**d) Dissociation**

Divide a flexible reserved instance into several flexible reserved instances. The total in vCPU, GB of RAM and target instance prices must be higher than the source instance.

4. **Conditions related to the modification of your instance reservation**

a) **Change period**

It is possible to modify your instance reservation as soon as you subscribe to flexible reserved instances. However, the exchange of your flexible reserved instances **will be effective at the beginning of the month following your change request**.

*Example:* You subscribed to a subscription for flexible reserved instances on January 12, 2019. You have chosen a subscription period of 12 months. You subscribed to flexible reserved instances on March 3, 2019:

- **Start date**: January 12, 2019
- **End of the subscription period**: December 31, 2019
- **Effective date of the change**: April 1, 2019
- **Modification of the subscription**: March 3, 2019
- **End of the modification possibility**: March 2, 2019

**Warning:** You can no longer make any changes to your instance reservation from the last month of your subscription.
b) Terms of the contract

- When you exchange a flexible reserved instance for one or more flexible reserved instances, the latter take the end date of the engagement of the modified reserved instance:

  ![Diagram](image1)

  *t2.micro* → *t2.small*

  - *End date of engagement:*
    - *January 31, 2021*
  - *End date of engagement:*
    - *January 31, 2021*

- When you combine several flexible reserved instances with different engagement end dates, the new instance takes the engagement end date of the most distant flexible reserved instance source:

  ![Diagram](image2)

  *s1.medium* → *s1.large*

  - *End date of engagement:*
    - *February 28, 2021*
  - *End date of engagement:*
    - *April 30, 2022*

  *s1.medium* → *s1.medium*

  - *End date of engagement:*
    - *April 30, 2022*
  - *End date of engagement:*
    - *April 30, 2022*


c) Application rules related to the modification of your subscription

To be able to modify your instance reservation, rules apply:

- The exchanged flexible reserved instances must belong to the same region:

  ![Diagram](image3)

  *t2.micro* → *t2.small*

  - *1 vCPU, 1GB of RAM 6,70€ / month*
  - *Eu-west-1*
  - Orange Restricted

  - *t2.small* → *t2.micro*

  - *1 vCPU, 2GB of RAM 13,46€ / month*
  - *Eu-west-1*
All to know about Flexible Reserved Instances.

- When exchanging a flexible reserved instance for one or more flexible reserved instances, only flexible reserved instances with the same engagement duration will be available:

  ![Diagram showing t2.micro (24-month subscription period) and t2.small (24-month subscription period)]

- When exchanging several flexible reserved instances for one or more flexible reserved instances, only the new flexible reserved instances with a commitment duration similar to the commitment duration of the longest source flexible reserved instance will be selectable:

  ![Diagram showing s1.medium (12-month subscription period) and s1.large (36-month subscription period)]

- If the flexible reserved instances sources to be exchanged are with an upfront then the new flexible reserved instances are with an upfront as well. If the flexible reserved instances to be exchanged are without upfront then the new flexible reserved instances are without upfront:

  ![Diagram showing t2.micro (subscription with upfront) and t2.small (subscription with upfront)]
  ![Diagram showing t2.micro (subscription without upfront) and t2.small (subscription without upfront) with a note: Orange Restricted]
All to know about Flexible Reserved Instances.

- The configuration (vCPU and RAM GB) and price of the new flexible reserved instances must be greater than or equal to those of the exchanged flexible reserved instances:

  ![Diagram with instances and price comparisons](image)

<table>
<thead>
<tr>
<th>Old Instance</th>
<th>New Instance</th>
</tr>
</thead>
<tbody>
<tr>
<td>t2.micro</td>
<td>t2.small</td>
</tr>
<tr>
<td>1 vCPU, 1GB of RAM</td>
<td>1 vCPU, 2GB of RAM</td>
</tr>
<tr>
<td>6.70€ / month</td>
<td>13.46€ / month</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Old Instance</th>
<th>New Instance</th>
</tr>
</thead>
<tbody>
<tr>
<td>s1.large</td>
<td>s3.medium.4</td>
</tr>
<tr>
<td>2 vCPU, 8GB of RAM</td>
<td>2 vCPU, 8GB of RAM</td>
</tr>
<tr>
<td>60.65€ / month</td>
<td>40.44€ / month</td>
</tr>
</tbody>
</table>

  d) Refund of the initial payment paid and calculation of the new payment due

  When you exchange a flexible reserved instance with upfront for another flexible reserved instance with upfront, we will refund you pro rata the initial deposit you paid at the beginning of your reservation. However, you must pay pro rata the new upfront related to the new flexible reserved instance.

  **Example:** on January 1, 2021, you reserved a flexible t2.micro instance for a period of one year. You have chosen the payment method with upfront and have paid 33,21€. On April 18, 2021 you decide to exchange your t2.micro for a t2.small instance. The upfront amount for this instance and for a one-year subscription is 66,43€. This amendment is effective May 1, 2022.

  a) **Refund of the paid upfront:**

  \[ \text{Refund} = \left( \frac{\text{Number of months remaining before the end of the subscription}}{\text{Total number of months of the subscription}} \right) \times \text{amount of upfront paid} \]

  \[ = \left( \frac{8 \text{ months}}{12 \text{ months}} \right) \times 33,21€ = 22,14 € \]

  b) **Calculation of the new initial upfront due:**

  \[ \text{New upfront} = \left( \frac{\text{Number of months remaining before the end of the subscription}}{\text{Total number of months of the subscription}} \right) \times \text{Total initial payment amount of the new flexible reserved instances} \]

  \[ = \left( \frac{8 \text{ months}}{12 \text{ months}} \right) \times 66,43€ = 44,29 € \]
5. How to modify your reservation of Flexible Reserved Instances?

If you wish to modify your Reserved Instance subscription, you must go to your cloud store customer space:

a) Click on the "..." corresponding to your contract and then on "see subscriptions"

![Image of cloud store interface]

You will find in this page the list of your Reserved Instances and Flexible Reserved Instances.

b) Click on the "Modify" button associated with your subscription of flexible reserved instances

![Image of subscription modification page]

You can adjust the quantity of resources to be modified.

Information about the total vCPU, total RAM and Total Price will be updated accordingly.

c) Choose your resources to modify then click on the "Next" button
All to know about Flexible Reserved Instances.

d) Select the new resources you want to reserve

You can change the region, the template and the quantity.

Note: If the vCPU, RAM and Total Price counters turn red, it means that the underlined data does not comply with the rules established previously. Here, the price is higher but the vCPU and RAM of the selected flexible reserved instance are lower than the total of the modified resources.
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e) Finalize your order by clicking on the “validate” button from the Summary of changes step.

A confirmation message for your modification will be displayed.
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6. How to cancel your Flexible Reserved Instance?

If you wish to terminate your Reserved Instance subscription before the end of it, you must go to your cloud store customer space:

a) Click on the “…” corresponding to your contract and then on “see subscriptions”

You will find in this page the list of your Reserved Instances and Flexible Reserved Instances.

b) Choose the subscription you wish to cancel by clicking on the 3 dots and click on “cancel”
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c) Confirm the cancellation by clicking on “ok”.

7. When can I cancel my Reserved Instance?

- Period during which termination is possible (with cancellation fees)
- Period during which termination is not possible*

12% of the total amount due on the initial subscription period will be retained
8. Calculation of termination penalties

As explained above, for any early termination of a Reserved Instance, a fee will be charged. The amount retained will correspond to 12% of the total amount remaining due on the initial subscription period.

Example

You subscribe in December to a Reserved Instance ECS c1.large, 2vcpu, 2RAM (GB), EVS for 1 year without upfront. You will pay monthly 41, 64 € or 499, 68 € for one year (41, 64 x 12 = 499, 68), from next January to next December.

If you decide to terminate your contract before the end of the subscription in mid-March for example, the termination will be effective on April 1st.

You are initially committed for 1 year and will have to pay 12% of the total amount due for the subscription period, in our example, 12% of the remaining 8 months (April to December).

\[
8 \text{ months} = 333.12 \text{ €} \\
333.12 \text{ €} \times 0.12 = 39.97 \text{ €}
\]

In this example, you will have to pay 39.97€ to cancel his subscription.

9. How do I extend my Flexible Reserved Instance?

When one or more of your subscriptions ends, you will receive an email indicating the end of your subscription.

In this case you have two possibilities:

1) Ordering a new Flexible Reserved Instance (for this, see step 2 “How to subscribe to Flexible Reserved Instances?”)
2) The extension of your Flexible Reserved Instance at the same price.

To carry out the extension of your Flexible Reserved Instance, the procedure is the following:
All to know about Flexible Reserved Instances.

a) Click on the “…” corresponding to your contract and then on “see the subscriptions”

b) Choose the subscription you wish to extend by clicking on the 3 dots and click on "Renew".

c) You can then choose the renewal duration. To finalize the action, click on the "Confirm" button
10. Frequently asked questions

What is the difference between a standard Elastic Cloud Server instance reservation and a flexible Elastic Cloud Server instance reservation?
Booking standard or flexible Elastic Cloud server instances allows you to save money compared to the pay-per-use billing method. The flexible instance reservation allows you to modify your reserved instances during the period of your subscription.

Can I exchange my reservation of classic Elastic Cloud Server instances for a reservation of flexible Elastic Cloud Server instances?
This type of exchange is not available today. You will be able to subscribe to flexible reserved instances at the end of your standard instance reservation.

How do I know if my Reserved Instance subscription is ending soon?
In the subscription tab of the cloud store, you will find the list of all the subscriptions and their end dates. Moreover, an email is sent in the month before the end of the subscription to warn of the end of it.

Does the reservation of an instance in the cloud store generate the resource in my technical console?
To generate/create a resource you have to launch it in the technical console. The reservation of the instance in the Cloud store changes how you are billed but doesn't create any underlying resource/service.