



# Virtuozzo Hybrid Server 7

## CloudBlue Connector Guide

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## CHAPTER 1

# Introduction

Create products and allow your customers to create subscriptions with the Virtuozzo Hybrid Server CloudBlue connector. Having subscribed to the products, such as virtual machines and containers, one can manage their virtual environments via CLI or PowerPanel.

This guide explains how to enable and manage integration between Virtuozzo Hybrid Server and the CloudBlue billing system.

## CHAPTER 2

# Known issues and limitations

- The option of modifying hotplug resources for virtual machines is not implemented yet.
- Changing a hostname inside a virtual environment (container or virtual machine) via SSH leads to overwriting the hostname after the VE reboot with the one set in the CloudBlue Connect portal. Update a hostname via Control Panel only.
- The requested number of vCPUs cannot exceed the maximum number of available CPU cores on the current hardware node to create a virtual environment.
- It is required to check if a node has enough free storage space before creating a virtual environment.
- The option of changing a hostname specified while requesting the creation of a virtual environment is not available now.

## CHAPTER 3

# Importing from previous versions of CloudBlue connector

With the Virtuozzo Hybrid Server connector to CloudBlue Connect, new customers can manage virtual environments on top of Virtuozzo Hybrid Server, and existing customers can manage newly provisioned and imported virtual environments.

However, existing Virtuozzo and CloudBlue customers need a way to import or migrate existing subscriptions, resources, and compute workloads to be manageable by the new Virtuozzo Hybrid Server connector. Virtuozzo Hybrid Server delivers a utility to map existing subscription information of a virtual environment from CloudBlue Commerce to our newly developed Virtuozzo Hybrid Server connector for CloudBlue Connect. The customers can stay on the supported CloudBlue and Virtuozzo Hybrid Server platforms. The transition from Odin Automation Cloud Infrastructure (OACI) to the new Virtuozzo Hybrid Server connector is smooth and without any business interruption.

With our import utility, service providers can create a separate self-service panel subscription in CloudBlue Connect, add existing virtual environment subscriptions to a new self-service panel subscription, and map the virtual environment subscriptions under a single login in PowerPanel. After migrating and mapping subscriptions, a virtual environment user can log in to PowerPanel and continue the day-to-day operations with their virtual environments. The goal of the import utility is to provide the service providers with a smooth way of the subscription mapping migration from OACI to CloudBlue Connect while keeping the subscription and assigned resource information in CloudBlue Commerce.

The process of [creating a virtual environment product](#) in the CloudBlue Connect vendor portal includes a hidden ordering parameter, the migration UUID. This parameter is used for importing a subscription by the

Virtuozzo Hybrid Server connector from OACI. The status of an imported subscription remains as is or becomes active after the migration. However, the states of a migrated subscription and a virtual environment may differ, as the customer can stop the virtual environment before the migration. Thus, the subscription status can be active, and the virtual environment remains stopped. After the successful import, customer themselves can start such a virtual environment if needed.

The post-hook functionality can also be useful for checking the results of importing virtual environments and CloudBlue connector subscriptions:

```
# cat /var/log/cloudblue-connector/post_hook.log
AS-1087-8055-8780 purchase fail
AS-5474-7711-9006 purchase success

...

AS-2244-5099-6931 suspend success
AS-5474-7711-9006 resume success

...

AS-2244-5099-6931 cancel success

...

Import-Migration Activities:

AS-4112-7978-6284 purchase success
AS-6847-2186-6994 purchase success
AS-5972-4396-5856 purchase fail
```

Go to [Configure a config.json file](#) on page 8 to learn more about the post-hook functionality.

## CHAPTER 4

# Installing and updating Virtuozzo Hybrid Server CloudBlue connector inside Linux environment

To ensure the smooth functioning of the Virtuozzo Hybrid Server CloudBlue connector, you need to meet the requirements and prerequisites listed below.

## 4.1 Requirements and prerequisites

Apart from the below requirements and prerequisites, you must create and configure a product in the CloudBlue Connect vendor portal.

### 4.1.1 Virtual environment requirements

1. Create a virtual environment running Virtuozzo Linux 7 with an Internet connection that enables outbound access to the Virtuozzo Hybrid Server CloudBlue connector.
2. Install, configure, and start the Virtuozzo Hybrid Server CloudBlue connector service inside the virtual environment.

## 4.1.2 Infrastructure requirements

Virtuozzo Automator and PowerPanel must be deployed and accessible:

1. Install PowerPanel and Virtuozzo Automator on the virtual environment.
2. Provide inbound access to PowerPanel.
3. Ensure there is connectivity from PowerPanel and Virtuozzo Automator to the Virtuozzo Hybrid Server node cluster's internal network.
4. Restrict access to Virtuozzo Automator. It should be accessible to the administrators of the system only.

For more details, refer to the [Virtuozzo Automator Administrator's Guide](#) and the [Virtuozzo PowerPanel Administrator's Guide](#).

## 4.1.3 Internal communications and ports

The Virtuozzo Hybrid Server CloudBlue connector installed on Virtuozzo Automator must be connected with the PowerPanel controller, installed on a dedicated virtual environment (virtual machine or container), via the keystone port 35357. By default, the port is open locally and closed for external communications. Open it only for your local network inside the PowerPanel controller and make this rule permanent. For example:

```
firewall-cmd --permanent --zone=public --add-port=35357/tcp ; firewall-cmd --reload
```

Use the following CLI command inside a local network to check that the port is open:

```
curl https://PowerPanel_Controller_Hostname:35357/v3 --insecure
```

For more details about authentication, refer to [Authentication](#).

For more details about ports, refer to [Appendix A: Controller and compute ports](#).

## 4.1.4 Resource requirements

The recommended amount of virtual environment resources, such as RAM, CPU, etc., are specified in your [subscription service plan](#). Additionally, ensure that all mandatory parameters for your virtual environments are listed and saved in the subscription service plan.

## 4.2 To install Virtuozzo Hybrid Server CloudBlue connector

---

**Note:** Ensure that a node is added to the VA MN and PowerPanel clusters. The node must be a member of the VA MN IP pool.

---

1. Consider creating a backup before installing the Virtuozzo Hybrid Server CloudBlue connector inside the VA MN container.
2. Run the following to create a new repo file:

```
yum install https://repo.virtuozzo.com/va-mn/vzlinux7/cloudblue-connector-repos.v17.noarch.rpm
```

3. Install the Virtuozzo Hybrid Server CloudBlue connector and its dependencies with the following CLI command:

```
yum install cloudblue-connector-va-pp
```

After the installation, you must update the default configuration file, as described in [Enabling integration](#) on page 8.

## 4.3 To update Virtuozzo Hybrid Server CloudBlue connector

---

**Note:** You can find the update procedure specifics in the corresponding release announcement. Usually, it is just a single-line CLI command.

---

Run the following:

```
yum update cloudblue-connector-va-pp
```

An example of a new configuration file will be created with the `.rpmnew` extension during the update. It does not affect the existing configuration file, which remains active. However, you may use it to update the current configuration file with new options.

## CHAPTER 5

# Enabling integration

To enable integration with CloudBlue Connect, first, check that the Virtuozzo Hybrid Server CloudBlue connector packages are properly installed inside the VA MN container (see *To install Virtuozzo Hybrid Server CloudBlue connector* on page 7).

## 5.1 Configure a config.json file

To ensure the smooth connection of the CloudBlue Connect API with the virtual infrastructure managed by the VA API, adjust a `config.json` file, start and enable the following four applications:

- `cloudblue-fulfillments` processes fulfillments; creates and manages domains, projects, and users.
- `cloudblue-usage` sends usage reports for active assets.
- `cloudblue-usage-files` confirms processed usage files.
- `cloudblue-subscriptions-cleaner` removes a virtual environment and backups for a terminated subscription.

### 5.1.1 To adjust a config.json file

1. Copy the configuration file example to your `config.json` file and open the latter for editing:

```
cp /etc/cloudblue-connector/config.json.example /etc/cloudblue-connector/config.json
vi /etc/cloudblue-connector/config.json
{
  "pva_socket": "/var/opt/pva/mn/mn.sock",
  "pva_connect_timeout": 600,
```

```

    "pva_socket_read_delay": 2,
    "keystone_endpoint": "https://power-panel.local:35357/v3",
    "pp_url": "https://power-panel.local/api/v1",
    "pp_login": "admin",
    "post_hook_script": "/etc/cloudblue-connector/posthook.sh",
    "post_hook_exec_timeout": 120,
    "misc": {
      "domainDeleteOnFail": true,
      "hidePasswordsInLog": true,
      "testMarketplaceId": "MP-43209",
      "testMode": false,
      "orderRamInMegabytes": false
    },
    "apiEndpoint": "https://api.connect.cloud.im/public/v1",
    "products": ["PRD-718-365-521", "PRD-428-165-279", "PRD-713-462-300"],
    "report_usage": ["PRD-718-365-521"],
    "report_suspended": true,
    "dataRetentionPeriod": 15,
    "templates": {
      "PRD-718-365-521": {"grant": "TL-623-078-399", "revoke": "Access to VDC has been revoked"},
      "PRD-428-165-279": {"grant": "TL-581-343-333", "revoke": "Access to VDC has been revoked"},
      "PRD-713-462-300": {"grant": "TL-601-357-392", "revoke": "Access to Power Panel has been revoked"}
    }
  }
}

```

## 2. Change the default parameters:

- 2.1. In "pva\_socket", specify the Virtuozzo Automator UNIX socket. If not changed previously, no additional modifications are required.
- 2.2. In "pva\_connect\_timeout", enter the maximum time (in seconds) while the Virtuozzo Hybrid Server CloudBlue connector waits for the response from Virtuozzo Automator.
- 2.3. In "pva\_socket\_read\_delay", specify the delay between the reading data frame from the Virtuozzo Automator response.
- 2.4. In "keystone\_endpoint", specify the default PowerPanel URL, including the keystone port and endpoint, for example, `http://power-panel.com:35357/v3`.
- 2.5. In "pp\_url", enter the default PowerPanel URL, including the API endpoint, for example, `http://power-panel.com/api/v1`.
- 2.6. In "pp\_login", specify the PowerPanel admin user name.
- 2.7. In "post\_hook\_script", specify a path to your script. The script should include the `subscription_id`, `action`, and `action_result` parameters. For example:

```
#!/bin/bash
```

```

# $1 - subscription_id
# $2 - action ['purchase', 'resume', 'change', 'suspend', 'cancel']
# $3 - action result ['success', 'fail']

LOGFILE="/var/log/cloudblue-connector/post_hook.log"
TIMESTAMP=`date +%Y-%m-%d %H:%M:%S`

echo "[${TIMESTAMP}]: $1 $2 $3" >> ${LOGFILE}
exit 0

```

- 2.8. In "post\_hook\_exec\_timeout", specify the amount of time in seconds allocated for the execution of a post-hook script. When the allowed period of time has ended and the script has not finished executing, the system will forcefully terminate it. If the specified period of time is too short, increase the value or optimize the script.

---

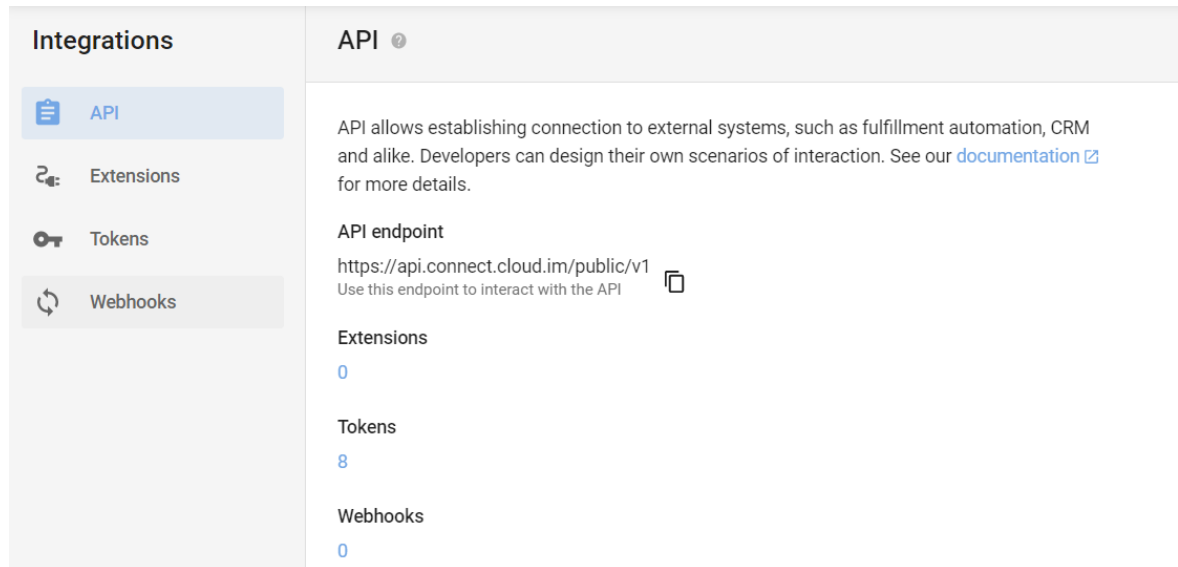
**Note:** The system will not start processing a new request for a subscription until the previous post-hook script is completed or forcefully terminated after the period of time specified in "post\_hook\_exec\_timeout". Then, the system will process the following subscription request in the queue, and the post-hook script will start running again.

---

- 2.9. "misc" contains additional configuration options to define the Virtuozzo Hybrid Server CloudBlue connector behavior:
- 2.9.1. "domainDeleteOnFail" is a parameter used for debugging purposes. Set `false` if you want the virtual environment not deleted in case of a subscription failure. Otherwise, set `true`.
  - 2.9.2. "hidePasswordsInLog" wipes plain-text passwords in the Virtuozzo Hybrid Server CloudBlue connector events output. The default value is `true`.
  - 2.9.3. In "testMarketplaceId", specify the ID of a marketplace used to place asset requests for evaluation. If not set, all asset requests from all marketplaces will be processed, regardless of the "testMode" setting.
  - 2.9.4. In "testMode", set `true` to have requests made in "testMarketplaceId" processed only. Set `false` to have requests made in "testMarketplaceId" ignored. The default value is `false`.
  - 2.9.5. In "orderRamInMegabytes", set `false` to have the requested amount of RAM defined in gigabytes (GB). If `true`, the amount of RAM is specified in megabytes (MB).
- 2.10. In "apiEndpoint", specify the API endpoint to interact with the CloudBlue Connect API copied on the vendor portal. For this:

2.10.1. Go to your CloudBlue Connect vendor portal and click the **Integrations** icon.

2.10.2. Go to the **API** tab and copy the API endpoint.

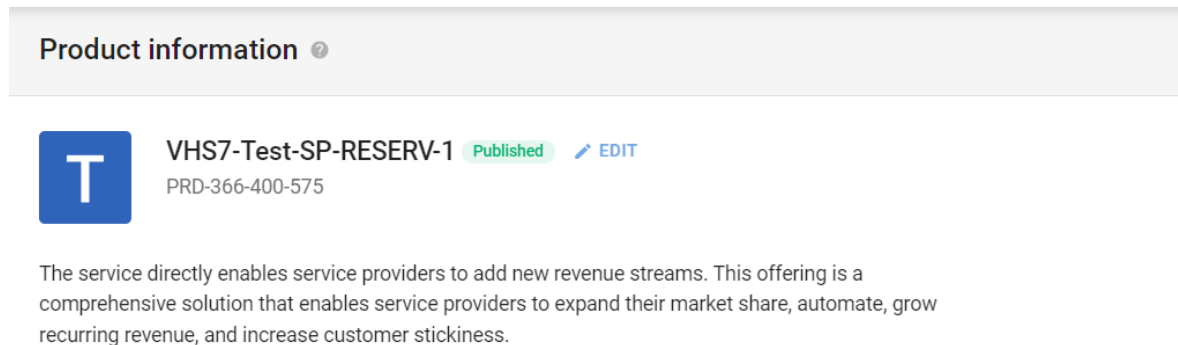


2.11. In "products", specify the list of product IDs copied on the vendor portal. For this:

2.11.1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.

2.11.2. Select the desired product.

2.11.3. Go to the **General** tab and copy the product ID.



2.12. In "report\_usage", specify the IDs of products with the pay-as-you-go resource model, copied on the vendor portal. For this:

2.12.1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.

2.12.2. Select the desired product.

2.12.3. Go to the **General** tab and copy the product ID.

**Product information** ⓘ

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The service directly enables service providers to add new revenue streams. This offering is a comprehensive solution that enables service providers to expand their market share, automate, grow recurring revenue, and increase customer stickiness.

- 2.13. In "report\_suspended", set true if you want a usage report to show data for a subscription when it is suspended. Otherwise, set false. The default value is true.
- 2.14. "dataRetentionPeriod" is the number of days a virtual environment and its backups for a terminated subscription exist. During this period, the virtual environment is stopped, and the user cannot view and manage it via PowerPanel, except for the administrator. After the expiration of this period, the system removes the virtual environment and its existing backups for such a subscription. They are immediately removed during the cancellation request if "dataRetentionPeriod" is set to zero (0).
- 2.15. In "templates", specify template IDs for each product copied on the vendor portal. For this:
  - 2.15.1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
  - 2.15.2. Select the desired product.
  - 2.15.3. Go to the **Embedding** tab and copy the ID specified in the **Approved Templates** box.

The screenshot shows a user interface for managing content. At the top, there are tabs for 'Embedding', 'SUBSCRIPTION', 'TIER 1', and 'TIER 2'. Below this, there are three main content areas:

- Approved Templates:** A section with a '+ ADD' button. It contains a table with columns 'NAME' and 'UPDATED'. The table has one row: 'Default Activation Template' (TL-623-078-399) updated on '03/04/2021 5:51 AM'. There are icons for visibility, edit, and delete.
- Documentation Links:** A section with a '+ ADD' button. It contains a link to 'https://docs.virtuozzo.com/virtuozzo\_hybrid\_infrastructure\_3\_5\_1' with edit and delete icons.
- Other:** A section containing two text blocks: 'Product Description' and 'Getting Started Instructions', both with edit icons.

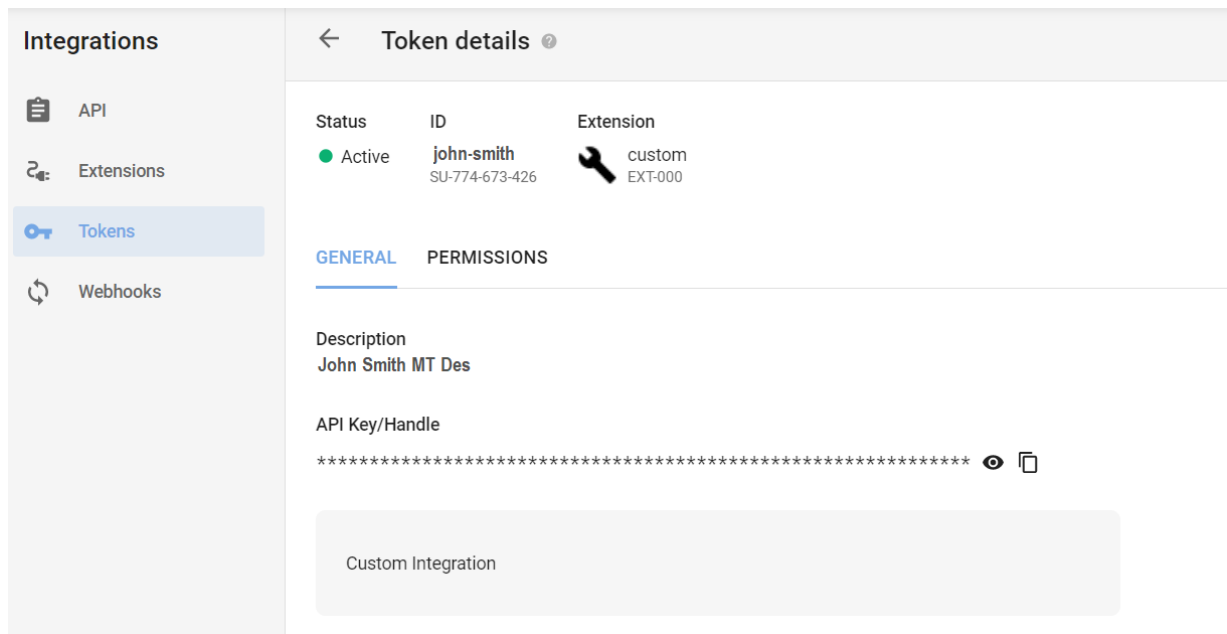
3. For security reasons, the Virtuozzo Hybrid Server CloudBlue connector does not store passwords in plain text. For specifying the CloudBlue API token and PowerPanel admin user password, run `cloudblue-password-manager`.

```
# cloudblue-password-manager [-h] [--set-cloudblue-token]
                             [--set-pp-password]
```

When specifying an API token, enter the ID and API key.

For example, "ApiKey SU-469-692-689:\*\*\*\*\*". Copy the ID and API key on the vendor portal:

- 3.1. Go to your CloudBlue Connect vendor portal and click the **Integrations** icon.
- 3.2. Go to the **Tokens** tab and select the desired token.
- 3.3. On the **Token details** page, copy the ID and API key.



4. Enable and start all four services, such as `cloudblue-fulfillments.service`, `cloudblue-usage.service`, `cloudblue-usage-files.service`, and `cloudblue-subscriptions-cleaner.service`:

**Note:** To ensure that the `cloudblue-fulfillments` service runs properly, execute the following:

```
cloudblue-fulfillments
```

Additionally, you can verify `cloudblue-usage`, `cloudblue-usage-files`, and `cloudblue-subscriptions-cleaner`. For example:

```
cloudblue-usage
```

```
cloudblue-usage-files
```

```
cloudblue-subscriptions-cleaner
```

```
systemctl enable cloudblue-fulfillments.service
systemctl start cloudblue-fulfillments.service
```

```
systemctl enable cloudblue-usage.service
systemctl start cloudblue-usage.service
```

```
systemctl enable cloudblue-usage-files.service
systemctl start cloudblue-usage-files.service
```

```
systemctl enable cloudblue-subscriptions-cleaner.service
systemctl start cloudblue-subscriptions-cleaner.service
```

**Note:** If you want to change a PowerPanel admin user password, use the same API key and generate a new password. Otherwise, you can delete the `connector.pem` file, implying the subsequent generation of a new API key and password. Encrypted passwords are stored in the `passwords_db.sqlite3` database.

```
# cd /etc/cloudblue-connector/ ; ls -la
-rw-r--r-- 1 root root 4619 May 15 19:49 config-logging.json
-rw-r--r-- 1 root root 2471 Jun 19 17:22 config.json
-rw-r--r-- 1 root root 4567 Jun 19 17:27 connector.pem
-rw-r--r-- 1 root root 9753 Jun 19 17:27 passwords_db.sqlite3
```

## CHAPTER 6

# Creating products

A product contains all services a vendor exposes for sale, including product items, sales models, requirements for product orders, etc. You can create two product types:

- Virtual environments (virtual machines and containers)
- PowerPanel user accounts

## 6.1 Creating a virtual environment

Follow this procedure to create and configure virtual environments (virtual machines and containers).

### 6.1.1 To create a virtual environment

1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
2. Click the **+ Create product** button in the upper-right corner.
3. In the **Create product** dialog, do the following:
  - 3.1. In **Name**, enter a product name.
  - 3.2. Select the desired primary location in the **Primary Locale** drop-down list.
  - 3.3. Choose the desired provider, and in the **Categories** drop-down list, select **Infrastructure**. Leave the default value in the **Variant** drop-down list.
  - 3.4. Click **Create**.

**Create product**

Virtuozzo (Provider Evaluation)

Categories  
Infrastructure

Variant  
No variants available

CANCEL CREATE

The product ID will be automatically generated.

To properly configure your newly created product, follow the instructions below.

### 6.1.1.1 Configure general information

Add general information about the product you have created.

#### 6.1.1.1.1 To edit general information

1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
2. Select the desired product and do the following:
  - 2.1. Go to the **General** tab and click **Edit** next to the product name to change the product name or add a product icon and a short description.

---

**Note:** Use a PNG image with a transparent background for an icon.

---

- 2.2. Go to the **General** > **Overview** tab, and then, in the **Overview** box, click **Edit** to add a product description.

## Product information ?

T

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The service directly enables service providers to add new revenue streams. This offering is a comprehensive solution that enables service providers to expand their market share, automate, grow recurring revenue, and increase customer stickiness.

**OVERVIEW**   MEDIA

---

CLOUDBLUE   INGRAM MICRO CLC

### Overview

EDIT

A text **description** of the product. This text will be seen by providers that have access to this product and can be used to populate other systems, like [CloudBlue Catalog](#).

The **first sentence** (about 3-4 lines) of this description **counts the most**. So please start with an attention-grabbing sentence that pitches users and clearly sets out what the product is intended for.

- 2.3. Go to the **General** > **Media** tab and click + in a box to add a media file for marketing purposes.

### 6.1.1.2 Manage settings

Edit settings for the product you have created.

#### 6.1.1.2.1 To edit settings

1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
2. Select the desired product.
3. Go to the **Settings** tab and click the **Edit** button in the upper-right corner.
4. In the **Edit settings** dialog, do the following:
  - 4.1. Turn on the **Administrative Hold** toggle to manage subscriptions to the created product, such as suspending and resuming a subscription.
  - 4.2. Turn on the **Consumption reporting for Reservation Items** toggle to support real-time consumption reporting for the reservation items.
  - 4.3. Turn on the **Pay-as-you-go** toggle to enable the pay-as-you-go model, turn on the **Dynamic Items** toggle, and select **QT** as a reporting schema.
  - 4.4. Select **Auto-renewal** as renewal management.
  - 4.5. Under **Subscription — Change Request**, turn on the **Editable Ordering Parameters** toggle to edit ordering parameters when creating a change request.
  - 4.6. Click **Save**.

## Edit settings

**Administrative Hold**  
Product supports Suspend & Resume actions for the given Subscription.

---

**Consumption reporting for Reservation Items**  
Product supports real-time reporting of consumption for the Reservation items.

---

**Pay-as-you-go**  
Product has pay-as-you-go setting, where the Vendor is required to periodically submit Usage Files to your partners.

**Dynamic Items**  
Product reports dynamic items in the Usage File, i.e. the ones that were not pre-declared in the Product Definition

---

**Future Charges**  
Product can generate usage reports with charges assigned to future dates.

**CANCEL** **SAVE**

### 6.1.1.3 Create product items

Product items are compute resources in Virtuozzo Hybrid Server that customers order and pay for, such as CPU, CPU speed, RAM, storage, and floating IP addresses. Product items are categorized according to two billing models:

- A reservation model provides a limited number of compute resources.

- A pay-as-you-go model implies unlimited resources, and charges are made according to usage reports.

#### 6.1.1.3.1 To create product items following the reservation model

1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
2. Select the desired product.
3. Go to the **Items > Reservation** tab and click the **+ Create item** button.
4. In the dialog that appears, do as follows:
  - 4.1. In **Create Item - Step 1 General**, enter the item name, manufacturer part number, and description. For the manufacturer part number, refer to the table below. **Group Manufacturer Part Number** and **Group Name** are optional. Leave the default value in the **Parent Item** drop-down list and click **Next**.

<b>Resource</b>	<b>Manufacturer part number</b>
CPU	CPU_limit
CPU_MHz	CPU_MHz_limit
RAM	RAM_limit
Storage	Storage_limit
floating IP	floating_ip_limit

---

Manufacturer Part Number \*  
CPU\_limit

---

Group Manufacturer Part Number

---

Group Name

---

Description \*  
CPU\_limit

---

Parent Item  
—

---

4.2. In **Create Item - Step 2 Type**, do the following:

4.2.1. In the **Billing period** drop-down list, select the billing period.

4.2.2. In the **Commitment period** drop-down list, select the commitment period.

4.2.3. In the **Unit** drop-down list, select **Units**.

Billing period  
1 month

Commitment period  
No commitment

Unit  
Units

4.2.4. Click **Create**.

After adding all the five compute resources, you will have the following list:

Items ? RESERVATION PAY AS YOU GO + CREATE ITEM

REFRESH FILTER COLUMNS Rows per page 50 Total: 5 rows

NAME	PERIOD	MPN	GROUP MPN	UNIT	STATUS	
<b>CPU</b> PRD-366-400-575-00001	1 month No commitment	CPU_limit	–	Units	Published	
<b>CPU_MHz</b> PRD-366-400-575-00002	1 month No commitment	CPU_MHz_limit	–	Units	Published	
<b>RAM</b> PRD-366-400-575-00003	1 month No commitment	RAM_limit	–	Units	Published	
<b>Storage</b> PRD-366-400-575-00004	1 month No commitment	Storage_limit	–	Units	Published	
<b>floating ip</b> PRD-366-400-575-00005	1 month No commitment	floating_ip_limit	–	Units	Published	

Previous 1 Next Rows per page 50 Total: 5 rows

**6.1.1.3.2 To create product items following the pay-as-you-go model model**

- 1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
- 2. Select the desired product.
- 3. Go to the **Items > Pay as you go** tab and click the **+ Create item** button.

---

**Important:** Ensure the **Pay-as-you-go** option is enabled on the **Settings** tab on the product page.

---

4. In the dialog that appears, do as follows:

4.1. In **Create Item - Step 1 General**, enter the item name, manufacturer part number, and description. For the manufacturer part number, refer to the table below. **Group Manufacturer Part Number** and **Group Name** are optional. Leave the default value in the **Parent Item** drop-down list and click **Next**.

<b>Resource</b>	<b>Manufacturer part number</b>
Outgoing Traffic consumption	Outgoing_Traffic_consumption
Incoming Traffic consumption	Incoming_Traffic_consumption
Floating IP consumption	Floating_IP_consumption
CPU consumption	CPU_consumption
Storage consumption	Storage_consumption
RAM consumption	RAM_consumption
Backup Storage consumption	Backup_storage_consumption

Name \*  
Outgoing Traffic consumption

---

Manufacturer Part Number \*  
Outgoing\_Traffic\_consumption

---

Group Manufacturer Part Number

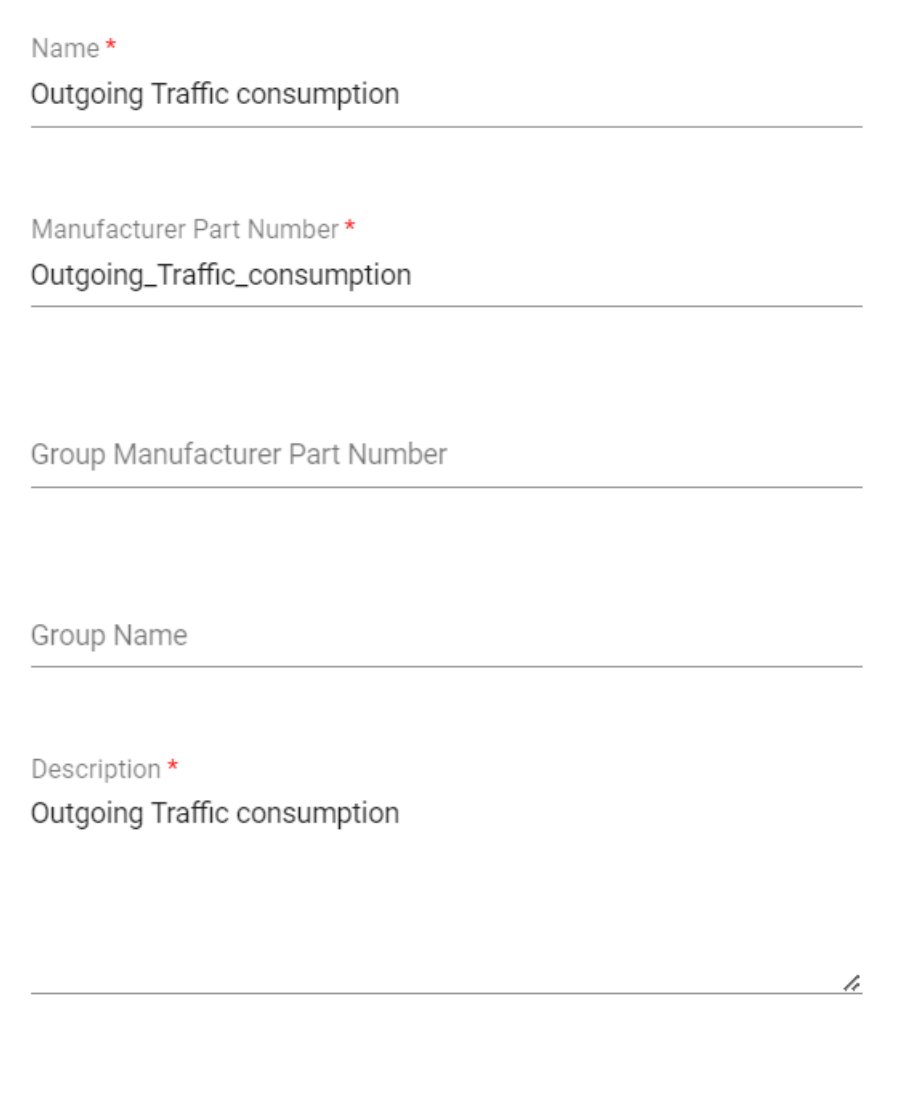
---

Group Name

---

Description \*  
Outgoing Traffic consumption

---



4.2. In **Create Item - Step 2 Type**, do the following:

- For Outgoing\_Traffic\_consumption and Incoming\_Traffic\_consumption, in the **Precision** drop-down list, select **Decimal with 4 digits precision (Example: 14.1234)**, and then, in the **Unit** drop-down list, select **MB\*H**.
- For Floating\_IP\_consumption, CPU\_consumption, and Storage\_consumption, in the **Precision** drop-down list, choose **Integer (Example: 42)**, and then, in the **Unit** drop-down list, select **Unit\*H**.
- For RAM\_consumption and Backup\_storage\_consumption, in the **Precision** drop-down list, choose **Decimal with 4 digits precision (Example: 14.1234)**, and then, in the **Unit** drop-down list, select **Unit\*H**.

Precision  
 Decimal with 4 digits precision (Example: 14.1234) ▼

---

Unit  
 MB\*H ▼

---

**CANCEL** **BACK** **CREATE**

Click **Create**.

After adding all the compute resources, you will have the following list:

Items RESERVATION PAY AS YOU GO + CREATE ITEM

REFRESH FILTER COLUMNS Rows per page 50 Total: 7 rows

NAME	MPN	GROUP MPN	UNIT	PRECISION	STATUS	
<a href="#">Outgoing Traffic consumption</a> PRD-366-400-575-00006	Outgoing_Traffic_consumption	—	MB*H	4 Digit Example: 1...	Published	
<a href="#">Incoming Traffic consumption</a> PRD-366-400-575-00007	Incoming_Traffic_consumption	—	MB*H	4 Digit Example: 1...	Published	
<a href="#">Floating IP consumption</a> PRD-366-400-575-00008	Floating_IP_consumption	—	Unit*H	Integer Example: 42	Published	
<a href="#">CPU consumption</a> PRD-366-400-575-00009	CPU_consumption	—	Unit*H	Integer Example: 42	Published	
<a href="#">Storage consumption</a> PRD-366-400-575-00010	Storage_consumption	—	Unit*H	Integer Example: 42	Published	
<a href="#">RAM consumption</a> PRD-366-400-575-00011	RAM_consumption	—	Unit*H	4 Digit Example: 1...	Published	
<a href="#">Backup Storage consumption</a> PRD-366-400-575-00012	Backup_storage_consumption	—	Unit*H	4 Digit Example: 1...	Published	

Previous 1 Next Rows per page 50 Total: 7 rows

#### 6.1.1.4 Create ordering parameters

Ordering parameters are specified by customers when ordering a product.

For Virtuozzo Hybrid Server, you need to add the following ordering parameters:

Parameter	ID
Operation System	os_template
VE Hostname	domain_hostname
VE Password	ve_password
Migration UUID	migration_uuid

#### 6.1.1.4.1 To create the os\_template parameter

1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
2. Select the desired product.
3. Go to the **Ordering Parameters > Subscription** tab and click the **+ Create parameter** button.
4. In the dialog that appears, do the following:
  - 4.1. In **Create Ordering Parameter — Step 1 Type**, do as follows:
    - 4.1.1. In the **Type** drop-down list, select **Dropdown**.
    - 4.1.2. In the **Option label** column, enter the name of an operating system. In the **Option value** column, specify the template key. If you want to set an operating system as required, select **Default** next to it.
    - 4.1.3. In **Hint text**, enter additional information that will appear next to each option.
    - 4.1.4. Click **Next**.
  - 4.2. In **Create Ordering Parameter — Step 2 Constraints**, turn on the **Required** toggle to make the parameter mandatory. Click **Next**.
  - 4.3. **Create Ordering Parameter — Step 3 Dependencies** is optional and can be skipped. Click **Next**.
  - 4.4. In **Create Ordering Parameter — Step 4 Details**, enter the parameter ID, **os\_template**, title, and description. Click **Create**.

ID *	
os_template	
Must be unique for this product.	11 / 64
Title *	
Operating System	
Used as a label for inputs.	16 / 100
Description *	
os_template	
Used as hint for inputs.	11 / 100

- 4.5. In **Create Ordering Parameter — Step 5 Summary**, review the parameter summary and click **Close**.

Once the os\_template parameter is created, you can edit it as a list of supported and provided OS templates with different names and preinstalled packages.

#### 6.1.1.4.2 To create the domain\_hostname parameter

1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
2. Select the desired product.
3. Go to the **Ordering Parameters > Subscription** tab and click the **+ Create parameter** button.
4. In the dialog that appears, do the following:
  - 4.1. In **Create Ordering Parameter — Step 1 Type**, in the **Type** drop-down list, select **Single line text** to enter a value for the parameter in a text line. In **Placeholder text** and **Hint text**, enter additional information about the parameter. Click **Next**.
  - 4.2. In **Create Ordering Parameter — Step 2 Constraints**, turn on the **Required** toggle to make the parameter mandatory. Click **Next**.
  - 4.3. **Create Ordering Parameter — Step 3 Dependencies** is optional and can be skipped. Click **Next**.
  - 4.4. In **Create Ordering Parameter — Step 4 Details**, enter the parameter ID, **domain\_hostname**, title, and description. Click **Create**.

- 4.5. In **Create Ordering Parameter — Step 5 Summary**, review the parameter summary and click **Close**.

#### 6.1.1.4.3 To create the ve\_password parameter

1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
2. Select the desired product.
3. Go to the **Ordering Parameters > Subscription** tab and click the **+ Create parameter** button.
4. In the dialog that appears, do the following:
  - 4.1. In **Create Ordering Parameter — Step 1 Type**, in the **Type** drop-down list, select **Password**. In **Min symbols**, specify the required minimum number of symbols. In **Max symbols**, specify the maximum number of symbols allowed. Click **Next**.
  - 4.2. In **Create Ordering Parameter — Step 2 Constraints**, turn on the **Required** toggle to make the parameter mandatory. Click **Next**.
  - 4.3. **Create Ordering Parameter — Step 3 Dependencies** is optional and can be skipped. Click **Next**.
  - 4.4. In **Create Ordering Parameter — Step 4 Details**, enter the parameter ID, **ve\_password**, title, and description. Click **Create**.
  - 4.5. In **Create Ordering Parameter — Step 5 Summary**, review the parameter summary and click **Close**.

#### 6.1.1.4.4 To create the migration\_uuid parameter

1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
2. Select the desired product.
3. Go to the **Ordering Parameters > Subscription** tab and click the **+ Create parameter** button.
4. In the dialog that appears, do the following:
  - 4.1. In **Create Ordering Parameter — Step 1 Type**, in the **Type** drop-down list, select **Single line text** to enter a value for the parameter in a text line. In **Placeholder text** and **Hint text**, enter additional information about the parameter. Click **Next**.
  - 4.2. In **Create Ordering Parameter — Step 2 Constraints**, leave all the toggles turned off. Click **Next**.

- 4.3. **Create Ordering Parameter — Step 3 Dependencies** is optional and can be skipped. Click **Next**.
- 4.4. In **Create Ordering Parameter — Step 4 Details**, enter the parameter ID, **migration\_uuid**, title, and description. Click **Create**.
- 4.5. In **Create Ordering Parameter — Step 5 Summary**, review the parameter summary and click **Close**.

After adding all the ordering parameters, you will have the following list:

Ordering Parameters + CREATE PARAMETER

Such parameters are used to provide data that is typically specified by a consumer during the ordering phase (for example, an email, phone number, address and so on).

REFRESH FILTER COLUMNS Rows per page 10 Total: 4 rows

NAME	TYPE	OPTIONS	DEPEND ON	CONSTRAINTS
<a href="#">Operation System</a> os_template	Dropdown	Options: 11	—	
<a href="#">VE Hostname</a> domain_hostname	Single line text	Hint: I am the hint text	—	
<a href="#">VE Password</a> ve_password	Password	Min-max values: [5, 100]	—	
<a href="#">Migration UUID</a> migration_uuid	Single line text	Hint: I am the hint text	—	—

Previous 1 Next Rows per page 10 Total: 4 rows

### 6.1.1.5 Create fulfillment parameters

Fulfillment parameters are specified by the vendor when fulfilling a product request.

For Virtuozzo Hybrid Server, you need to add the following fulfillment parameters:

Parameter	ID
VE ID	domain_id
VE Name	domain_name
VE IPs	domain_ips
Subscription resume date	resume_date

**Note:** By default, the system automatically creates two fulfillment parameters, such as *Title of the Parameter A* and *Title of the Parameter B*. To be able to delete them, go to the **Embedding** > **Subscription** tab, and then, in the **Approved Templates** box, click and delete the following text:

The value of `{{ param_a.title }}` is `{{ param_a.value }}`

The value of `{{ param_b.title }}` is `{{ param_b.value }}`

Add a new one and click **Save**. For example:

VE OS: `{{ os_template.value }}`

IP: `{{ domain_ips.value }}`

User: root/Administrator

Password: `{{ ve_password.value }}`

---

#### 6.1.1.5.1 To create the `domain_id`, `domain_name`, and `domain_ips` parameters

1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
2. Select the desired product.
3. Go to the **Fulfillment Parameters** > **Subscription** tab and click the + **Create parameter** button.
4. In the dialog that appears, do the following:
  - 4.1. In **Create Fulfillment Parameter — Step 1 Type**, in the **Type** drop-down list, select **Single line text** to enter a value for the parameter in a text line. In **Placeholder text** and **Hint text**, enter additional information about the parameter. Click **Next**.
  - 4.2. In **Create Fulfillment Parameter — Step 2 Constraints**, turn on the **Required** toggle to make the parameter mandatory. Click **Next**.
  - 4.3. In **Create Fulfillment Parameter — Step 3 Details**, enter the parameter ID, which is `domain_id`, `domain_name`, or `domain_ips`, title, and description. Click **Create**.

**Create Fulfillment Parameter — Step 3**

Type ✓

Constraints ✓

**3 Details**

4 Summary

ID \*  
domain\_ips  
Must be unique for this product. 10 / 64

Title \*  
VE IPs  
Used as a label for inputs. 6 / 100

Description \*  
VE IPs  
Used as hint for inputs. 6 / 100

CANCEL BACK CREATE

- 4.4. In **Create Fulfillment Parameter — Step 4 Summary**, review the parameter summary and click **Close**.

#### 6.1.1.5.2 To create the `resume_date` parameter

1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
2. Select the desired product.
3. Go to the **Fulfillment Parameters** > **Subscription** tab and click the **+ Create parameter** button.
4. In the dialog that appears, do the following:
  - 4.1. In **Create Fulfillment Parameter — Step 1 Type**, in the **Type** drop-down list, select **Single line text** to enter a value for the parameter in a text line. In **Placeholder text** and **Hint text**, enter additional information about the parameter. Click **Next**.

- 4.2. In **Create Fulfillment Parameter — Step 2 Constraints**, leave all the toggles turned off. Click **Next**.
- 4.3. In **Create Fulfillment Parameter — Step 3 Details**, enter the parameter ID, which is **resume\_date**, title, and description. Click **Create**.
- 4.4. In **Create Fulfillment Parameter — Step 4 Summary**, review the parameter summary and click **Close**.

After adding all the fulfillment parameters, you will have the following list:

**Fulfillment Parameters** + CREATE PARAMETER

SUBSCRIPTION TIER 1 TIER 2

Additional pieces of information that are required to complete the fulfillment phase of a purchase order e.g., a license, product activation key, etc). In general, such parameters are specified by vendors.

REFRESH FILTER COLUMNS Rows per page 10 Total: 4 rows

NAME	TYPE	OPTIONS	CONSTRAINTS	
<a href="#">VE ID</a> domain_id	Single line text	Hint: I am the hint text		
<a href="#">VE Name</a> domain_name	Single line text	Hint: I am the hint text		
<a href="#">VE IPs</a> domain_ips	Single line text	Hint: I am the hint text		
<a href="#">Subscription resume date</a> resume_date	Single line text	Hint: I am the hint text	—	

Rows per page 10 Total: 4 rows

### 6.1.1.6 Create and define a configuration parameter

Configuration parameters are metadata specified during the product configuration. Virtuozzo Hybrid Server has only one configuration parameter, *item\_limit*, which enables defining maximum resource limits for the reservation model.

Parameter	ID
item_limit	item_limit

#### 6.1.1.6.1 To create a configuration parameter

1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
2. Select the desired product.
3. Go to the **Configuration > Keys** tab and click the **+ Add key** button in the upper-right corner.

4. In the dialog that appears, do the following:
  - 4.1. In **Create Configuration Key - Step 1 Type**, in the **Type** drop-down list, select **Single line text** to enter a value for the parameter in a text line. In **Placeholder text** and **Hint text**, enter additional information about the parameter. Click **Next**.
  - 4.2. In **Create Configuration Key - Step 2 Scope**, select **Item** and click **Next**.
  - 4.3. In **Create Configuration Key - Step 3 Constraints**, turn on the **Required** toggle and click **Next**.
  - 4.4. In **Create Configuration Key - Step 4 Details**, specify the parameter ID, `item_limit`, title, and description. Click **Create**.

**Create Configuration Key – Step 4**

✓ Type

✓ Scope

✓ Constraints

4 Details

5 Summary

**ID \***  
  
Must be unique for this product. 10 / 64


**Title \***  
  
Used as a label for inputs. 10 / 100

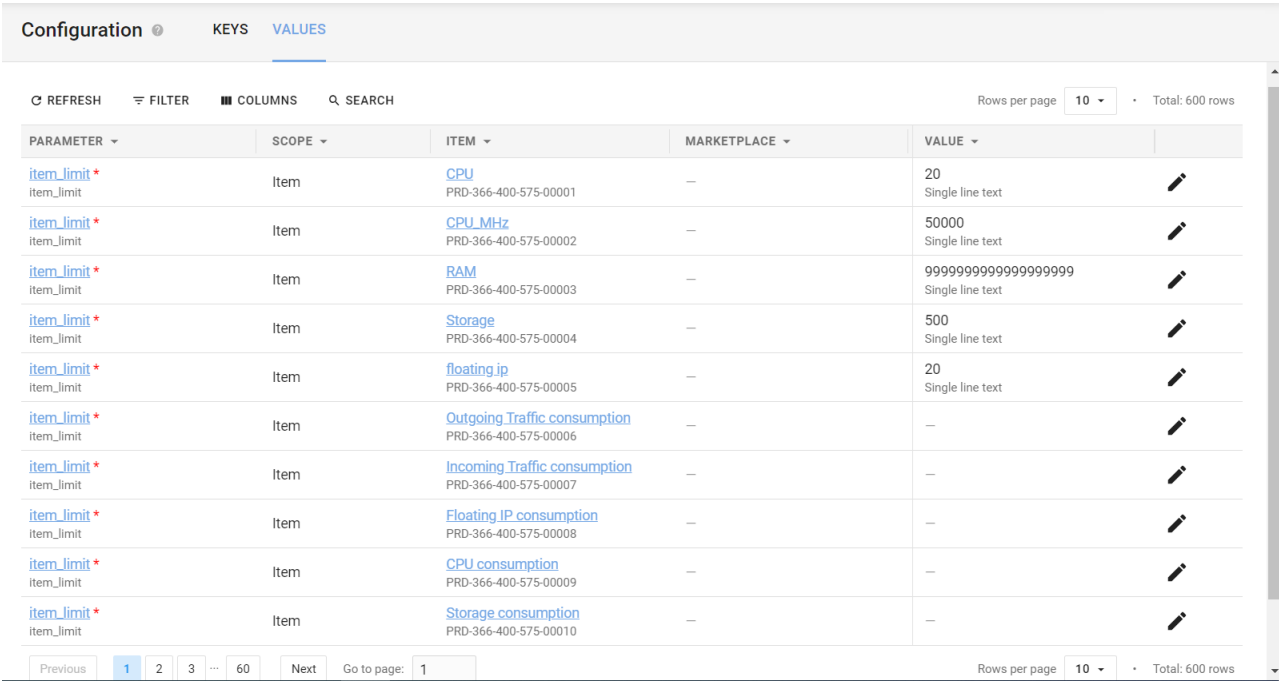
**Description \***  
  
Used as hint for inputs. 10 / 100











CANCEL
BACK
CREATE

- 4.5. In **Create Configuration Key - Step 5 Summary**, view the details of the created parameter and click **Go to details** to view more detailed information or click **Close**.

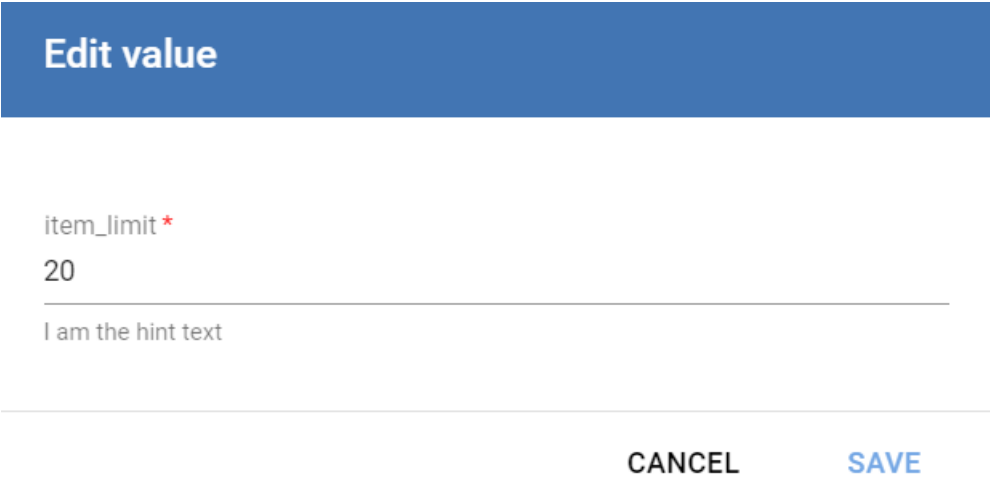
6.1.1.6.2 To define a configuration parameter

- 1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
- 2. Select the desired product.
- 3. Go to the **Configuration > Values** tab and click  next to the value you want to change.



PARAMETER	SCOPE	ITEM	MARKETPLACE	VALUE	
item_limit * item_limit	Item	CPU PRD-366-400-575-00001	--	20 Single line text	
item_limit * item_limit	Item	CPU_MHz PRD-366-400-575-00002	--	50000 Single line text	
item_limit * item_limit	Item	RAM PRD-366-400-575-00003	--	99999999999999999999 Single line text	
item_limit * item_limit	Item	Storage PRD-366-400-575-00004	--	500 Single line text	
item_limit * item_limit	Item	floating_ip PRD-366-400-575-00005	--	20 Single line text	
item_limit * item_limit	Item	Outgoing_Traffic_consumption PRD-366-400-575-00006	--	--	
item_limit * item_limit	Item	Incoming_Traffic_consumption PRD-366-400-575-00007	--	--	
item_limit * item_limit	Item	Floating_IP_consumption PRD-366-400-575-00008	--	--	
item_limit * item_limit	Item	CPU_consumption PRD-366-400-575-00009	--	--	
item_limit * item_limit	Item	Storage_consumption PRD-366-400-575-00010	--	--	

- 4. In the **Edit value** dialog, set a new value and click **Save**.



**Edit value**

item\_limit \*

20

I am the hint text

CANCEL SAVE

- 5. Repeat the steps for each item you need to modify.

### 6.1.1.7 Localization

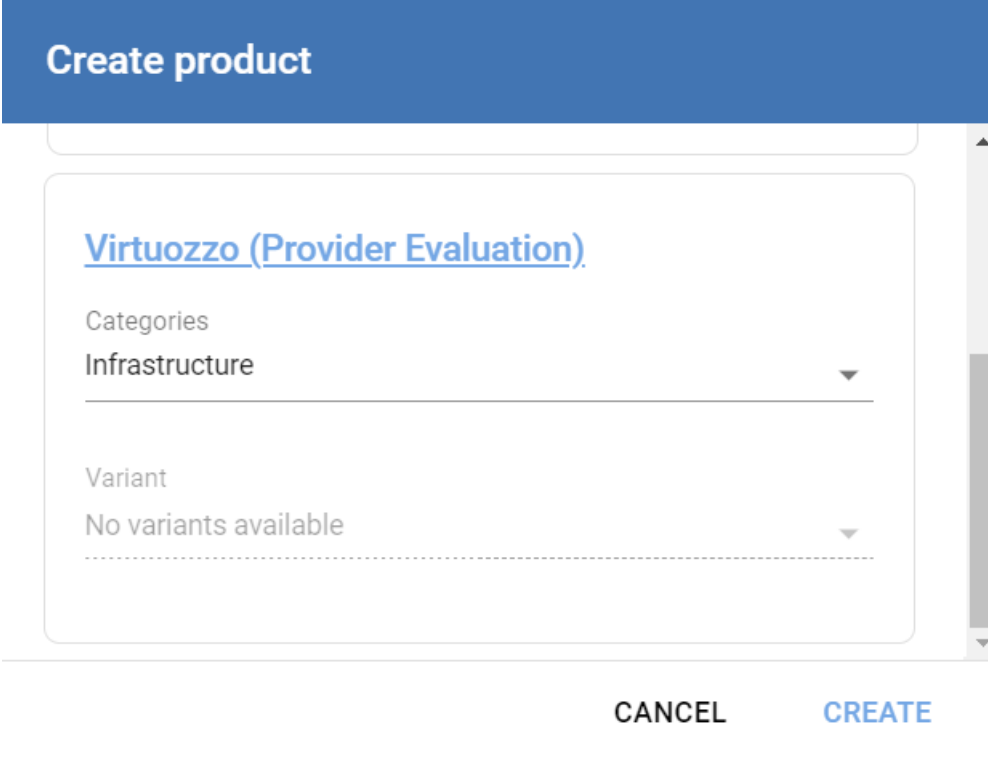
You can manage the localization of a created product. On the product page, go to the **Localization** tab, where you can add the localization by uploading a file with the translated text.

## 6.2 Creating a PowerPanel user account

Follow this procedure to create and configure PowerPanel user accounts.

### 6.2.1 To create a PowerPanel user account

1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
2. Click the + **Create product** button in the upper-right corner.
3. In the **Create product** dialog, do the following:
  - 3.1. In **Name**, enter a product name.
  - 3.2. Select the desired primary location in the **Primary Locale** drop-down list.
  - 3.3. Choose the desired provider, and in the **Categories** drop-down list, select **Infrastructure**. Leave the default value in the **Variant** drop-down list.
  - 3.4. Click **Create**.



**Create product**

**Virtuozzo (Provider Evaluation)**

Categories  
Infrastructure

Variant  
No variants available

CANCEL CREATE

The product ID will be automatically generated.

To properly configure your newly created product, follow the instructions below.

### 6.2.1.1 Configure general information

Add general information about the product you have created.

#### 6.2.1.1.1 To edit general information

1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
2. Select the desired product and do the following:
  - 2.1. Go to the **General** tab and click **Edit** next to the product name to change the product name or add a product icon and a short description.


---

**Note:** Use a PNG image with a transparent background for an icon.

---

- 2.2. Go to the **General** > **Overview** tab, and then, in the **Overview** box, click **Edit** to add a product description.

**Product information** ⓘ



**VHS7-Test-Power-Panel-1** Published [EDIT](#)

PRD-713-462-300

The service directly enables service providers to add new revenue streams. This offering is a comprehensive solution that enables service providers to expand their market share, automate, grow recurring revenue, and increase customer stickiness.

OVERVIEW
MEDIA
VIRTUOZZO (PROVIDER EVALUATION)
ACME PROVIDER ⓘ

Overview
[EDIT](#)

- 2.3. Go to the **General** > **Media** tab and click + in a box to add a media file for marketing purposes.

## 6.2.1.2 Manage settings

Edit settings for the product you have created.

### 6.2.1.2.1 To edit settings

1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
2. Select the desired product.
3. Go to the **Settings** tab and click the **Edit** button in the upper-right corner.
4. In the **Edit settings** dialog, do the following:
  - 4.1. Turn on the **Administrative Hold** toggle to manage subscriptions to the created product, such as suspending and resuming a subscription.

- 4.2. Turn on the **Pay-as-you-go** toggle to enable the pay-as-you-go model, turn on the **Dynamic Items** toggle, and select **QT** as a reporting schema.
- 4.3. Select **Auto-renewal** as renewal management.
- 4.4. Under **Subscription — Change Request**, turn on the **Editable Ordering Parameters** toggle to edit ordering parameters when creating a change request.
- 4.5. Click **Save**.

## Edit settings

---

**Administrative Hold**  
Product supports Suspend & Resume actions for the given Subscription.

---

**Consumption reporting for Reservation Items**  
Product supports real-time reporting of consumption for the Reservation items.

---

**Pay-as-you-go**  
Product has pay-as-you-go setting, where the Vendor is required to periodically submit Usage Files to your partners.

**Dynamic Items**  
Product reports dynamic items in the Usage File, i.e. the ones that were not pre-declared in the Product Definition

---

**Future Charges**  
Product can generate usage reports with charges assigned to future dates.

**CANCEL** **SAVE**

### 6.2.1.3 Create a product item

You must create only one default item for a PowerPanel user account product.

#### 6.2.1.3.1 To add a product item

1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
2. Select the desired product.
3. Go to the **Items > Reservation** tab and click the **+ Create item** button.
4. In the dialog that appears, do as follows:
  - 4.1. In **Create Item - Step 1 General**, enter the item name, manufacturer part number, and description. For the manufacturer part number, refer to the table below. **Group Manufacturer Part Number** and **Group Name** are optional. Leave the default value in the **Parent Item** drop-down list and click **Next**.

<b>Resource</b>	<b>Manufacturer part number</b>
Power Panel	power_panel

---

Manufacturer Part Number \*  
power\_panel

---

Group Manufacturer Part Number

---

Group Name

---

Description \*  
power\_panel

---

Parent Item  
—

---

4.2. In **Create Item - Step 2 Type**, do the following:

4.2.1. In the **Billing period** drop-down list, select the billing period.

4.2.2. In the **Commitment period** drop-down list, select the commitment period.

4.2.3. In the **Unit** drop-down list, select **Units**.

Billing period  
1 month

---

Commitment period  
No commitment

---

Unit  
Units

---

4.2.4. Click **Create**.

After adding the resource, you will have the following list:

Items <span>🔍</span> RESERVATION PAY AS YOU GO <span style="float: right;">+ CREATE ITEM</span>						
<span>🔄 REFRESH</span> <span>🔍 FILTER</span> <span>📄 COLUMNS</span> <span style="float: right;">Rows per page: 50 · Total: 1 rows</span>						
NAME	PERIOD	MPN	GROUP MPN	UNIT	STATUS	
<a href="#">Power Panel</a> <small>PRD-713-462-300-00001</small>	1 month <small>No commitment</small>	power_panel	–	Units	<span style="color: green;">✔</span> Published <span style="float: right;">✎ ⋮</span>	
<span>Previous</span> <span style="background-color: #e0e0e0; padding: 2px;">1</span> <span>Next</span> <span style="float: right;">Rows per page: 50 · Total: 1 rows</span>						

### 6.2.1.4 Create an ordering parameter

Ordering parameters are specified by customers when ordering a product.

For Virtuozzo Hybrid Server, you need to add the following ordering parameter:

Parameter	ID
Power Panel Password	pp_password

#### 6.2.1.4.1 To add an ordering parameter

1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
2. Select the desired product.
3. Go to the **Ordering Parameters > Subscription** tab and click the **+ Create parameter** button.
4. In the dialog that appears, do the following:
  - 4.1. In **Create Ordering Parameter — Step 1 Type**, select **Password** in the **Type** drop-down list. In **Min symbols**, specify the required minimum number of symbols. In **Max symbols**, specify the maximum number of symbols allowed. Click **Next**.
  - 4.2. In **Create Ordering Parameter — Step 2 Constraints**, turn on the **Required** toggle to make the parameter mandatory. Click **Next**.
  - 4.3. **Create Ordering Parameter — Step 3 Dependencies** is optional and can be skipped. Click **Next**.
  - 4.4. In **Create Ordering Parameter — Step 4 Details**, enter the parameter ID, **pp\_password**, title, and description. Click **Create**.

ID \*  
pp\_password  
Must be unique for this product. 11 / 64

Title \*  
Power Panel Password  
Used as a label for inputs. 20 / 100

Description \*  
Power Panel Password  
Used as hint for inputs. 20 / 100

CANCEL BACK CREATE

4.5. In **Create Ordering Parameter — Step 5 Summary**, review the parameter summary and click **Close**.

After adding the ordering parameter, you will have the following list:

Ordering Parameters + SUBSCRIPTION TIER 1 TIER 2 + CREATE PARAMETER

Such parameters are used to provide data that is typically specified by a consumer during the ordering phase (for example, an email, phone number, address and so on).

REFRESH FILTER COLUMNS Rows per page 10 Total: 1 rows

NAME	TYPE	OPTIONS	CONSTRAINTS
<a href="#">Power Panel Password</a> pp_password	Password	Min-max values: [1, 100]	

Previous 1 Next Rows per page 10 Total: 1 rows

### 6.2.1.5 Create fulfillment parameters

Fulfillment parameters are specified by the vendor when fulfilling a product request.

For Virtuozzo Hybrid Server, you need to add the following fulfillment parameters:

Parameter	ID
Power Panel url	pp_url
Power Panel User	pp_user

#### 6.2.1.5.1 To add a fulfillment parameter

**Note:** By default, the system automatically creates two fulfillment parameters, such as *Title of the Parameter A* and *Title of the Parameter B*. To be able to delete them, go to the **Embedding** > **Subscription** tab, and then,

in the **Approved Templates** box, click  and delete the following text:

*The value of {{ param\_a.title }} is {{ param\_a.value }}*

*The value of {{ param\_b.title }} is {{ param\_b.value }}*

Add a new one and click **Save**. For example:

*Access to PowerPanel granted.*

*URL: {{ pp\_url.value }}*

*Login: {{ pp\_user.value }}*

*Password: {{ pp\_password.value }}*

1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
2. Select the desired product.
3. Go to the **Fulfillment Parameters** > **Subscription** tab and click the **+ Create parameter** button.
4. In the dialog that appears, do the following:
  - 4.1. In **Create Fulfillment Parameter — Step 1 Type**, do as follows:
    - For pp\_url, in the **Type** drop-down list, select **URL** to specify the link to the PowerPanel

dashboard. In **Placeholder text** and **Hint text**, enter additional information about the parameter.

- For `pp_user`, in the **Type** drop-down list, select **Single line text** to enter a value for the parameter in a text line. In **Placeholder text** and **Hint text**, enter additional information about the parameter.

Click **Next**.

- 4.2. In **Create Fulfillment Parameter — Step 2 Constraints**, turn on the **Required** toggle to make the parameter mandatory. Click **Next**.
- 4.3. In **Create Fulfillment Parameter — Step 3 Details**, enter the parameter ID, which is `pp_url` or `pp_user`, title, and description. Click **Create**.

ID \*

pp\_url

---

Must be unique for this product. 6 / 64

Title \*

Power Panel url

---

Used as a label for inputs. 15 / 100

Description \*

Power Panel url

---

Used as hint for inputs. 15 / 100

---

CANCEL

BACK

CREATE

5. In **Create Fulfillment Parameter — Step 4 Summary**, review the parameter summary and click **Close**.

After adding all the fulfillment parameters, you will have the following list:

**Fulfillment Parameters** ? **SUBSCRIPTION** TIER 1 TIER 2 + CREATE PARAMETER

Additional pieces of information that are required to complete the fulfillment phase of a purchase order e.g., a license, product activation key, etc). In general, such parameters are specified by vendors.

REFRESH FILTER COLUMNS Rows per page 10 Total: 2 rows

NAME	TYPE	OPTIONS	CONSTRAINTS
<a href="#">Power Panel url</a> pp_url	URL	Hint: Power Panel url	
<a href="#">Power Panel User</a> pp_user	Single line text	Hint: Power Panel user name	

Previous 1 Next Rows per page 10 Total: 2 rows

### 6.2.1.6 Create and define a configuration parameter

Configuration parameters are metadata specified during the product configuration.

Parameter	ID
item_limit	item_limit

#### 6.2.1.6.1 To create a configuration parameter

1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
2. Select the desired product.
3. Go to the **Configuration > Keys** tab and click the **+ Add key** button in the upper-right corner.
4. In the dialog that appears, do the following:
  - 4.1. In **Create Configuration Key - Step 1 Type**, in the **Type** drop-down list, select **Single line text** to enter a value for the parameter in a text line. In **Placeholder text** and **Hint text**, enter additional information about the parameter. Click **Next**.
  - 4.2. In **Create Configuration Key - Step 2 Scope**, select **Item** and click **Next**.
  - 4.3. In **Create Configuration Key - Step 3 Constraints**, turn on the **Required** toggle and click **Next**.
  - 4.4. In **Create Configuration Key - Step 4 Details**, specify the parameter ID, **item\_limit**, title, and description. Click **Create**.

**Create Configuration Key – Step 4**

- Type
- Scope
- Constraints
- 4** Details
- 5 Summary

ID \*  
item\_limit  
Must be unique for this product. 10 / 64


Title \*  
item\_limit  
Used as a label for inputs. 10 / 100

Description \*  
item\_limit  
Used as hint for inputs. 10 / 100

CANCEL
BACK
CREATE

- 4.5. In **Create Configuration Key - Step 5 Summary**, view the details of the created parameter and click **Go to details** to view more detailed information or click **Close**.

#### 6.2.1.6.2 To define a configuration parameter

1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
2. Select the desired product.
3. Go to the **Configuration > Values** tab and click  next to the value you want to change.

Configuration ? KEYS VALUES

REFRESH FILTER COLUMNS SEARCH Rows per page 10 Total: 1 rows

PARAMETER	SCOPE	ITEM	MARKETPLACE	VALUE
<a href="#">item_limit</a> *	Item	<a href="#">Power Panel</a> PRD-713-462-300-00001	-	-

Previous 1 Next Rows per page 10 Total: 1 rows

4. In the **Edit value** dialog, set a new value and click **Save**.

### Edit value

item\_limit \*

item\_limit

---

item\_limit

---

CANCEL SAVE

5. Repeat the steps for each item you need to modify.

### 6.2.1.7 Localization

You can manage the localization of a created product. On the product page, go to the **Localization** tab, where you can add the localization by uploading a file with the translated text.

## CHAPTER 7

# Configuring CloudBlue commerce

To make a product available to an end user, ensure the following steps are completed:

1. The vendor versions a product.
2. The vendor submits a request to include the product in a distributor's product list.
3. The distributor accepts the product.
4. The distributor adds the product to an end user's marketplace.

You must complete the following steps for the PowerPanel user account and virtual environment (virtual machine or container) products.

## 7.1 Version a product

The vendor must version a product before submitting a request to include it in a distributor's product list.

### 7.1.1 To create a product version

1. Go to your CloudBlue Connect vendor portal and click the **Products** icon.
2. Select the product.
3. Go to the **Versions** tab and click the **Fork master** button in the upper-right corner.
4. In **Fork master into the new version**, specify a description and choose **Public** as visibility mode. Click

**Fork.**

**Fork master into the new version**

You are about to create new version of your product based on the master version. Good changelog is very important for the customer experience. Please take a minute to [learn our changelog guidelines](#).

Description \*

☰ ☰

---

lines: 1 words: 0 0/4000

! Note that public versions will immediately be visible to Distributors that have access to this Product as well as publicly in case your product is listed in the CloudBlue Catalog.

**Visibility**  
Please define visibility of this version for Distributors

---

CANCEL FORK

**Preview**

## 7.2 List a versioned product

The vendor must submit a request to include a versioned product in a distributor's product list.

### 7.2.1 To add a versioned product to a distributor's product list

1. Go to your CloudBlue Connect vendor portal and click the **Listings** icon.
2. Click the **Manage listings** button in the upper-right corner.
3. In the dialog that appears, do the following:
  - 3.1. In **Manage Listing—Step - 1 Introduction**, read general information about a product listing and click **Next**.
  - 3.2. In **Manage Listing—Step - 2 Product**, select the desired product and click **Next**.

- 3.3. In **Manage Listing—Step - 3 Distributor**, select a distributor and click **Next**.
- 3.4. In **Manage Listing—Step - 4 Marketplace**, select a marketplace and click **Next**.
- 3.5. **Manage Listing—Step - 5 Action** is skipped by default. This step is available when a product is listed.
- 3.6. In **Manage Listing—Step - 6 Price List**, **No price list** is selected by default. Click **Next**.
- 3.7. In **Manage Listing—Step - 7 Offer**, **No offer** is selected by default. Click **Next**.
- 3.8. In **Manage Listing—Submit**, click **Submit**.

**Manage Listing – Submit**

- ✓ Introduction
- ✓ Product
- ✓ Distributor
- ✓ Marketplace
- ↓ Action
- ✓ Price List
- ✓ Offer
- 8 Submit**
- 9 Summary

**Submit request to Virtuozzo (Provider Evaluation) (PA-627-960)**

You're about to submit your new listing request to Virtuozzo (Provider Evaluation) (PA-627-960) for your VHS7-Test-SP-RESERV-1 (PRD-366-400-575) in the VZ MSK Test Marketplace (MP-43209)

Click Submit to send your request to the Virtuozzo (Provider Evaluation)'s review.

[CLOSE](#) [BACK](#) [SUBMIT](#)

- 3.9. In **Manage Listing—Summary**, view the details and status of the request. Click **Go to details** to view all the details and status of your listing. Otherwise, click **Close**.

Thus, the product will appear on the distributor's side.

## 7.3 Accept a product by a distributor

Before a distributor can publish a product for their end users, they must accept it on their CloudBlue Connect distributor portal.

### 7.3.1 To accept a product

1. Go to your CloudBlue Connect distributor portal and click the **Listings** icon.
2. Go to the **Requests** tab and select a product in the reviewing status.
3. Click the **Mark as deploying** button in the upper-right corner.
4. Click the **Mark as completed** button in the upper-right corner.

The screenshot shows the 'Listing request details' page in the CloudBlue Connect distributor portal. At the top right, there is a button labeled 'MARK AS COMPLETED' with a dropdown arrow, which is highlighted with a red box. Below the header is a table with the following data:

Status	ID	Product	Listing	Price list	Offer
Deploying	LSTR-897-167-275-002 Type: Remove	YHST-Test-SP-RESERV-1 PRD-366-400-675	LST-897-167-275	-	-

Below the table, there are sections for 'General', 'Vendor', 'Marketplace', 'Distribution contract', and 'Created at'.

**General**

**Vendor:** Virtuozzo Inc. VA-891-759

**Marketplace:** RomarSoftTech MP-76961 • COP

**Distribution contract:** Contract CRD-32074-70023-53829

**Created at:** 06/14/2023 3:37 PM

On the right side of the page, there is a 'CONVERSATION' section with the ID 'CO-933-111-106-047-964-858'. The conversation history shows:

- June 14, 2023
- John Smith:** Listing Request LSTR-897-167-275-002 created. State set to draft. 3:37 PM
- State changed to reviewing. 3:37 PM
- James Wright:** State changed to deploying. 3:38 PM

Once accepted, the product is added to the list of applications on the CloudBlue Commerce portal.

## 7.4 Add a product to end user's marketplace

After accepting a product on the CloudBlue Connect distributor portal, the distributor must complete the following steps to make it available to an end user:

1. Create a persistent connection via CloudBlue Connection Extension between the CloudBlue Connect and CloudBlue Commerce portals for synchronizing product information.
2. Create a service plan, which is an offer including prices, terms, etc., applicable to an end user.
3. Set resource rates applicable to the product to view the number and quantity of system resources used by an end user.

4. Publish the product to an end user, i.e., the selected user categories.

## 7.4.1 To create connection

1. Go to your CloudBlue Commerce portal.
2. On the **Operations** menu, select **System > Connect**.
3. Click **Manage** next to the desired product.

The screenshot shows the CloudBlue Connect Extension settings page. The left sidebar has the 'Operations' menu expanded, with 'Connect' highlighted. The main content area displays the extension settings, including account information and a table of products. A red arrow points from the 'Connect' button in the sidebar to the 'Manage' button in the table.

Product Name	Product ID	Vendor Name	Search	Reset Search
VHS7				

Product Name	Created	Last version	Product ID	Vendor Name	Vendor ID	Actions
VHS7-Test-SP-RESERV-1	Apr 26, 2023, 10:24 AM	1	PRD-366-400-575	Virtuozzo Inc.	VA-891-759	Manage
VHS7-Test-Power-Panel-1	Mar 30, 2023, 2:41 PM	1	PRD-713-462-300	Virtuozzo Inc.	VA-891-759	Manage
VHS7-OnApp-Cloud-1	Apr 21, 2023, 3:43 PM	2	PRD-778-437-336	Virtuozzo Inc.	VA-891-759	Manage

4. Click **Create connection**.
5. Click **Install** to start importing the product and creating service templates.

On the **Operations** menu, select **Products > Service Templates** to view automatically created service templates. A service template is a template of an offer made to an end user.

The screenshot shows the CloudBlue Service Templates page. The left sidebar has the 'Operations' menu expanded, with 'Service Templates' highlighted. The main content area displays the 'Service Templates' list, including a table with columns for ID, Service template, Vendor, Active, and Ownership. A red arrow points from the 'Service Templates' button in the sidebar to the 'VHS7' entry in the table.

ID	Service template	Vendor	Active	Ownership	Search	Reset Results
VHS7						

ID	Service template	Vendor	Subscriptions	Autoprovided	Active
257	VHS7-Test-SP-RESERV-1	RomarSoftTech	1	Yes	Yes

Create a service plan based on the service templates as instructed below.

## 7.4.2 To create a service plan

1. Go to your CloudBlue Commerce portal.
2. On the **Billing** menu, select **Products** > **Service Plans**.
3. Click **Add New Service Plan**.

The screenshot shows the CloudBlue Commerce portal interface. On the left is a navigation sidebar with a search bar and a tree view of menu items. The 'Products' menu is expanded, and 'Service Plans' is highlighted with a red arrow. The main content area displays the 'Service Plans' management page. At the top, there are tabs for 'Service Plans', 'Plan Categories', 'Sales Categories', and 'Service Templates'. Below the tabs, there are buttons for 'Add New Service Plan', 'Clone Existing Plan', and 'Delete'. A form for adding a new service plan is visible, with fields for ID, Name (containing 'vhs'), Category, Service Template, Subscriptions, and Available for Sale. Below the form is a search bar and a table listing existing service plans. The table has columns for ID, Name, Category, Service Template, Subscriptions, Available for Sale, One-time Fee Item, and Delegation Status. The table contains 12 rows of data, including various domain plans and training plans.

ID	Name	Category	Service Template	Subscriptions	Available for Sale	One-time Fee Item	Delegation Status
32	.asia	Domains	.asia	0	No	No	Own Plan
33	.tel	Domains	.tel	0	No	No	Own Plan
38	.us	Domains	.us	0	In Online Store and CCP	No	Own Plan
43	Default DNS Plan	Domains	Default DNS	0	No	No	Own Plan
65	.me Presencia Web Dominio	Domains	.me	0	No	No	Own Plan
66	eu.com	Domains	en.com	0	No	No	Own Plan
75	.net dummy	Domains	.net	0	No	No	Own Plan
116	Professional Wholesale	Respaldo en Linea	Respaldo en Linea	0	No	No	Own Plan
117	Reseller Status - Training	Reseller Training Plan Catagory	Reseller Status - Training	0	No	No	Own Plan
118	Office 365	Office 365	APS1.2: Office 365	0	No	No	Own Plan
126	Office 365 Enterprise K1	Office 365	APS1.2: Office 365	0	No	No	Own Plan

4. Choose **Generic Service Plan** as a service plan type and click **Next**.

[Home](#) > [Products](#) > [Service Plans](#) >

# Add New Service Plan

## Service Plan Type

Choose Type

Domain Registration Service Plan

Shared Hosting Service Plan

VPS Hosting Service Plan

SSL Certificate Service Plan

Generic Service Plan

Next

Cancel

5. Complete all the steps specified in the wizard.

Search...

1 Configure Billing Terms 2 Specify Prices and Subscription Periods 3 Update Subscription Periods 4 Configure Resources Rates 5 Add Up-sale Categories

**General**

Name \* My VHS7 Service Plan en

Service Template \* z60 VHS7-Test-SP-RESERV-1

Plan Category \* IaaS

Service Terms \* IAAS\_Terms

Short Summary \* This is VHS7 service plan en

Detailed Description \* This is VHS7 service plan en

Left sidebar menu items: RomarTechService, Operations (Customers, Resellers, Subscriptions, Orders, Provisioning, Tasks), Finance (Documents, Reports), Products (Service Plans, Resources, Marketing, Online Store, Product Inventory), Services (Domains, Certificates, Microsoft Anniversary...), System (Users, Logs, Settings).

## 7.4.3 To set resource rates

**Note:** Resource rates do not apply to the PowerPanel user account product.

1. Go to your CloudBlue Commerce portal.
2. On the **Billing** menu, select **Products** > **Service Plans**.
3. Select the desired service plan.
4. Go to the **Resource Rates** tab and click **Add New Resource Rate**.

5. In the **MPN** drop-down list, select **CPU\_limit**, **CPU\_MHz\_limit**, **RAM\_limit**, **Storage\_limit**, and **floating\_ip\_limit**.

After adding the resource rate, you will have the following list:

ID	Name	Inc. Amount	Max Amount	Setup Fee	Recurring Fee (Monthly)	Overuse Fee (Monthly)	Allow modifications in trial	Available for Sale	Min Amount
12998	CPU	1.00 License/month	5.00 License/month	0 COP	0 COP	0 COP	<input type="radio"/> No	<input checked="" type="checkbox"/> Yes	1.00 License/month
12999	floating ip	1.00 License/month	5.00 License/month	0 COP	0 COP	0 COP	<input type="radio"/> No	<input checked="" type="checkbox"/> Yes	1.00 License/month
13000	RAM	1.00 License/month	5.00 License/month	0 COP	0 COP	0 COP	<input type="radio"/> No	<input checked="" type="checkbox"/> Yes	1.00 License/month
13001	Storage	50.00 License/month	50.00 License/month	0 COP	0 COP	0 COP	<input type="radio"/> No	<input checked="" type="checkbox"/> Yes	0.00 License/month
13002	CPU_MHz	0.00 License/month	0.00 License/month	0 COP	0 COP	0 COP	<input type="radio"/> No	<input checked="" type="checkbox"/> Yes	0.00 License/month

## 7.4.4 To publish a product

1. Go to your CloudBlue Commerce portal.
2. On the **Billing** menu, select **Products** > **Service Plans**.
3. Select the desired service plan.
4. Go to the **Publication Settings** tab and choose the categories to which you want to publish the product.

Search...

Home > Products > Service Plans >

Screen ID: 01.15.30

### #1933 VHS7-VPS-VM

Subscriptions   Resource Rates   Upgrades   Up-sales   Conflicts

General   Synchronization Requests   Subscription Periods   **Publication Settings**

⚠ Plan is included in the sales category that is not added to any screen of the "STG" Online Store

Here you see different settings which have impact on how and where service plan will be visible in Online Store and Customer CP - settings of plan itself and inclusion into sales categories. For every sales category you can also find what Online Store screens and purchase scenarios this category is added into and if this category is shown in Customer CP.

#### Plan Settings

[Edit](#)

Published  Yes

Listing Priority 1

Default Subscription Period None  
The default Subscription Period defines the period, which will be selected by default when you place the service plan into the shopping cart. Select 'None' to use the default algorithm.

Icon [\[Load Icon\]](#) [\[Remove Icon\]](#)

#### Inclusion into Sales Categories

Selected Online Store STG

Sales Category	Online Store Screen (Related Scenarios)	Shown in CCP
VPS hosting	This sales category is not published on any screen in Online Store.	<input checked="" type="checkbox"/> Yes
VPS hosting	<b>Choose Virtual Server</b> (Virtual Private Server).	<input type="checkbox"/> No

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Once published, the product will appear on an end user's marketplace.

## CHAPTER 8

# Managing subscriptions

A subscription is a product the customers have bought or subscribed to. You can request the following:

- Creating, editing, suspending, resuming, and deleting a virtual environment (virtual machine or container).
- Creating, editing, suspending, resuming, and deleting a user.

## 8.1 To create a virtual environment subscription

1. Go to your CloudBlue Connect vendor portal and click the **Subscriptions** icon.
2. Click the **+ Create subscription** button in the upper-right corner.
3. In the dialog that appears, do the following:
  - 3.1. In **Create Subscription - Step 1 Introduction**, read general information about a subscription and click **Next**.
  - 3.2. In **Create Subscription - Step 2 Environment**, select one of the available environments (**Vendor internal test**, **Test**, or **Production**) where you want to create the subscription and click **Next**.
  - 3.3. In **Create Subscription - Step 3 Product**, select the desired product in the list and click **Next**.
  - 3.4. In **Create Subscription - Step 4 Marketplace**, select the marketplace that will be used to create the subscription and click **Next**.
  - 3.5. In **Create Subscription - Step 5 Price List**, **No price list** is selected by default. Click **Next**.

- 3.6. In **Create Subscription - Step 6 Offer**, **No offer** is selected by default. Click **Next**.
- 3.7. **Create Subscription - Step 7 Plan** is skipped by default.
- 3.8. In **Create Subscription - Step 8 Customer Account**, select the customer and click **Next**.
- 3.9. In **Create Subscription - Step 9 Review Customer**, review the customer's details selected in the previous step and click **Next**.
- 3.10. In **Create Subscription - Step 10 Select Items**, click **+ Add items**, select the checkbox next to the items you want to set, specify their quantity, and click **Next**.

---

**Note:** To have a virtual environment created with the desired values for the items (such as CPU, RAM, etc.), select the checkbox next to the reservation model items you want to set when filling in a VE creation subscription, even if you choose the pay-as-you-go model. Otherwise, the system will create a virtual environment with the default item values.

---

**Select Items**

🔄 REFRESH   ⌵ FILTER   🔍 SEARCH

NAME ▾	PERIOD ▾	MPN ▾	UNIT ▾	STATUS ▾	
CPU PRD-207-821-330-000	Reservation 1 month	CPU_limit	Units	● Draft	<input type="checkbox"/>
CPU_MHz PRD-207-821-330-000	Reservation 1 month	CPU_MHz_limit	Units	● Draft	<input type="checkbox"/>
RAM PRD-207-821-330-000	Reservation 1 month	RAM_limit	Units	● Draft	<input type="checkbox"/>
Storage PRD-207-821-330-000	Reservation 1 month	Storage_limit	Units	● Draft	<input type="checkbox"/>
floating ip PRD-207-821-330-000	Reservation 1 month	floating_ip_limit	Units	● Draft	<input type="checkbox"/>
Outgoing Traffic ... PRD-207-821-330-000	Pay as you go	Outgoing_Traffi...	MB*H	● Draft	<input type="checkbox"/>
Incoming Traffic... PRD-207-821-330-000	Pay as you go	Incoming_Traffi...	MB*H	● Draft	<input type="checkbox"/>
Floating IP cons... PRD-207-821-330-000	Pay as you go	Floating_IP_con...	Unit*H	● Draft	<input type="checkbox"/>
CPU consumption PRD-207-821-330-000	Pay as you go	CPU_consumpt...	Unit*H	● Draft	<input type="checkbox"/>

CANCEL   SELECT

---

**Important:** If you do not set any floating IP when filling out a virtual environment creation subscription, the system automatically assigns one floating IP to such a virtual environment. If you request one floating IP, two floating IPs will be assigned to such a virtual environment, i.e., the one you ordered and another IP automatically added by the system.

---

- 3.11. In **Create Subscription - Step 11 Attributes**, view the automatically generated subscription external ID and UUID. Click **Randomize** if you want the system to generate another ID and UUID. Otherwise, click **Clear** and enter your own values.
- 3.12. **Create Subscription - Step 12 T2 Parameters** and **Create Subscription - Step 13 T1 Parameters** are skipped by default.
- 3.13. In **Create Subscription - Step 14 Subscription parameters assignment**, specify the values of the

parameters for the subscription. Click **Create**.

**Note:** If you turn off the **Subscription parameters assignment** toggle, after the request creation, on the subscription page, you must complete the activation form, which requires specifying an operating system, VE hostname, and VE password.

**Create Subscription – Step 14**

- Plan
- ✓ Customer Account
- ✓ Review Customer
- ✓ Select Items
- ✓ Attributes
- T2 Parameters
- T1 Parameters
- 14 Subscription Param...
- 15 Summary

**Subscription parameters assignment**

Please specify values of the ordering phase parameters for the subscription. You can skip assignment of values (if not required) to simulate an unattended ordering experience.

**Values**

OS Template \*  
CentOS 7 Linux

I am the hint text

VE Hostname \*  
I am the placeholder text

I am the hint text

VE Password \*

CANCEL
BACK
CREATE

3.14. In **Create Subscription - Step 15 Summary**, view the details and status of the subscription. Click **Go to details** to view all the details and status of your subscription. Otherwise, click **Close**.

Once the status of your subscription changes from processing to active, on the subscription page, on the **Control Panel** tab, you will see the credentials to your virtual environment.

Additionally, on the subscription page, on the **Reservation** and **Pay as you go** tabs, you can view a report showing the total accepted quantity for the whole period of the subscription. It is updated hourly. To view a more detailed report, refer to [Viewing reports](#) on page 72.

On the subscription page, on the **Parameters**, **Details**, **Tiers**, and **Fulfillment** tabs, you can view all the information and history of the subscription.

## 8.2 To create a user account subscription

---

**Note:** A subscription for creating a user account in PowerPanel enables them to manage their virtual environments on the UI side.

---

1. Go to your CloudBlue Connect vendor portal and click the **Subscriptions** icon.
2. Click the **+ Create subscription** button in the upper-right corner.
3. In the dialog that appears, do the following:
  - 3.1. In **Create Subscription - Step 1 Introduction**, read general information about a subscription and click **Next**.
  - 3.2. In **Create Subscription - Step 2 Environment**, select one of the available environments (**Vendor internal test**, **Test**, or **Production**) where you want to create the subscription and click **Next**.
  - 3.3. In **Create Subscription - Step 3 Product**, select your product in the list and click **Next**.
  - 3.4. In **Create Subscription - Step 4 Marketplace**, select the marketplace that will be used to create the subscription and click **Next**.
  - 3.5. In **Create Subscription - Step 5 Price List**, **No price list** is selected by default. Click **Next**.
  - 3.6. In **Create Subscription - Step 6 Offer**, **No offer** is selected by default. Click **Next**.
  - 3.7. **Create Subscription - Step 7 Plan** is skipped by default.
  - 3.8. In **Create Subscription - Step 8 Customer Account**, select the desired customer and click **Next**.
  - 3.9. In **Create Subscription - Step 9 Review Customer**, review the customer's details selected in the previous step and click **Next**.
  - 3.10. In **Create Subscription - Step 10 Select Items**, leave the default **Power Panel** item selected. Click **Next**.

**Create Subscription – Step 10**

Plan  
 Customer Account  
 Review Customer  
**10 Select Items**  
 11 Attributes  
 T2 Parameters  
 T1 Parameters  
 14 Subscription Parame...  
 15 Summary

Items + ADD ITEMS ↻ RANDOMIZE × CLEAR

ITEMS	QUANTITY	PRICE
Power Panel PRD-734-641-425-0001 MIN: 0 MAX: =	1	Units 1 month

CANCEL BACK NEXT

- 3.11. In **Create Subscription - Step 11 Attributes**, view the automatically generated subscription external ID and UUID. Click **Randomize** if you want the system to generate another ID and UUID. Otherwise, click **Clear** and enter your own values.
- 3.12. **Create Subscription - Step 12 T2 Parameters** and **Create Subscription - Step 13 T1 Parameters** are skipped by default.
- 3.13. In **Create Subscription - Step 14 Subscription parameters assignment**, specify the values of the parameters for the subscription, such as a PowerPanel password. Click **Create**.

---

**Note:** If you turn off the **Subscription parameters assignment** toggle, after the request creation, on the subscription page, you must complete the activation form, which requires specifying a PowerPanel password.

---

**Create Subscription – Step 14**

Plan

Customer Account

Review Customer

Select Items

Attributes

T2 Parameters

T1 Parameters

**14 Subscription Param...**

15 Summary

**Subscription parameters assignment**

Please specify values of the ordering phase parameters for the subscription. You can skip assignment of values (if not required) to simulate an unattended ordering experience.

**Values**

Power Panel Password \*

.....

CANCEL BACK CREATE

- 3.14. In **Create Subscription - Step 15 Summary**, view the details and status of the subscription. Click **Go to details** to view all the details and status of your subscription. Otherwise, click **Close**.

Once the status of your subscription changes from processing to active, on the subscription page, on the **Control Panel** tab, you will see the URL and login to your PowerPanel account.

Additionally, on the subscription page, on the **Reservation, Parameters, Details, Tiers, and Fulfillment** tabs, you can view all the information and history of the subscription.

## 8.3 To change a virtual environment subscription

1. Go to your CloudBlue Connect vendor portal and click the **Subscriptions** icon.

2. Select the subscription you want to edit.
3. On the subscription page, click the **Actions** button and select **Change**.
4. In the dialog that appears, do the following:
  - 4.1. In **Change subscription - Step 1 Overview**, view general information on the subscription to be edited. Click **Next**.
  - 4.2. In **Change subscription - Step 2 Items**, set new quantity values for the desired items, click **+ Add items** to add new items, or click **X** next to the item you want to remove. Click **Next**.

---

**Note:** When updating resources for a virtual machine, it stops automatically and restarts after the resources have been updated.

---

- 4.3. In **Change subscription - Step 3 Parameters**, set new values for the desired parameters. Click **Next**.

**Change subscription — Step 3**

Overview

Items

**3 Parameters**

4 Review

5 Summary

**Ordering Parameters**  
Please specify values of the customer parameters for the subscription.

**Values**

Operation System \*  
CentOS 7 Linux

I am the hint text

VE Hostname \*  
my-super-project

I am the hint text

VE Password \*  
.....

CANCEL BACK NEXT

- 4.4. In **Change subscription - Step 4 Review**, view old and new data of the parameters you requested to change and click **Create change request**.
- 4.5. In **Change subscription - Summary**, view your request status and click **Close**.

## 8.4 To change a user account subscription

---

**Note:** The action of changing a user account subscription is available to vendors only. End users must cancel their previous PowerPanel user account subscription and request a new one. The system assigns the same previously used login, and the user can set a password.

---

1. Go to your CloudBlue Connect vendor portal and click the **Subscriptions** icon.
2. Select the subscription you want to edit.
3. On the subscription page, click the **Actions** button and select **Change**.
4. In the dialog that appears, do the following:
  - 4.1. In **Change subscription - Step 1 Overview**, view general information on the subscription to be edited. Click **Next**.
  - 4.2. In **Change subscription - Step 2 Items**, leave the default item and its value. Click **Next**.
  - 4.3. In **Change subscription - Step 3 Parameters**, set a new PowerPanel password. Click **Next**.
  - 4.4. In **Change subscription - Step 4 Review**, view old and new data of the parameter you requested to change and click **Create change request**.

**Change subscription – Step 4**

Overview  
Items  
Parameters  
**4 Review**  
5 Summary

**Review**

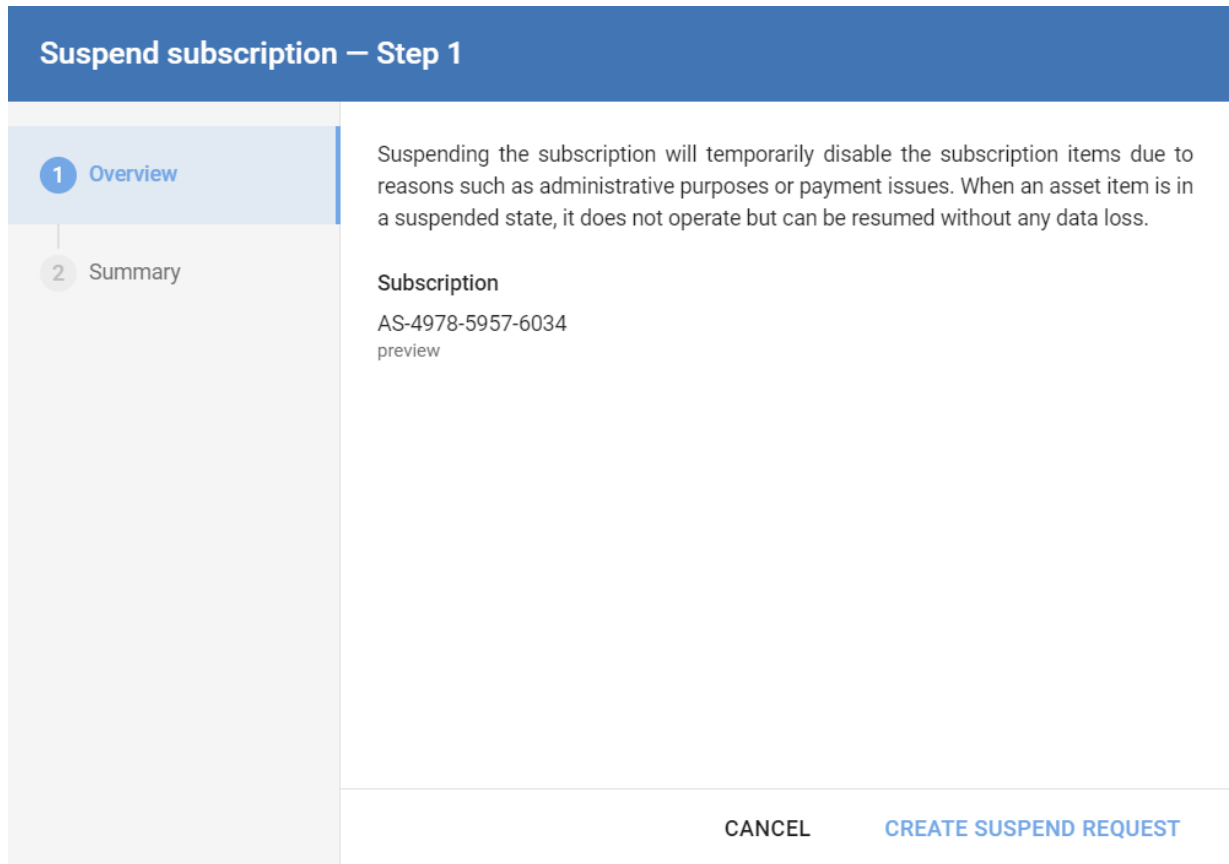
Ordering Parameters	Old data	New data
Power Panel Password pp_password	*****	*****

CANCEL      BACK      CREATE CHANGE REQUEST

4.5. In **Change subscription - Summary**, view your request status and click **Close**.

## 8.5 To suspend a subscription

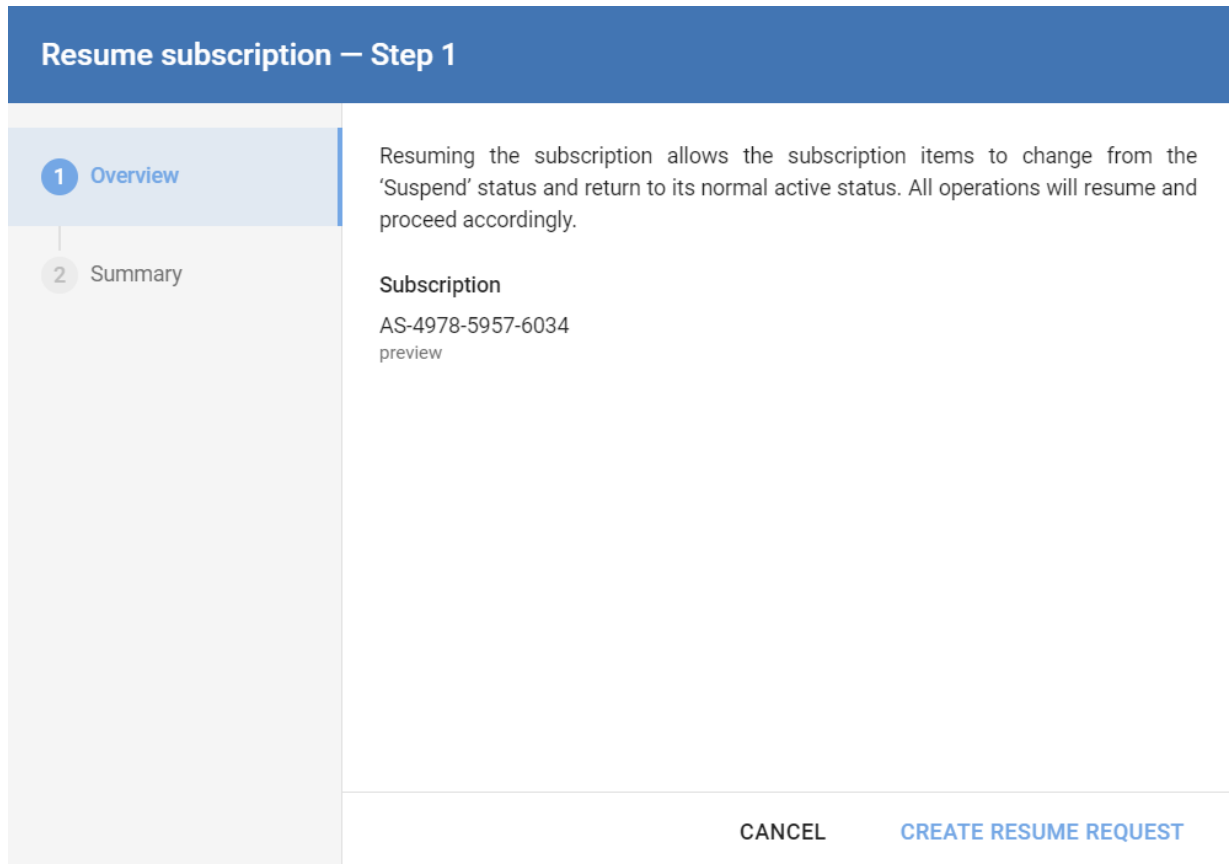
1. Go to your CloudBlue Connect vendor portal and click the **Subscriptions** icon.
2. Select the subscription you want to suspend.
3. On the subscription page, click the **Actions** button and select **Suspend**.
4. In the dialog that appears, do the following:
  - 4.1. In **Suspend subscription - Step 1 Overview**, click **Create suspend request**.



4.2. In **Suspend subscription - Summary**, view your request status and click **Close**.

## 8.6 To resume a subscription

1. Go to your CloudBlue Connect vendor portal and click the **Subscriptions** icon.
2. Select the subscription you want to resume.
3. On the subscription page, click the **Actions** button and select **Resume**.
4. In the dialog that appears, do the following:
  - 4.1. In **Resume subscription - Step 1 Overview**, click **Create resume request**.



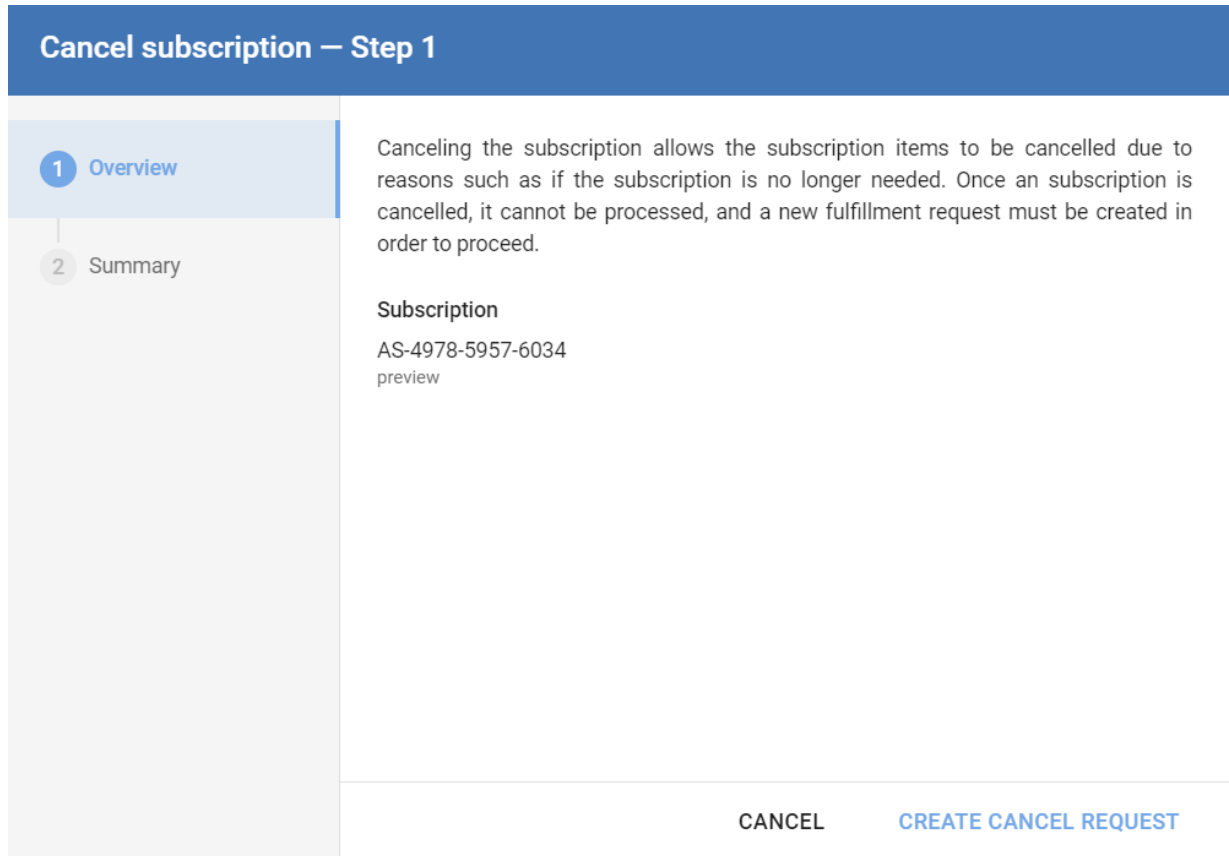
4.2. In **Resume subscription - Summary**, view your request status and click **Close**.

## 8.7 To cancel a subscription

**Note:** After canceling a virtual environment subscription, the virtual environment and its backups exist during the period set in the "dataRetentionPeriod" parameter in the config.json file. The virtual environment is stopped, and the user cannot view and manage it via PowerPanel, except for the administrator. After the expiration of this period, the system removes the virtual environment and its existing backups for such a subscription. They are immediately removed during the cancellation request if "dataRetentionPeriod" is set to zero (0).

1. Go to your CloudBlue Connect vendor portal and click the **Subscriptions** icon.
2. Select the subscription you want to cancel.

3. On the subscription page, click the **Actions** button and select **Cancel**.
4. In the dialog that appears, do the following:
  - 4.1. In **Cancel subscription - Step 1 Overview**, click **Create cancel request**.



- 4.2. In **Cancel subscription - Summary**, view your request status and click **Close**.

## CHAPTER 9

# Viewing reports

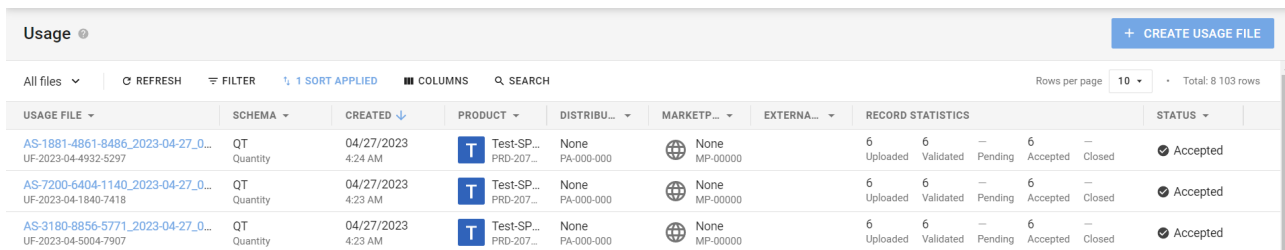
The system provides you with the possibility of viewing and checking usage and consumption reports.

## 9.1 Usage reports

A resource usage report shows the resources used in a particular quantity according to the pay-as-you-go model. It is generated hourly and provided in the .xlsx extension.

### 9.1.1 To view a usage report

1. Go to your CloudBlue Connect vendor portal and click the **Usage** icon.
2. Select the desired report.



USAGE FILE	SCHEMA	CREATED	PRODUCT	DISTRIBU...	MARKETP...	EXTERNA...	RECORD STATISTICS					STATUS
<a href="#">AS-1881-4861-8486_2023-04-27_0... UF-2023-04-4932-5297</a>	QT Quantity	04/27/2023 4:24 AM	Test-SP... PRD-207...	None PA-000-000	None MP-00000		6 Uploaded	6 Validated	— Pending	6 Accepted	— Closed	Accepted
<a href="#">AS-7200-6404-1140_2023-04-27_0... UF-2023-04-1840-7418</a>	QT Quantity	04/27/2023 4:23 AM	Test-SP... PRD-207...	None PA-000-000	None MP-00000		6 Uploaded	6 Validated	— Pending	6 Accepted	— Closed	Accepted
<a href="#">AS-3180-8856-5771_2023-04-27_0... UF-2023-04-5004-7907</a>	QT Quantity	04/27/2023 4:23 AM	Test-SP... PRD-207...	None PA-000-000	None MP-00000		6 Uploaded	6 Validated	— Pending	6 Accepted	— Closed	Accepted

3. On the report details page, click the name of the processed usage file to download it.

← AS-7200-6404-1140\_2023-04-27\_07h ⓘ

---

**GENERAL**
PREVIEW

Distribution Contract	Period (UTC)	Schema	Currency	Records statistics				
<a href="#">None</a> CRD-00000-00000-00000	—	QT Quantity	—	6	6	—	6	—
				Uploaded	Validated	Pending	Accepted	Closed

**Description**  
Report for AS-7200-6404-1140 2023-04-27 07:00:00 ✎

**External ID** Visible only for you  
— ✎

**Files**

Normalized usage file	Processed usage file
<a href="#">UF-2023-04-1840-7418.xlsx</a>	<a href="#">UF-2023-04-1840-7418-PROCESSED.xlsx</a>

4. Open the file and go to the **records** tab. Review the usage statistics.

item_search_value	quantity	start_time_utc	end_time_utc
Outgoing_Traffic_consumption	0.0014	2023-08-25 11:00:00	2023-08-25 12:00:00
Incoming_Traffic_consumption	2.4851	2023-08-25 11:00:00	2023-08-25 12:00:00
Floating_IP_consumption	3	2023-08-25 11:00:00	2023-08-25 12:00:00
CPU_consumption	2	2023-08-25 11:00:00	2023-08-25 12:00:00
Storage_consumption	56	2023-08-25 11:00:00	2023-08-25 12:00:00
RAM_consumption	2	2023-08-25 11:00:00	2023-08-25 12:00:00
Backup_storage_consumption	0.6048	2023-08-25 11:00:00	2023-08-25 12:00:00

## 9.2 Consumption reports

Additionally, you can view a consumption report for a subscription with the pay-as-you-go model on the subscription details page. Such a report shows the total accepted quantity for the whole subscription period. It is updated hourly.

## 9.2.1 To view a consumption report

1. Go to your CloudBlue Connect vendor portal and click the **Subscriptions** icon.
2. Select the desired subscription.
3. Go to the **Pay as you go** tab and review the usage statistics.

CONTROL PANEL	RESERVATION	PAY AS YOU GO	PARAMETERS	DETAILS	TIERS	FULLFILLMENT	BILLING
NAME	MANUFACTURER PART NUMBER	LAST REPORTED	TOTAL ACCEPTED QTY	UNIT			
Outgoing Traffic consumption PRD-366-400-575-00006	Outgoing_Traffic_consumption	08/25/2023 10:00 AM	0.0037	MB*H			
Incoming Traffic consumption PRD-366-400-575-00007	Incoming_Traffic_consumption	08/25/2023 10:00 AM	58.7967	MB*H			
Floating IP consumption PRD-366-400-575-00008	Floating_IP_consumption	08/25/2023 10:00 AM	51	Unit*H			
CPU consumption PRD-366-400-575-00009	CPU_consumption	08/25/2023 10:00 AM	27	Unit*H			
Storage consumption PRD-366-400-575-00010	Storage_consumption	08/25/2023 10:00 AM	1134	Unit*H			
RAM consumption PRD-366-400-575-00011	RAM_consumption	08/25/2023 10:00 AM	27	Unit*H			
Backup Storage consumption PRD-366-400-575-00012	Backup_storage_consumption	08/25/2023 10:00 AM	13.8624	Unit*H			

## CHAPTER 10

# Troubleshooting

In this section, you can find solutions to some issues that may appear while working on your CloudBlue Connect vendor portal, etc.

## 10.1 PowerPanel password issues

If an end user loses their PowerPanel password, they must cancel their previous PowerPanel user account subscription and request a new one. The system assigns the same previously used login, and the user can set a new password.

## 10.2 Subscription issues

If you have problems with a subscription on the vendor portal, you can check the corresponding failed request.

### 10.2.1 To check a failed request

1. Go to your CloudBlue Connect vendor portal and click the **Subscriptions** icon.
2. Go to the **Fulfillment** tab and select the subscription with the **Failed** status.
3. On the subscription details page, check the **Notes** panel for the problem's root cause. For example:

**NOTES** CO-644-533-361-885-562-115 > <

---

June 6, 2023

**John Smith**

Fulfillment Request PR-2743-6182-1394-001 created. State set to Pending.

8:49 AM

**George Murphy**

State changed to Failed

8:49 AM

Reason: {"errors":{"password":["should include special characters"]}}

8:49 AM

{"errors":{"password":["should include special characters"]}}

8:49 AM

## 10.3 Filesystem size issues in virtual machines

You cannot decrease storage space or automatically increase filesystem size after disk expansion via the CloudBlue Connect vendor portal.

When increasing the disk size, the system treats the added disk space as unallocated. You can use standard tools of the guest OS to allocate the added space.

To increase the virtual disk of a virtual machine created based on the template, ensure template images are in the correct partition sequence because guest tools perform resizing only for the last partition.

### 10.3.1 Offline virtual disk resizing

You can resize virtual hard disks of stopped virtual machines with the `prl_disk_tool resize --size` command. For example:

```
# prl_disk_tool resize --hdd /vz/vmprivate/d35d28e5-11f7-4b3f-9065-8fef6178bc5b/ \  
harddisk.hdd --size 100G
```

### 10.3.2 Online virtual disk resizing

**Warning:** Reducing the virtual disk capacity of running virtual machines is prohibited.

To resize virtual hard disks of running virtual machines, use the `prlctl set --device-set --size --no-fs-resize` command. For example, to resize the `hdd0` hard disk of the `MyVM` virtual machine to 100 gigabytes, execute:

```
# prlctl set MyVM --device-set hdd0 --size 100G --no-fs-resize
```

With the `--no-fs-resize` option specified, the last partition on the hard disk is not resized.

## 10.4 Logging and debugging

To log actions you perform when working with the Virtuozzo Hybrid Server CloudBlue connector, copy the `/etc/cloudblue-connector/config-logging.json.example` file into `/etc/cloudblue-connector/config-logging.json`. Additionally, you can review and configure the parameters listed in the file or leave the default values.

```
# cat /etc/cloudblue-connector/config-logging.json  
  
...  
  
"formatter": "single-line",  
"filename": "/var/log/cloudblue-connector/connector_errors.log",  
  
...
```

You can assign the "DEBUG" value to the "level" parameter:

```
"level": "DEBUG"
```

Note that such log files can be large.

A `config.json` file contains the `post_hook_script` parameter with a path to a script. Thus, the script includes a path to a log file. You can change the default location of the log file specified in the `LOGFILE` parameter if needed:

```
#!/bin/bash

# $1 - subscription_id
# $2 - action ['purchase', 'resume', 'change', 'suspend', 'cancel']
# $3 - action result ['success', 'fail']

LOGFILE="/var/log/cloudblue-connector/post_hook.log"
TIMESTAMP=`date "+%Y-%m-%d %H:%M:%S"`

echo "[${TIMESTAMP}]: $1 $2 $3" >> ${LOGFILE}
exit 0
```

Below, you can find an example of a `post_hook.log` file:

```
# cat /var/log/cloudblue-connector/post_hook.log
AS-1087-8055-8780 purchase fail
AS-5474-7711-9006 purchase success
...
AS-2244-5099-6931 suspend success
AS-5474-7711-9006 resume success
...
AS-2244-5099-6931 cancel success
...

Import-Migration Activities:
AS-4112-7978-6284 purchase success
AS-6847-2186-6994 purchase success
AS-5972-4396-5856 purchase fail
```

For more information on a `config.json` file, see [Configure a config.json file](#) on page 8.

## 10.4.1 Location of default log files

Below, you can find details about the location of default log files for the components, such as Virtuozzo Automator, PowerPanel, Virtuozzo Hybrid Server nodes, and Virtuozzo Hybrid Server CloudBlue connector.

Virtuozzo Hybrid Server CloudBlue connector log files are placed inside the VA MN container:

```
/var/log/cloudblue-connector/...
```

Virtuozzo Hybrid Server CloudBlue connector `post_hook.log` files (optional) are located inside the VA MN container:

```
/var/log/cloudblue-connector/post_hook.log
```

You can find Virtuozzo Automator logs inside the VA MN container by running:

```
ls -la /var/log/
```

PowerPanel logs are placed inside a dedicated virtual environment:

```
ls -la /var/log/
```

To find Virtuozzo Hybrid Server 7 node logs, execute the following for the corresponding node:

```
ls -la /var/log/
```