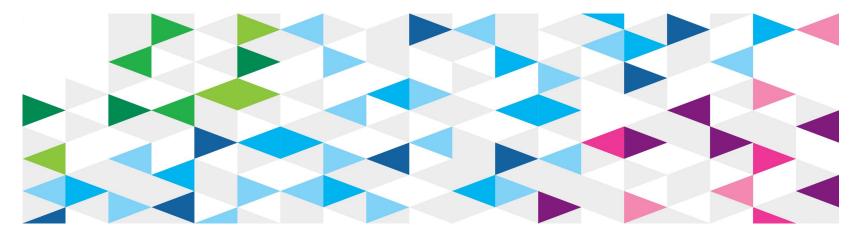
# How do I create Red Hat manifest file and deploy Red Hat Satellite Server 6.11

## IBM Cloud Pak System March 2023

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#### Steps to be followed:

- Step 1 Procure subscriptions
- Step 2 Activate subscriptions
- Step 3 Verify subscriptions in your account
- Step 4a Create Red Hat Satellite Server V6.11 manifest
- Step 4b Create Red Hat Satellite Server V6.11 manifest from existing manifest
- Step 5 Deploy Red Hat Satellite Server V6.11 pattern

### Step 1 – Procure subscriptions

- 1a) Do you have a Red Hat Satellite Server and want to add entitlements to existing Red Hat account?
  - If "Yes" Skip this step and go to 1b directly.
  - If "No" Create an "Enterprise" Red Hat account at https://access.redhat.com/.
- 1b) Call IBM Support, or open a case to request Satellite Server subscription codes
  - Entitlements depend on number of compute nodes in the rack. For detailed requirements, please see next page.

Satellite subscription codes	Entitlement	Explanation
MCT0370	Red Hat Enterprise Server	Satellite subscription
RH00032	Smart Management for unlimited guests	

RHEL subscription codes (one for 1 compute node, min 1)	Entitlement	Explanation
RH0105260	Red Hat Enterprise Server, Premium (8 sockets) (Unlimited guests)	Entitlements for RHEL guests
RH1500861	Smart Management (Unlimited guests) Embedded Partner Support	Smart management for RHEL guests
RH1767396	Extended Update Support for Red Hat Enterprise Linux Server (8 sockets)	L3 support for RHEL guests

#### Step 1 – Procure subscriptions (cont.)

- Product: Red Hat Satellite (MCT0370)
  - Number required: One subscription for one Red Hat Satellite Server.
  - Note: Mandatory to have.
- Product: Red Hat Enterprise Linux Server, Premium (8 sockets) (Unlimited guests) (RH0105260)
  - Number required: The total number of compute nodes in the rack. For example, if the rack has 6 compute
    nodes, meaning it has 6 hypervisors, then user needs to add 6 above subscriptions to the "Satellite
    Organization".
  - Note: Mandatory to have.
- Product: Smart Management for (Unlimited guests) Embedded Partner Support (RH1500861)
  - Number required: Total number of compute nodes in the rack.
- Product: Extended Update Support for Red Hat Enterprise Linux Server (8 sockets) (RH1767396)
  - Number required: Total number of compute nodes in the rack.
  - Note: Not mandatory to have. Only if customer needs extended support.
- Product: Smart Management for unlimited guests (RH00032)
  - Number required: One subscription for one Red Hat Satellite Server.

### Step 1 – Procure subscriptions (cont.)

Using the provided Red Hat subscription codes from IBM L2, each ending with a ".csv" extension, within the ".csv" subscription files, the second parameter (column B) in each file contains the subscription numbers (example only: "c0fb-4eeb-c0ff-4b4e") that you will use as part of the subscription activation process.

The subscription numbers you receive is based on the number of compute nodes on IBM Cloud Pak System within each of the .csv files. If you have one compute node, then enter one subscription. Enter the number of subscription that you have based on the number of compute nodes.

This is an example of a Cloud Pak System with 10 compute nodes. So, 10 subscriptions are available.

RH1767396\_20190421\_0.csv

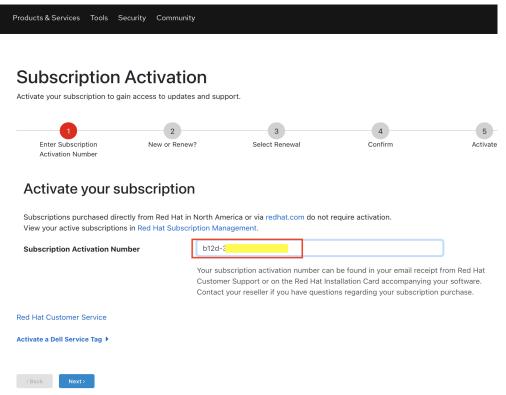
1298		XI453214fc0€
a97a-		XIb46634fa6l
6350-		XI8ef2a21e3e
g3b1-		XI5478egd45
OcOb-		XI53df461280
42d5-		XIkj76e74573
e64d-		XI56fedd33sc
Occf-		XIa43tgrs859
4ef3-		XIb777tge495
54cb-		X259fg1a47fl
	a97a- 6350- g3b1- 0c0b- 42d5- e64d- 0ccf- 4ef3-	6350- g3b1- OcOb- 42d5- e64d- Occf- 4ef3-

#### Step 2 – Activate subscriptions

Red Hat

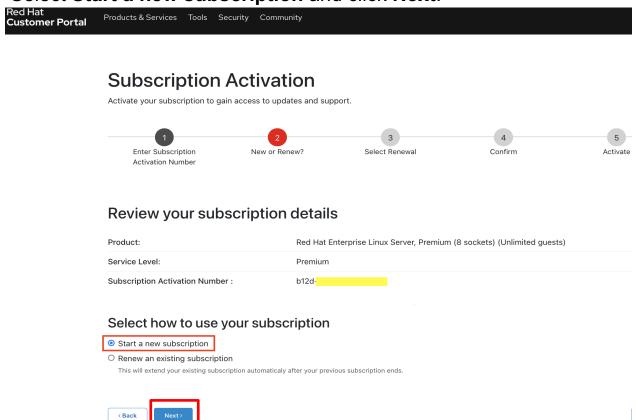
**Customer Portal** 

Activate all subscription codes here:
 https://access.redhat.com/subscriptions/activate/



#### Step 2 – Activate subscriptions (cont.)

Select Start a new subscription and click Next.



## Step 2 – Activate subscriptions (cont.)

Review the subscription details and click Next.

Red Hat Customer Portal	Products & Services Tools Security Comm	unity
	Subscription Activation  Activate your subscription to gain access to updates and support.	
	Enter Subscription Activation Number	New or Renew? Confirm
	Review your subscription details	
	Product:	Red Hat Enterprise Linux Server, Premium (8 sockets) (Unlimited guests)
	Service Level:	Premium
	Start Date:	
	End Date:	
	Subscription Activation Number :	b12d
	< Back Next >	

## Step 2 – Activate subscriptions (cont.)

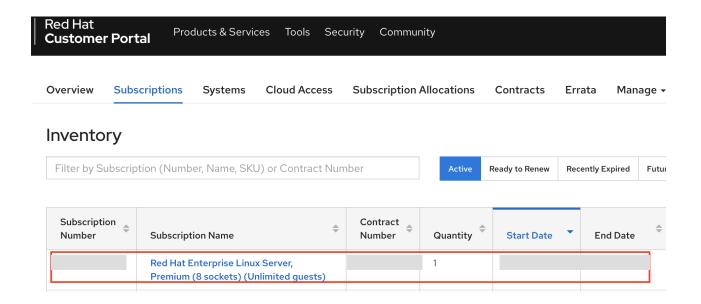
Congratulations! Subscriptions are successfully added.

Note: Activation may take 30 minutes to 48 hours. Please contact support if subscriptions are not activated after 48 hours.

Red Hat Customer Portal	Products & Services Tools Security Commu	nity	
	Subscription Activation  Activate your subscription to gain access to updates and support.		
	Enter Subscription Activation	New or Renew? Confirm	
	Number	New of Nericia.	
	Review your subscription details		
	Product:	Red Hat Enterprise Linux Server, Premium (8 sockets) (Unlimited guests)	
	Service Level:	Premium	
	Start Date:		
	End Date:		
	Subscription Activation Number :	b12d	
	⟨Back Next⟩		

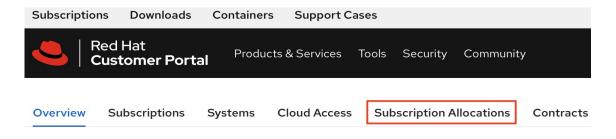
## Step 3 – Verify subscriptions in your account

- Go to https://access.redhat.com/management/ and click Subscriptions.
  - Click **Active** (under **Subscription Utilization**) and confirm that subscriptions are added to your account.

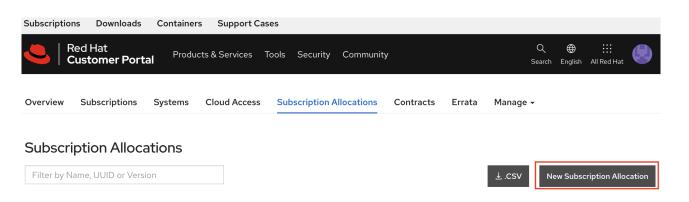


#### Step 4a – Create Red Hat Satellite Server V6.11 manifest

Go to https://access.redhat.com/management/ and select the Subscription Allocations section.

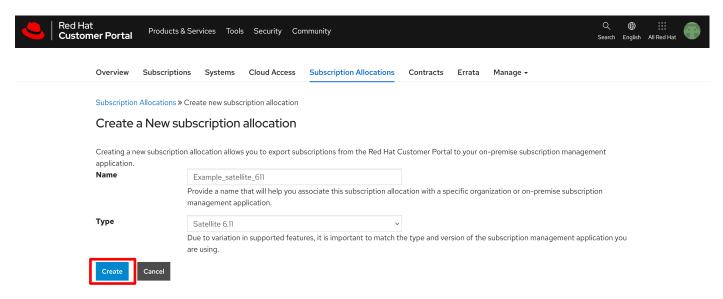


Under Subscription Allocations, click "New Subscription Allocation".



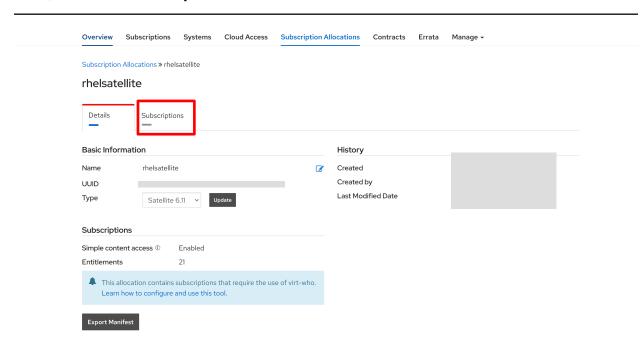
## Step 4a – Create Red Hat Satellite Server V6.11 manifest (cont.)

- On the next screen:
  - Assign a name to the Red Hat Satellite Server subscription allocation.
  - Set Type to Satellite 6.11.
  - Click Create.



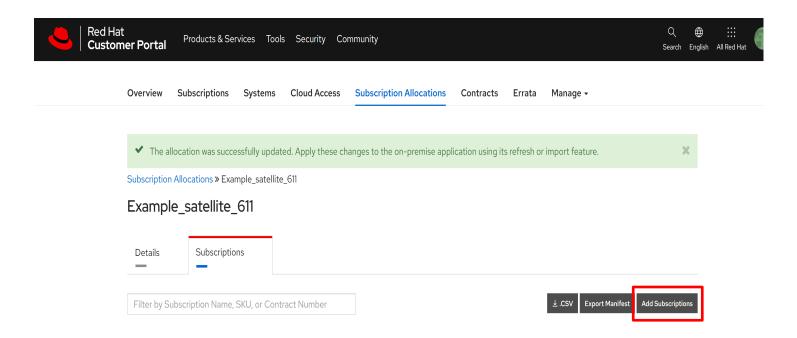
#### Step 4a – Create Red Hat Satellite Server V6.11 manifest (cont.)

- Satellite subscription allocation named "Example\_satellite\_611" is now created.
- Next, click the "Subscriptions" tab.



## Step 4a – Create Red Hat Satellite Server V6.11 manifest (cont.)

Click Add Subscriptions.



#### Step 4a – Create Satellite Server V6.11 manifest (cont.)

- On the next screen\*\*, select **Entitlements**. Use the following table to set the **Quantity** column.
- Add the following subscriptions:

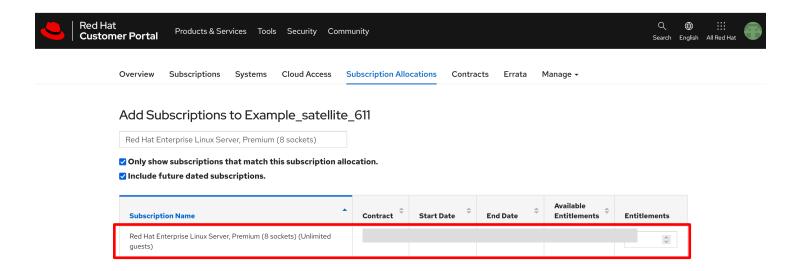
**Important:** DO NOT add "Red Hat Satellite (MCT0370)" subscription itself here. Otherwise, the pattern will not work.

- Product: Red Hat Enterprise Linux Server, Premium (8 sockets) (Unlimited guests) (RH0105260)
  - Number required: The total number of compute nodes in the rack. For example, if the rack has 6 compute nodes, meaning it has 6 hypervisors, then user needs to add 6 above subscriptions to the "Satellite Organization".
  - Note: Mandatory to have.
- Product: Smart Management for (Unlimited guests) Embedded Partner Support (RH1500861)
  - Number required: Total number of compute nodes in the rack.
- Product: Extended Update Support for Red Hat Enterprise Linux Server (8 sockets) (RH1767396)
  - Number required: Total number of compute nodes in the rack.
  - <u>Note</u>: Not mandatory to have. Only if client needs extended support.

<sup>\*\*</sup>Refer screenshot of this step on the next page.

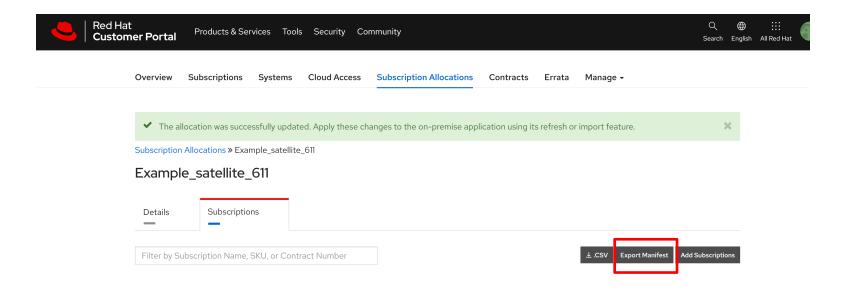
## Step 4a – Create Satellite Server V6.11 manifest (cont.)

This screenshot indicates about adding subscriptions to the Red Hat Satellite organization.



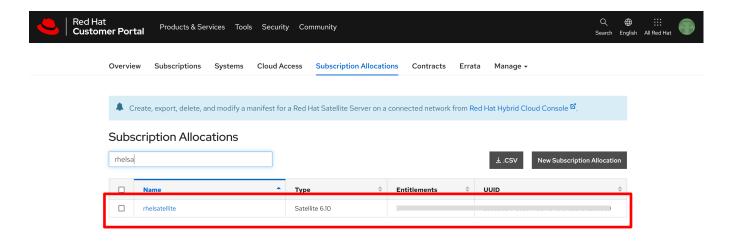
## Step 4a – Create Satellite Server V6.11 manifest (cont.)

 When entitlements are successfully added, click Export Manifest and save it for your records.



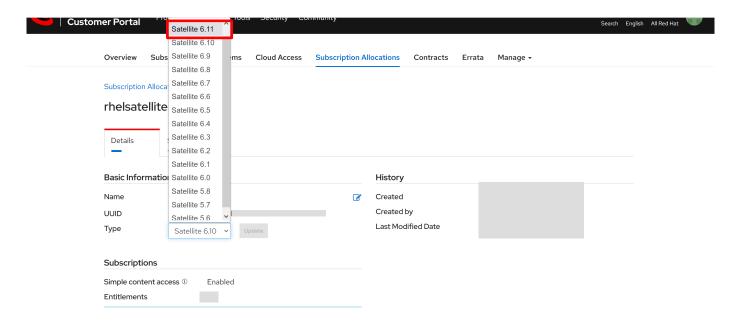
#### Step 4b – Create Satellite Server V6.11 manifest from existing 6.x

- Go to https://access.redhat.com/management/subscription\_allocations.
- Search for the existing Red Hat Satellite Server manifest name and click to select it.



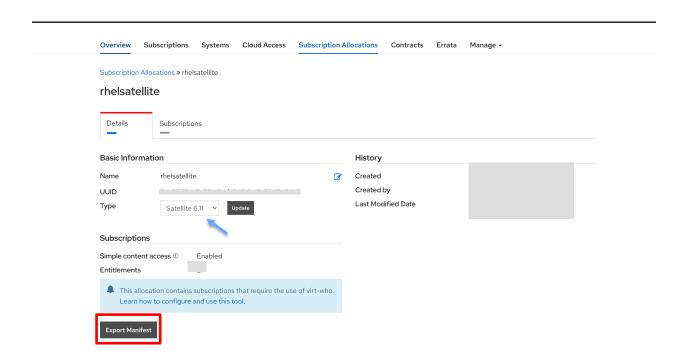
#### Step 4b - Create Red Hat Satellite Server V6.11 manifest from existing 6.x (cont.)

- In the **Details** tab under "Basic Information", you see that **Type** is set to **Satellite 6.10**.
- Expand the **Type** list to select **Satellite 6.11** and click **Update**.



#### Step 4b - Create Satellite Server V6.11 manifest from existing 6.x (cont.)

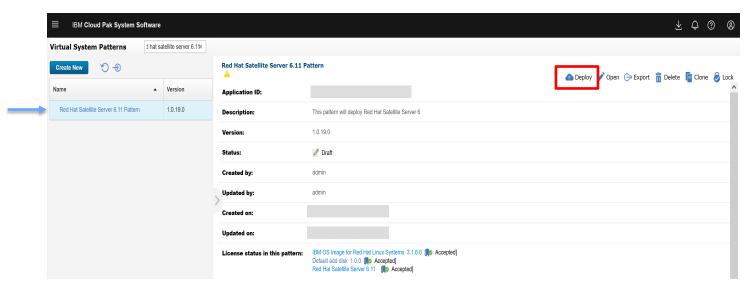
When Type is set to Satellite 6.11 successfully, click Export manifest to download.



#### Step 5 – Deploy Satellite Server V6.11 pattern

Log in to the IBM Cloud Pak System console.

- Click Patterns > Virtual System Patterns.
- Select **Red Hat Satellite Server 6.11 Pattern** (Choose the latest version, e.g.: 1.0.19.0).
- Click Deploy.



#### Step 5 – Deploy Red Hat Satellite Server V6.11 pattern (cont.)

#### Manifest:

Use the one generated in step 4.

#### Red Hat Customer Portal Username and Passwords:

The credentials used to log in your Red Hat Account.

## Organization and Location:

Arbitrary but mandatory fields.

#### Admin username, password & email: Admin details to be set.

#### HTTP proxy details

These proxy details are optional but mandatory when VM can't reach internet

Click **Quick Deploy** and the pattern should complete deploying in 3 hours depending on network speed.

