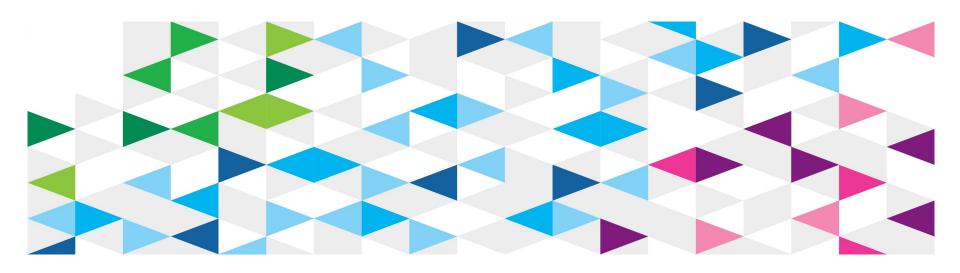


# How do I create Red Hat manifest file and deploy Red Hat Satellite Server 6.10

# IBM Cloud Pak System March 2022

Authors: Prasad Ganiga, Anilkumar Hegde



#### Steps to be followed:

Step 1 – Procure subscriptions

Step 2 – Activate subscriptions

Step 3 – Verify subscriptions in your account

Step 4a - Create new Satellite Server V6.10 manifest

Step 4b – Create Satellite Server V6.10 manifest from existing manifest

Step 5 – Deploy Satellite Server V6.10 pattern

#### Step 1 – Procure subscriptions

- 1a) Do you have a 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 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 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.

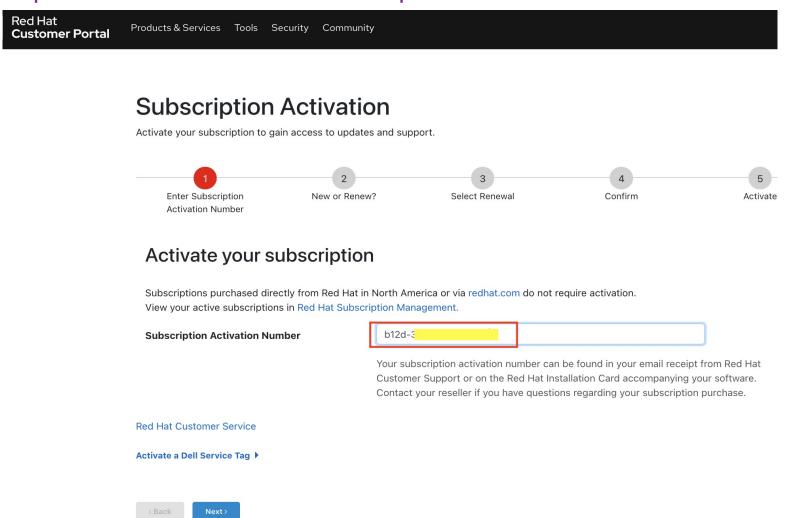
RH1767396\_20190421\_0.csv

RH1767396	1298-	XI453214fc0€
RH1767396	a97a-	XIb46634fa6l
RH1767396	6350-	XI8ef2a21e3e
RH1767396	g3b1-	XI5478egd45
RH1767396	OcOb-	XI53df46128
RH1767396	42d5	XIkj76e74573
RH1767396	e64d-	XI56fedd33sc
RH1767396	Occf-	Xla43tgrs859
RH1767396	4ef3-	XIb777tge495
RH1767396	54cb-	X259fg1a47fl

#### Step 2 – Activate subscriptions

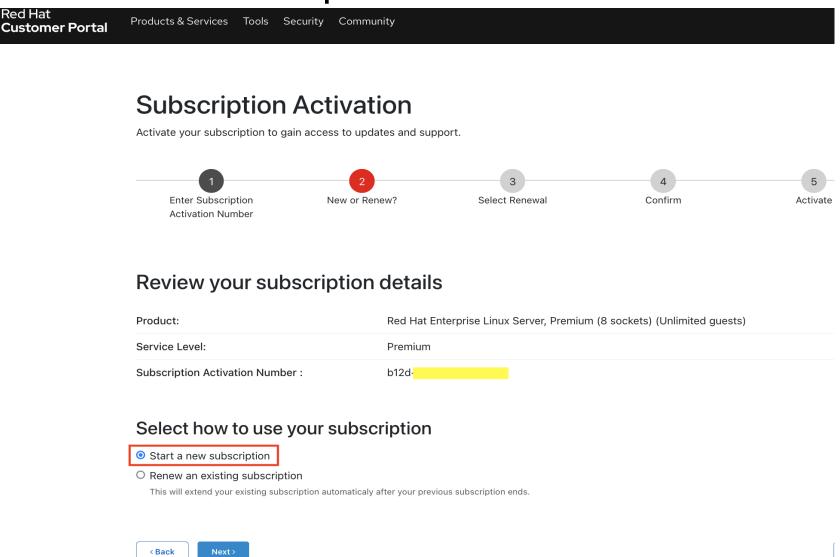
Activate all subscription codes here:

https://access.redhat.com/subscriptions/activate/



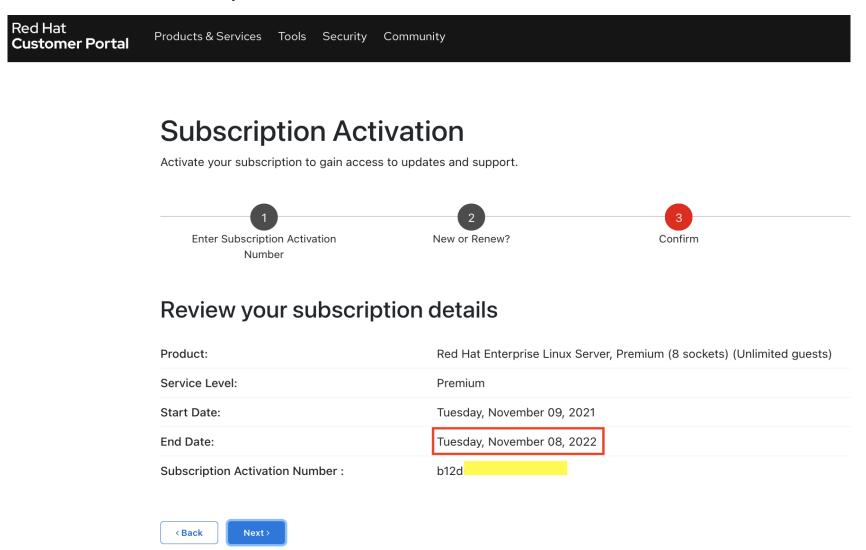
#### Step 2 – Activate subscriptions (cont.)

Select Start a new subscription and click Next.



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

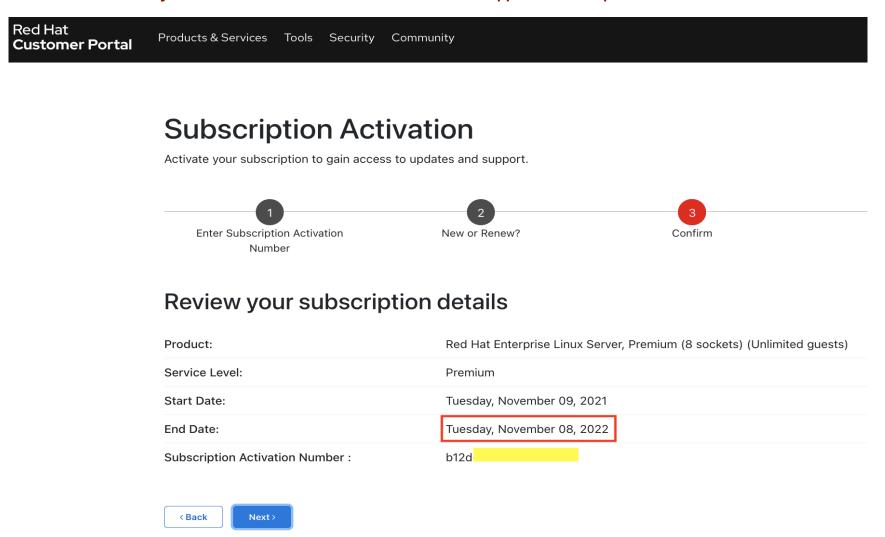
Review the subscription details and click Next.



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

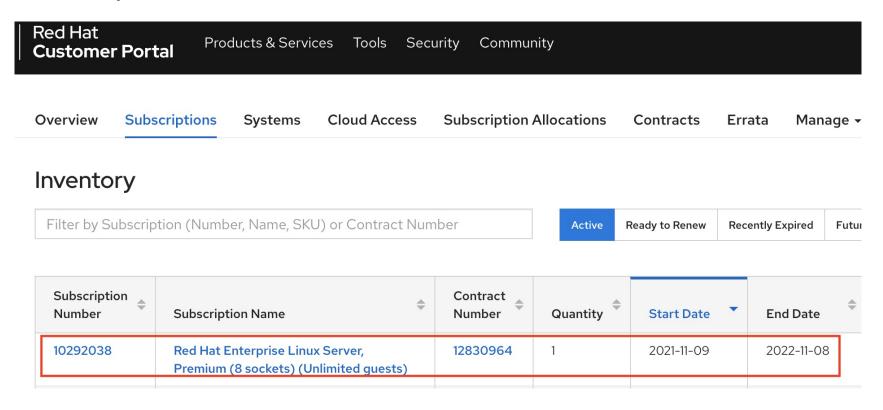
Congratulations! Subscriptions are successfully added.

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



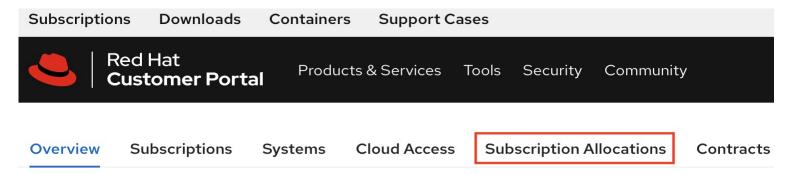
#### Step 3 – Verify subscriptions in your account

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

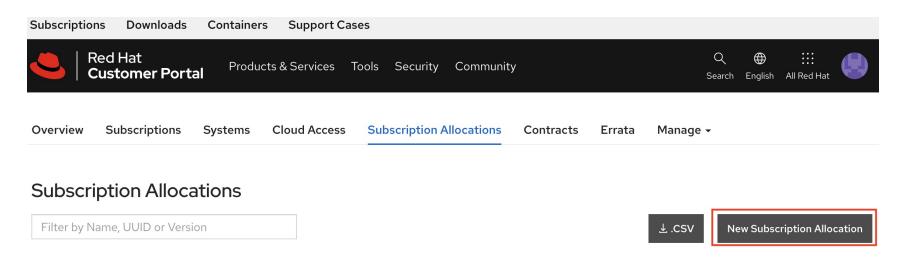


#### Step 4a – Create Satellite Server V6.10 manifest

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

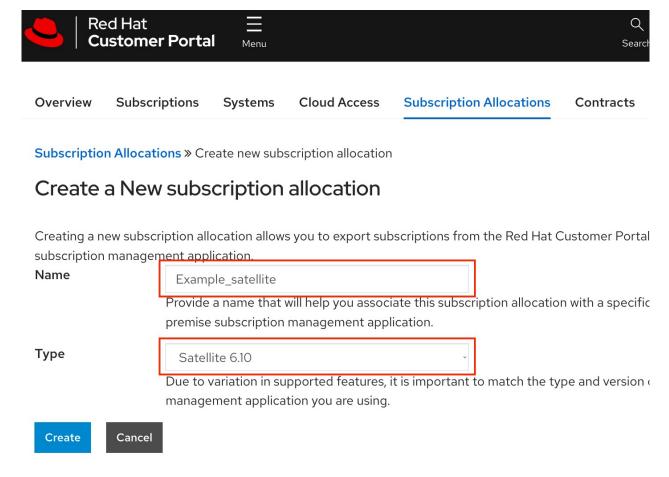


Under Subscription Allocations, click New Subscription Allocation.



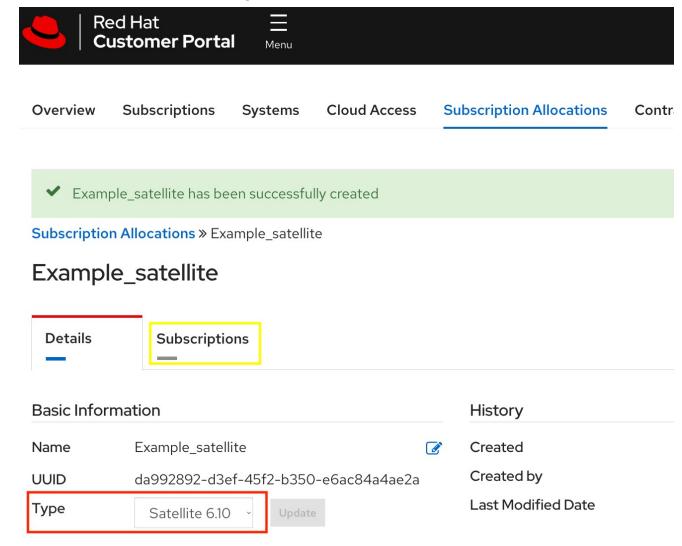
#### Step 4a – Create Satellite Server V6.10 manifest (cont.)

- On the next screen:
  - Assign a name to the Satellite Server subscription allocation.
  - Set Type to Satellite 6.10.
  - Click Create.



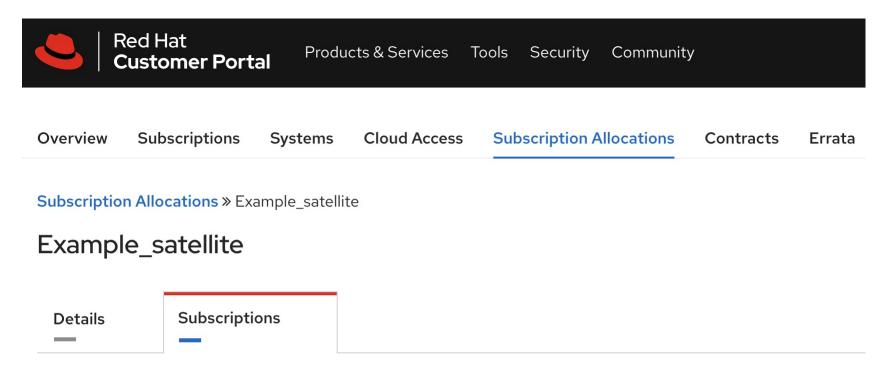
## Step 4a – Create Satellite Server V6.10 manifest (cont.)

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



#### Step 4a - Create Satellite Server V6.10 manifest (cont.)

Click Add Subscriptions.



There are no subscriptions to display

Add subscriptions to this allocation to manage your entitlements

Add Subscriptions

### Step 4a – Create Satellite Server V6.10 manifest (cont.)

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

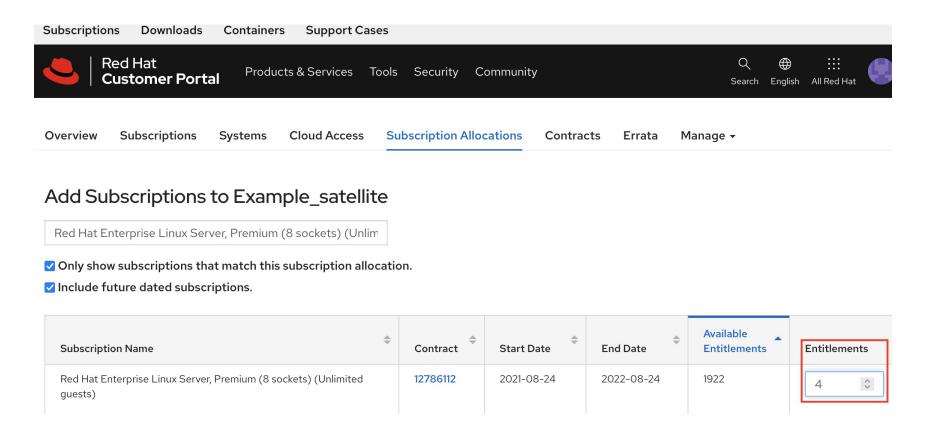
**Important:** DO NOT add "Red Hat Satellite (MCT0370)" subscription itself here. Otherwise, the pattern will not work.

- 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.
  - Note: Not mandatory to have. Only if customer needs extended support.

Screenshot of this step at next page

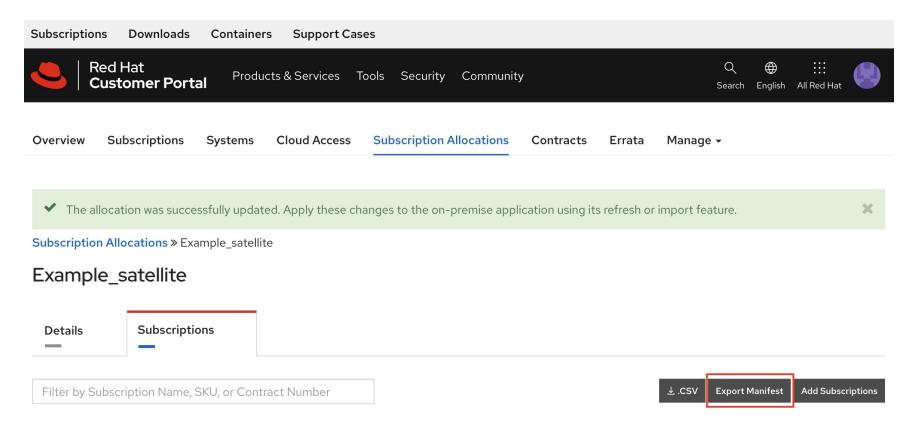
#### Step 4a - Create Satellite Server V6.10 manifest (cont.)

This screenshot indicates about adding subscriptions to the Satellite organization.



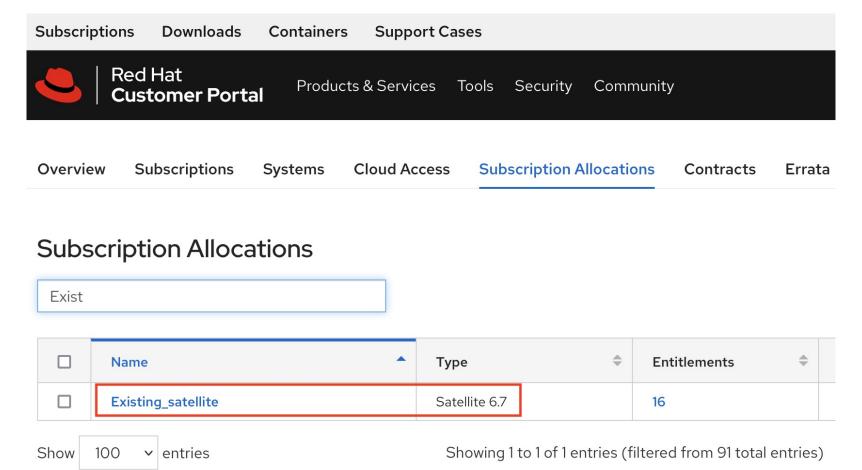
### Step 4a - Create Satellite Server V6.10 manifest (cont.)

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



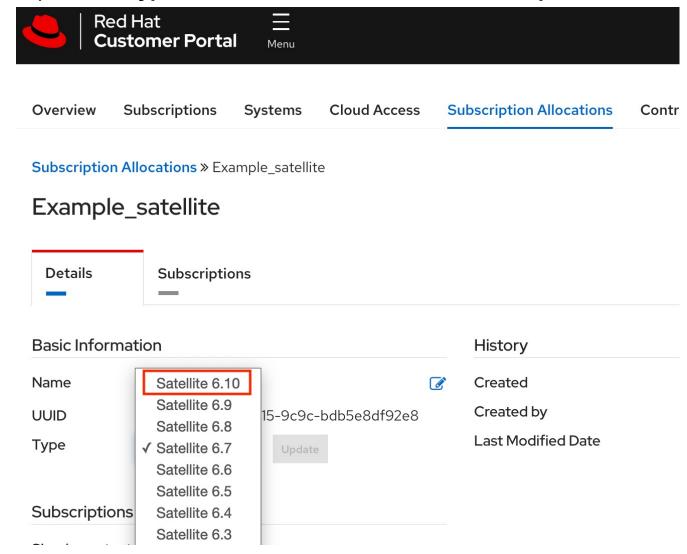
#### Step 4b – Create Satellite Server V6.10 manifest from existing 6.x

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



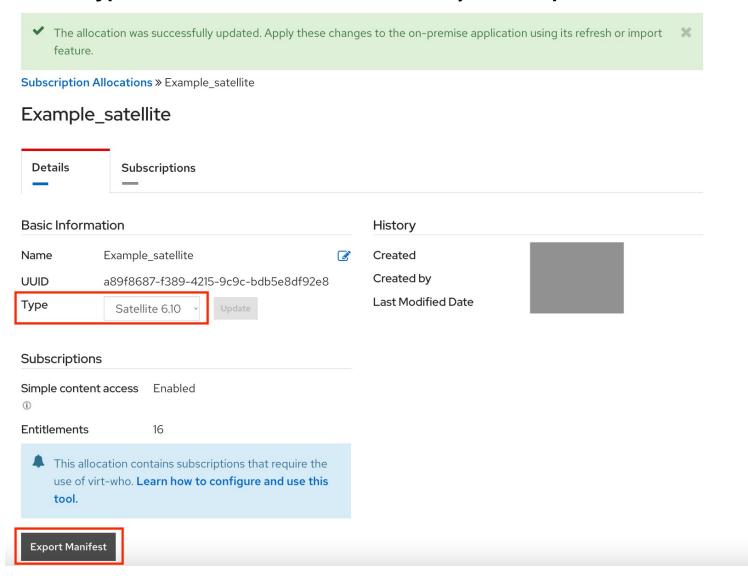
#### Step 4b - Create Satellite Server V6.10 manifest from existing 6.x (cont.)

- In the Details tab under Basic Information, you see that Type is set to Satellite 6.7.
- Expand the Type list to select Satellite 6.10 and click Update.



#### Step 4b - Create Satellite Server V6.10 manifest from existing 6.x (cont.)

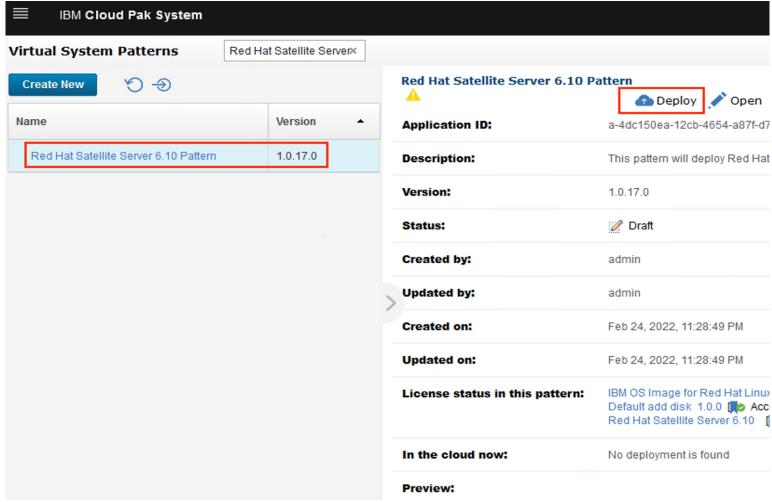
When Type is set to Satellite 6.10 successfully, click Export manifest to download.



#### Step 5 – Deploy Satellite Server V6.10 pattern

Log in to the IBM Cloud Pak System console.

- Click Patterns > Virtual System Patterns.
- Select Red Hat Satellite Server 6.10 Pattern (Choose the latest version, e.g.: 1.0.17.0).
- Click Deploy.



#### Step 5 – Deploy Satellite Server V6.10 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.

