

How do I create NEW RedHat manifest file and deploy RedHat Satellite Server 6.2

IBM PureApplication System 2.0 and higher. January 2019 Edition

Authors: Timothy Elwood, Prasad Ganiga.



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 a "Enterprise" Red Hat account at https://access.redhat.com
- 1b) Call IBM support or open a PMR to request Satellite Server subscription codes
 - Entitlements depend on # of compute nodes in the rack. For detailed requirements please see next page.

Satellite subscription codes	Entitlement	Explanation
MCT0370	Red Hat Satellite server	
RH0134405	Red Hat Enterprise Linux Server (1-2 sockets)	RH server entitlement for running Satellite server
RH00032	Smart Management for unlimited guests	
RH1782743	Extended Update Support (1-2 sockets)	L3 support for Satellite server
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)	Smart management for RHEL guests

Extended Update Support for Red Hat

Enterprise Linux Server (8 sockets)

L3 support for RHEL guests

RH1767396

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 (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: Extended Update Support for Red Hat Enterprise (1-2 sockets) (RH1782743)
 - Number required: One subscription for one satellite server.
 - Note: Mandatory to have
- Product: Red Hat Enterprise Linux server (1-2 sockets) (RH0134405)
 - 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 the PureApplication Systems within each of the .csv files. If you have one Compute Node then enter one subscription. Enter the number of subscription you have based on the number of compute nodes.

This is an example of a PureApplication System with 24 Compute Nodes. So 24 subscriptions are available.

MCT0370_20180327_0.csv								
MCT0370_20180327	_0.csv ;7- ;3- ;4- ;5- ;5- ;5- ;5- ;7. ;7. ;5- ;7. ;7. ;7. ;7. ;7. ;7. ;7. ;7.							
14 MCT0370", "12: 15 "MCT0370", "93: 16 "MCT0370", "03: 17 "MCT0370", "04: 18 "MCT0370", "04: 19 "MCT0370", "04: 20 "MCT0370", "40: 21 "MCT0370", "40: 22 "MCT0370", "13: 23 "MCT0370", "21: 24 "MCT0370", "7at 25	12- , X1260b0909e9 .f- , "XI904b11374f 16- , "XIf1d666655e 16- , "XIe11ef00e7e .e- , "XI0a50fb3616 :0- , "XIc267395ff9 .f- , "XIe5933d31fe :4- , "XI0f6c92caf3 .c- , "XIdb90727116 2b- , "XI974be3b412 .1- , "XIf6cd7c6a5f							

Step 2 – Activate subscriptions

Activate all subscription codes here: http://www.redhat.com/activate



Subscription Activation

Activate your subscription to gain access to updates and support.



Activate your subscription

Subscriptions purchased directly from Red Hat in North America or via redhat.com do not require activation. View your active subscriptions in Red Hat Subscription Management.

Subscription Activation Number

5d1b-b611-5fa6-f3b7

Your subscription activation number can be found in your email receipt from Red Ha Customer Support or on the Red Hat Installation Card accompanying your software. Contact your reseller if you have questions regarding your subscription purchase.

Step 2 – Activate subscriptions (cont.)

Select Start new subscription

Subscription Activation

Activate your subscription to gain access to updates and support.



Review your subscription details

Product:	Red Hat Applications Smart Management				
Service Level:	Layered				
Subscription Activation Number :	5d1b-b611-5fa6-f3b7				

Select how to use your subscription

Start a new subscription

Renew an existing subscription

This will extend your existing subscription automaticaly after your previous subscription ends.



Step 2 – Activate subscriptions (cont.)

• Review the subscription details

Subscription Activation

Activate your subscription to gain access to updates and support.



Review your subscription details

Product:	Red Hat Applications Smart Management				
Service Level:	Layered				
Start Date:	Monday, January 07, 2019				
End Date:	Monday, January 06, 2020				
Subscription Activation Number :	5d1b-b611-5fa6-f3b7				



Step 2 – Activate subscriptions (cont.)

Congratulations! Subscriptions are successfully added

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



Subscription Activation

Activate your subscription to gain access to updates and support.



Subscription Activating

Your subscription is activating and should be ready in a few minutes. You will receive an email confirmation once your subscription is

Subscription details

Product:	Red Hat Applications Smart Management
Service Level:	Layered
Start Date:	Monday, January 07, 2019
End Date:	Monday, January 06, 2020

Step 3 – Verify subscriptions in your account

Go to https://access.redhat.com/management/ click on subscriptions

- Click on **Active** (under **Subscription Utilization**) and confirm subscriptions are added to your account



«Return to Subscription Utilization Inventory

Filter by Subscription (Number, Name, SKU) or Contract Number	Active	Ready to Renew	Recently Expired	Future Dated	A
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Subscription Number	\$ Subscription Name	Contract Number \ddagger	Quantity 🗘	Start Date 🗘	End Date 🔹	Status
5238234	Red Hat Satellite Infrastructure Subscription	Not Available	50	2018-03-19	2020-01-06	Active
5865586	Smart Management (Unlimited guests) Embedded Partner Support	11833351	1	2019-01-07	2020-01-06	Active

Go to https://access.redhat.com/management/
 "Subscription Allocation" section



Subscription Allocations

Allocate subscriptions for export to an on-premise management application such as Red Hat Satellite

Red Hat Satellite

Subscription Asset Manager

- Subscription Allocation
- -> click on "New Subscription Allocation"

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Overview	Subscriptions	Systems	Subscription Allocations	Contracts	Errata	Manage -		

Subscription Allocations



- On the next screen,
 - Assign a name to Satellite server
 - set type to Satellite 6.2
 - click "Create" button

Overview	Subscriptions	Systems	Subscription Allocations	Contracts	Errata	Manage -

Subscription Allocations » Create new subscription allocation

Create a New subscription allocation

Creating a new subscription allocation allows you to export subscriptions from the Red Hat Customer Portal to yo application.

Name



Satellite 6.2

Provide a name that will help you associate this subscription allocation with a specific management application.

Туре

Due to variation in supported features, it is important to match the type and version of are using.



- Satellite is now created
- Next click on "Subscriptions" tab

🏓 red	hat. customer portal	Products & Servic	es To	ools	Security	Community
Overview	Subscriptions Systems	Subscription Allocations	Contracts	Errata	Manage -	
Example Subscription Example Details	ple_satellite has been success n Allocations » Example_satelli e_satellite Subscriptions	fully created te				
Basic Infor	mation		His	story		
Name	Example_satellite		Cre	eated		January 08, 2019
UUID	1	2	Cre	eated by		D. SI D. O.
0010						PureSL_DevOps

Subscriptions

Entitlements

0

• Click on "Add Subscriptions"

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Overview	Subscriptions	Systems	Subscription Allocations	Contracts	Errata	Manage -	

Subscription Allocations » Example_satellite

Example_satellite



There are no subscriptions to display Add subscriptions to this allocation to manage your entitlements



- On the next screen, select entitlements. Use table below to set "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 (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

• Screenshot of adding subscriptions to the satellite organization.

	Display	10	•	available s	ubscriptions 2 sı	ubscriptions in t	this table	are sele	cted	Filter:	
		Contra ≎	act	Number	Available ≎	Type ≎	St ≎	tart Date	2	End Date ≎	Quantity ≎
	Red Hat	t Update	e In	frastructur	e Content Servic	e for Appliance					
		10272	83	5	399997 of 400000	RHUI	0	8/30/20	013	08/30/2018	
	Smart N	lanage	mer	nt (Unlimite	ed guests) Embe	dded Partner Sı	upport				
		10538	814	ļ	Unlimited	System: Physical	0	8/25/20	014	08/25/2019	
	Extende	ed Upda	ate S	Support for	⁻ Red Hat Enterp	rise Linux Serve	er (8 socke	ts) (L3-a	only)		
		10538814		ļ	945 of 1000	System: Physical	0	8/25/20	014	08/25/2019	
	Red Hat	t Enterp	orise	e Linux Ser	ver, Premium (8	sockets) (Unlim	nited guest	s)			
	10538814		Ļ	249 of 1000	System: Physical	0	8/25/20	014	08/25/2019	10	
	Red Hai	l Satelli	to .	DO NO	TADD "RED	HAT SATELL	LITE" TO	SATE	LLITE C	ORGANIZAT	ION
		10538	814		19 of 100	System. Physical	0	8/25/2	214	08/25/2019	
	Red Hat	t Enterp	orise	e Linux Ser	ver, Premium (8	sockets) (Unlim	nited guest	s)			
		11208	945	ō	1 of 1	System: Physical	12	2/08/20	16	12/08/2017	1 💌
	Smart N	lanage	mer	nt for Unlim	nited Guests						
	V	10538	814	ļ	987 of 1000	System: Physical	0	8/25/20	014	08/25/2019	
	Red Hat	t Enterp	orise	e Linux Ser	ver (1-2 sockets)	(Up to 4 guests	s) - Embed	ded Par	tner Sup	port	
		10538	8814	Ļ	907 of 1000	System: Physical	0	8/25/20	014	08/25/2019	
Extended Update Support (1-2 sockets) - Embedded Partner Support											

• Once entitlements successfully added, click "Export manifest" button and save it somewhere.

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Overview	Subscriptions	Systems	Subscription Allocations	Contracts	Errata	Manage +		

The allocation was successfully updated. Apply these changes to the on-premise application using its refresh or import feature.

Subscription Allocations » Example_satellite

Example_satellite

Details	s Subscriptions									
Filter b	Filter by Subscription Name, SKU, or Contract Number						±.csv	Export Ma	inifest	Add Subscrip
Subscription Name			SKU	÷	Contract 🗘	Start Date	End Da	ite ‡	Ent	itlements

Step 5 – Deploy satellite server 6.2 pattern

- Login to Pure Application console.
- Click on Patterns => select Virtual System Patterns
- Select Red Hat Satellite Server 6.2 Pattern (Chose latest version. Eg 1.0.9.0)
- Click on **Deploy**

IBM PureApplication Servi	ice		Patterns	Catalog	Cloud	System	Hardware	A			
Virtual System Patterns	sat	×									
Create New 🕥 🕣			Red Hat Sat	tellite Server 6.2 Pat	tern	Deploy 🖉 Open 🕞 Export 📅 Delete					
Name	•	Version	Description	1 0							
Red Hat Satellite Server 6.2 Patte	ern	1.0.9.0	Version:		1.0.9.0						
			Status:		🧷 Draft						
			Created by:		admin						
			Updated by	1 0	admin						
			Created on:		Nov 15, 201	8, 8:21:48 PM					
			Updated on		Nov 15, 201	8, 8:21:48 PM					
			License sta	tus in this pattern:	IBM OS Imag Default add Red Hat Sat	ge for Red Hat Linux disk 1.0.0 🔀 Acce ellite Server 6.2 👔	Systems 3.0.9.0 [] epted] Accepted]	Accepted]			
			In the cloud	Red Hat Sat now:	No deploym	ent is found					

Step 5 – Deploy satellite server 6.2 pattern (cont.)

Manifest:

Organization and Locatio

Use the one generated in step 4.	IBM PureApplication System	Patterns	Catalog	Cloud	System	Hardware		
	Deploy Pattern: <u>Red Hat Satellite</u>	<u>: Server 6.2 Pattern</u>						
	Configure	Quick Deploy	Prepare to Deploy					
Organization and Location:	*Name Red Hat Satellite Server 6.2 Pattern	No	odes		er 6_2 🔵			
Arbitrary but mandatory fields.	*Environment Profile Development *Priority	Red Hat Satellite	e Server 🔹 🔍	Fill in the required valu	es for component F ganization Name	Red Hat Satellite Se	erver 6_2 for this particular the second sec	tern.
Example values:	SSH key			* Manifest to be uplo Server	aded to Satellite		Browse	
Organization Name: IBM				* Satellite Server adr	nin user name			
Location: Toronto	public SSH key to access Virtual Machine in future Generate			* Satellite Server adr	nin password	Password Verify password		
	Schedule Deployment			* Satellite Server adr	nin email ID			
Pod Hat Customor Portal	H Chargeback			HTTP proxy host				
Username and Passwords:				HTTP proxy port				
The credentials used to log in				HTTP proxy user				
your Red Hat Account.				HTTP proxy user pa	assword	Password		
,						Verify password		
				* Red Hat Customer	Portal Username			
Click "Quick Deploy" and the				* Red Hat Customer	Portal Password	Password		
pattern should complete						verity password		
deploying in 3-4 hours depending on network speed.				Default add disk				