SAMSUNG ELECTRONICS

Knox E-FOTA On-Premises

Guidance for Upgrade to DFM 1.0.1.7 from DFM 1.0.1.6

Version : 1.4 Last Update : Oct 2023

Document History

What	Ver.	When
 I. Added: Guidance for upgrade to DFM 1.0.1.7 ← There are a couple of items that have changed: 1) changed Docker image files, 2) New Feature: Configurable device group polling 	Ver1.4	Oct 2023
 I. Added: Guidance for upgrade to DFM 1.0.1.6 ← There are a couple of items that have changed: 1) changed Docker image files, 2) alter table, 3) New Feature: Configurable Device Group polling 	Ver1.3	Apr 2023
 I. Added: Guidance for upgrade to DFM 1.0.1.5 ← There are a couple of items that have changed: 1) changed Podman image files 	Ver1.2	Jul 2022
 I. Added: Guidance for upgrade to DFM 1.0.1.4 ← There are a couple of items that have changed: 1) changed Podman image files, 2), New Feature: Configurable length of password digits 	Ver1.1	Mar 2022
 I. Added: Guidance for upgrade to DFM 1.0.1.3 ← There are a couple of items that have changed: 1) changed Podman image files 	Ver1.0	Jan 2022

[ADDENDUM] : Upgrade from 1.0.1.6 to 1.0.1.7

1.1. Purpose of this document

The purpose of this document is to provide instructions to <u>upgrade a system with DFM 1.0.1.6 to</u> <u>1.0.1.7</u>. If DFM has never been installed on the server, skip this process and follow the new installation process document.

1.2. Why patch DFM Podman images, etc.?

- Updated bug issues
- New feature: Configurable device polling interval and postpone waiting time

1.3. Why upgrade Podman?

The dfm network setting method has been changed since version 1.0.1.7. An upgrade is required because it is not supported in versions below Podman 4.0.

The setting now uses a bridge network rather than a method of generating with the previous pod. The least supported Podman version is version 4.0, but installing a more recent version (4.6) is recommended.

1.4. What changed in version 1.0.1.7?

	Category	Summary
1	Set-up device polling interval and postpone waiting time	- Using DFM cli
2	Docker image	 dfm-core image dfm-console image

- 1. Changed two Docker image files when compared with the previous DFM 1.0.1.7 version:
 - dfm-core
 - dfm-console

1.5. Update the DFM Module

During the update, a short circuit may occur.

The DFM Module is logged in with **a dedicated service account** and operates with the privileges of the account. You should log in with the account you used to install before.

1.4.1. Install v1.0.1.7 DFM Module Package

The following command shows you how to install the v1.0.1.7 tar compress package:

```
1) delete exist dfm folder

rm -rf /tmp/dfm

2) extract package

tar -zxvf sec-dfm_1.0.1.7.tar.gz -C /tmp

example)

$ tar -zxvf sec-dfm_1.0.1.7.tar.gz

/tmp/dfm/

....

/tmp/dfm/usr/

/tmp/dfm/usr/

/tmp/dfm/usr/bin/

/tmp/dfm/usr/bin/
```

1.4.1. DFM CLI Update

[STEP 1] Copy the DFM CLI.

sudo cp /tmp/dfm/bin/dfm /usr/local/bin or sudo cp /tmp/dfm/bin/dfm /usr/bin

Example) sudo cp /tmp/dfm/bin/dfm /usr/local/bin

(STEP 2) Check the DFM CLI privileges and version.

Is -al /usr/local/bin/dfm or Is -al /usr/bin/dfm -rwxr-xr-x. 1 efotadm efotadm 2902624 Mar 2 07:42 dfm

dfm version version: 1.0.7 Red Hat Enterprise Linux release 8.4 (Ootpa)

1.4.2. Check Podman version

[STEP 1] Check the Podman version.

podman -v

Example) podman -v

podman version 3.2.3

1.4.3. Upgrade Podman

If you are in rootless mode, please upgrade to mandatory.

(STEP 1) Check the DFM service.

#rootless mode podman ps -a			
#root mode sudo podman ps -a			
Example) podman ps -a			
CONTAINER ID IMAGE c8f8232a8cal localhost/minio/minio:RELEASE.2020-06-01T17-28-03Z e80b80bdba55 localhost/haproxytech/haproxy-debian:2.1.4 120be188f49f localhost/dfm-core:1.0.1.4 8a3e2f4452e8 localhost/dfm-console:1.0.1.4 1988a1049bc9 localhost/mysql/enterprise-server:8.0	COMMAND server /data haproxy -f /usr/l mysqld	CREATED 9 hours ago 8 hours ago 8 hours ago 8 hours ago 4 hours ago	STATUS Up 9 hours ago (healthy) Up 8 hours ago (healthy) Up 8 hours ago (healthy) Up 8 hours ago (healthy) Up 4 hours ago (healthy)

(STEP 2) Terminate the DFM service.

#rootless mode
podman rm -af

#root mode
sudo podman rm -af

(STEP 3) Remove the pod if it exists.

#rootless mode
podman pod rm dfm-pod

[STEP 4] Remove the current package.

sudo yum remove -y podman

(STEP 5) Install the new package.

Latest version install sudo yum install -y podman

[STEP 6] Check the Podman version.

podman -v

Example) podman -v

podman version 4.6.1

1.4.4. After upgrading Podman

(STEP 1) Check the network.

#rootless mode podman network ls #root mode sudo podman network ls Example) podman network ls NETWORK ID NAME DRIVER 2f259bab93aa podman

[STEP 2] (Optional) If dfm-network is not created, create the network.

bridge

#rootless mode podman network create
#root mode sudo podman network create
Example) dfm network create The dfm network was created with the name "dfm-network".

[STEP 3] (Optional) Following step 2, check the created network.

#rootless mode
podman network ls
troot mode

#root mode sudo podman network ls

Example) podman network ls

NETWORK ID NAME DRIVER 70a2eb4fe1d2 dfm-network bridge 2f259bab93aa podman bridge

[STEP 4] Start the database service.

#rootless mode dfm start dfm-mysql

#root mode sudo dfm start dfm-mysql

[STEP 5] Check the database service.

# If it is redhat 8.4 version, run health check podman healthcheck run dfm-mysql			
#rootless mode podman ps -a			
#root mode sudo podman ps -a			
Example)			
CONTAINER ID	IMAGE	STATUS	NAMES
9baaf3c0338a	localhost/mysql/enterprise-server:8.0	Up 36 seconds ago (healthy)	dfm-mysql

(STEP 6) Start the minio service.

#rootless mode dfm start dfm-minio	
#root mode sudo dfm start dfm-minio	

(STEP 7) Check the minio service.

# If it is redhat 8.4 version, run health check podman healthcheck run dfm-minio				
#rootless mode podman ps -a				
#root mode sudo podman ps -a				
Example)				
CONTAINER ID	IMAGE	STATUS	NAMES	
9baaf3c0338a	localhost/mysql/enterprise-server:8.0	Up 36 seconds ago (healthy)	dfm-mysql	
77d1f27b3038	localhost/minio/minio:RELEASE.28-03Z	Up 38 seconds ago (healthy)	dfm-minio	

1.4.5. Configure Device Group polling

[STEP 1] Check the DFM CLI version.

dfm version version: 1.0.7 **[STEP 2]** Set the device polling interval (Allowed values: integer type).

Example) dfm config set polling_interval_register =84200

[STEP 3] Set the default waiting time (Allowed values: 1 to 7200).

Example) dfm config set default_waiting_time =30

[STEP 4] Confirm the configurations.

```
dfm config get polling_interval_register
dfm config get default_waiting_time
```

1.4.6. DFM Core Update

The released **Core** image information is as follows:

[STEP01] Stop the running core server.

#root mode
sudo dfm terminate dfm-core
#rootless mode
dfm terminate dfm-core

[STEP02] Load the released podman image.

#root mode
sudo podman load -i /tmp/dfm/images/dfm-core 1.0.1.7.tar

#rootless mode
podman load -i /tmp/dfm/images/dfm-core_1.0.1.7.tar

[STEP03] Change repository and tag's configuration

dfm config set core_img_rep=localhost/dfm-core

dfm config set core_img_tag=1.0.1.7

[STEP04] Confirm the changed repository and tag's configuration

dfm config get core_img_rep dfm config get core_img_tag

[STEP05] Start up Server

- DFM Core Server

#rootless mode
dfm start dfm-core

#root mode
sudo dfm start dfm-core

[Validation]

Make sure the DFM Core Server container is in a healthy state. It may take some time until its state is healthy.

If it is redhat 8.4 version, run health check **podman healthcheck run dfm-core**

#rootless mode
podman ps -a

#root mode sudo podman ps -a

Example)

CONTAINER ID	IMAGE	STATUS	NAMES
9baaf3c0338a	localhost/mysql/enterprise-server:8.0	Up 36 seconds ago	dfm-mysql
		(healthy)	
77d1f27b3038	localhost/minio/minio:RELEASE.28-03Z	Up 38 seconds ago	dfm-minio
		(healthy)	
15dd23fb2355	localhost/dfm-core:1.0.1.7	Up 32 seconds ago	dfm-core
		(healthy)	

1.4.7. DFM Admin Console Update

The released Admin Console image information is as follows:

[STEP01] Stop the running console server.

```
#root mode
sudo dfm terminate dfm-console
#rootless mode
dfm terminate dfm-console
```

[STEP02] Load the released podman image.

#root mode
sudo podman load -i /tmp/dfm/images/dfm-console_1.0.1.7.tar

#rootless mode
podman load -i /tmp/dfm/images/dfm-console_1.0.1.7.tar

[STEP03] Change repository and tag's configuration

dfm config set console_img_rep=localhost/dfm-console

dfm config set console_img_tag=1.0.1.7

[STEP04] Confirm the changed repository and tag's configuration

dfm config get console_img_rep dfm config get console_img_tag

(STEP05) Start up Server

- DFM Core Server			
#rootless mode			
dfm star	dfm-console		
#root mo	de		
sudo dfm	i start dfm-console		
Validatio	n]		
Make sure	the DEM Core Server container is in a k	aalthy state. It may take con	aa tima until ita
iviake suie		lealting state. It may take som	
state is ne	altny.		
# If it is redhat	8.4 version, run health check		
podman health	icheck run dfm-console		
#rootloss mode			
#rootless mode			
pouman ps -a			
#root mode			
sudo podman ps -a			
Example)			
CONTAINER ID	IMAGE	STATUS	NAMES
9baaf3c0338a	localhost/mysql/enterprise-server:8.0	Up 36 seconds ago (healthy)	dfm-mysql
77d1f27b3038	localhost/minio/minio:RELEASE.28-03Z	Up 38 seconds ago (healthy)	dfm-minio
15dd23fb2355	localhost/dfm-core:1.0.1.7	Up 32 seconds ago (healthy)	dfm-core
c49a291fbede	localhost/dfm-console:1.0.1.7	Up 32 seconds ago (healthy)	dfm-console

1.4.8. DFM proxy start

[STEP 1] change haproxy.cfg file

```
#overwrite haproxy.cfg file
cp /tmp/dfm/haproxy-config/haproxy.cfg /dfm/haproxy/config/
```

After copying the file, please proceed with the additional setting by referring to the **4.9. (STEP08) Configure HAProxy** of the installation guide.

[STEP 2] start proxy service

#rootless mode
dfm start dfm-proxy

#root mode
sudo dfm start dfm-proxy

[STEP 3] check proxy service

# If it is redhat 8.4 version, run health check podman healthcheck run dfm-proxy				
#rootless mode podman ps -a				
#root mode sudo podman ps -a				
Example)				
CONTAINER ID	IMAGE	STATUS	NAMES	
9baaf3c0338a	localhost/mysql/enterprise-server:8.0	Up 36 seconds ago (healthy)	dfm-mysql	
77d1f27b3038	localhost/minio/minio:RELEASE.28-03Z	Up 38 seconds ago (healthy)	dfm-minio	
15dd23fb2355	localhost/dfm-core:1.0.1.7	Up 32 seconds ago (healthy)	dfm-core	
c49a291fbede	localhost/dfm-core:1.0.1.7	Up 32 seconds ago (healthy)	dfm-console	
d6a91751a3c3	localhost/haproxytech/haproxy-debian:2.1.4	Up 32 seconds ago (healthy)	dfm-proxy	

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