SAMSUNG ELECTRONICS

KE On-Premise

KE (Knox E-FOTA) One On-Premise

Guidance for Upgrade to DFM 1.0.1.3 from DFM 1.0.1.2

Version : 1.0

Last Update : January 2022

Document History】

What	*Ver.*	*When*
I. Added: Guidance for upgrade to DFM 1.0.1.3 ← There are a couple of items have changed like, 1) changed Podman image files,	**Ver1.0**	**Jan 2022**

[ADDENDUM] : Upgrade from 1.0.1.2 to 1.0.1.3

1.1. Purpose of this document

The purpose of this document is to provide how to **upgrade a system with DFM 1.0.1.2 to 1.0.1.3**.
Therefore, if DFM has never been installed on the server, skip this process and follow the new installation process document.

Items		User privilege		Description
		root	rootless	
Selinux mode	Permissive	CASE Red Hat 1	CASE Red Hat3	
	enforcing	CASE Red Hat 2		

Table 4-1 The Red hat Case

1.2. Why patch DFM podman images and etc

- The vulnerabilities in Log4J library in Apache web server (CVE-2021-44228, CVE-2021-45046)

1.3. What is the changed details in version 1.0.1.3 ?

	Category	Summary
1	Podman image	- dfm-core image - dfm-console image

1. Changed two Podman images are “dfm-core” and “dfm-console”.
- changed two Podman image files when compared with the previous DFM 1.0.1.3 version.
  . dfm-core
  . dfm-console

Podman images	DFM 1.0.1.2	DFM 1.0.1.3 【CASE Red Hat 1】【CASE Red Hat 2】	DFM 1.0.1.3 【CASE Red Hat 3】
dfm-core	repository : localhost/dfm-core tag : 1.0.1.2	repository : localhost/dfm-core **tag : 1.0.1.3**	repository : localhost/dfm-core **tag : 1.0.1.3-rootless**
dfm-console	repository : localhost/dfm-console tag : 1.0.1.2	repository : localhost/dfm-console **tag : 1.0.1.3**	repository : localhost/dfm-console **tag : 1.0.1.3-rootless**
dfm-minio	repository : localhost/minio/minio tag : RELEASE.2020-06-01T17-28-03Z	repository : localhost/minio/minio tag : RELEASE.2020-06-01T17-28-03Z	repository : localhost/minio/minio tag : RELEASE.2020-06-01T17-28-03Z
dfm-mysql	repository : localhost/mysql/enterprise-server tag : 8.0	repository : localhost/mysql/enterprise-server tag : 8.0	repository : localhost/mysql/enterprise-server tag : 8.0

dfm-proxy	repository : localhost/haproxytech/haproxy-debian tag : 2.1.4	repository : localhost/haproxytech/haproxy-debian tag : 2.1.4	repository : localhost/haproxytech/haproxy-debian tag : 2.1.4

1.4. Update the DFM Module

During the update, a short circuit may occur.

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

1.4.1. Install v1.0.1.3 DFM Module Package

Here is a command showing how to install the v1.0.1.3 tar compress package

Items		User privilige	
		root	rootless
Selinux mode	Permissive	CASE Red Hat 1 **sec-dfm_1.0.1.3.tar.gz**	CASE Red Hat3 **sec-dfm_1.0.1.3-rootless.tar.gz**
	enforcing	CASE Red Hat 2 **sec-dfm_1.0.1.3-root-enforcing.tar.gz**	

1) extract package
tar -zxvf sec-dfm_1.0.1.3-{package type}.tar.gz

example)

```
$ tar -zxvf sec-dfm_1.0.1.3-rootless.tar.gz
  sec-dfm_1.0.1.3-rootless/
  sec-dfm_1.0.1.3-rootless/tmp/
  ....
  sec-dfm_1.0.1.3-rootless/usr/
  sec-dfm_1.0.1.3-rootless/usr/bin/
  sec-dfm_1.0.1.3-rootless/usr/bin/dfm
```

1.4.2. DFM Core Update

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

【STEP01】Stop the running core server.

```
dfm terminate dfm-core
```

【STEP02】Load the released docker image.

```
【CASE Red Hat 1】【CASE Red Hat 2】
podman load -i /{path_to_extract}/tmp/dfm/images/dfm-core_1.0.1.3.tar

【CASE Red Hat 3】
podman load -i /{path_to_extract}/tmp/dfm/images/dfm-core_1.0.1.3-rootless.tar
```

【STEP03】Change repository and tag's configuration

```
dfm config set core_img_rep=dfm-core

【CASE Red Hat 1】【CASE Red Hat 2】
dfm config set core_img_tag=1.0.1.3
【CASE Red Hat 3】
dfm config set core_img_tag=1.0.1.3-rootless
```

【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

```
dfm start dfm-core
```

【Validation】
To make sure DFM Core Server container is in healthy state, it takes some time until state is in healthy.

```
podman healthcheck run dfm-core
healthy
```

1.4.3. DFM Admin Console Update

The released **Admin Console** image information is as follows:

【STEP01】Stop the running console server

```
dfm terminate dfm-console
```

【STEP02】Load the released docker image.

```
【CASE Red Hat 1】【CASE Red Hat 2】
podman load -i /{path_to_extract}/tmp/dfm/images/dfm-console_1.0.1.3.tar

【CASE Red Hat 3】
podman load -i /{path_to_extract}/tmp/dfm/images/dfm-console_1.0.1.3-rootless.tar
```

【STEP03】Change repository and tag's configuration

```
dfm config set console_img_rep=dfm-console

【CASE Red Hat 1】【CASE Red Hat 2】
dfm config set console_img_tag=1.0.1.3
【CASE Red Hat 3】
dfm config set console_img_tag=1.0.1.3-rootless
```

【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

- Admin Console Server

```
dfm start dfm-console
```

【Validation】

To make sure mysql container is in healthy state, it takes some time until state is in healthy.

```
podman healthcheck run dfm-console
healthy
```

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