SAMSUNG ELECTRONICS

Knox E-FOTA On-Premises

Guidance for Upgrade to DFM 1.0.1.4 from DFM 1.0.1.3

Version : 1.1

Last Update : March 2022

Document History】

What	*Ver.*	*When*
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 1.0.1.3 to 1.0.1.4

1.1. Purpose of this document

The purpose of this document is to provide instructions to **upgrade a system with DFM 1.0.1.3 to 1.0.1.4**. 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 1-1 **The Red Hat Case**

1.2. Why patch DFM Docker images?

- Updated bug issues
- New feature: Configurable length of password digits

1.3. What is changed in version 1.0.1.4 ?

	Category	Summary
1	Podman image	- dfm-core image - dfm-console image
2	Set-up min max password length	- Using DFM Cli

1. Changed two Docker image files when compared with the previous DFM 1.0.1.3 version:
   - dfm-core
   - dfm-console

Podman images	DFM 1.0.1.3	DFM 1.0.1.4 【CASE Red Hat 1】【CASE Red Hat 2】	DFM 1.0.1.4 【CASE Red Hat 3】
dfm-core	repository : localhost/dfm-core tag : 1.0.1.3	repository : localhost/dfm-core **tag : 1.0.1.4**	repository : localhost/dfm-core **tag : 1.0.1.4-rootless**
dfm-console	repository : localhost/dfm-console tag : 1.0.1.3	repository : localhost/dfm-console **tag : 1.0.1.4**	repository : localhost/dfm-console **tag : 1.0.1.4-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

	tag : 2.1.4		

2. Set-up minimum and maximum length of password digits

1.4. 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 v1.0.1.4 DFM Module Package

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

<table>
<tr><th colspan="2" rowspan="2">Items</th><th colspan="2">User privilige</th></tr>
<tr><th>root</th><th>rootless</th></tr>
<tr><td rowspan="2">Selinux mode</td><td>Permissive</td><td>CASE Red Hat 1
sec-dfm_1.0.1.4.tar.gz</td><td rowspan="2">CASE Red Hat3
sec-dfm_1.0.1.4-rootless.tar.gz</td></tr>
<tr><td>enforcing</td><td>CASE Red Hat 2
sec-dfm_1.0.1.4-root-enforcing.tar.gz</td></tr>
</table>

1) extract package
tar -zxvf sec-dfm_1.0.1.4-{package type}.tar.gz

example)

```
$ tar -zxvf sec-dfm_1.0.1.4-rootless.tar.gz
 sec-dfm_1.0.1.4-rootless/
 sec-dfm_1.0.1.4-rootless/tmp/
 ....
 sec-dfm_1.0.1.4-rootless/usr/
 sec-dfm_1.0.1.4-rootless/usr/bin/
 sec-dfm_1.0.1.4-rootless/usr/bin/dfm
```

1.4.2. DFM CLI Update

【**STEP 1**】Copy DFM CLI.

cp sec-dfm_1.0.1.4-{package type}/usr/bin/dfm /dfm/bin/

Example)
cp sec-dfm_1.0.1.4-rootless/usr/bin/dfm /dfm/bin

【**STEP 2**】Check privileges and version DFM CLI.

ll /dfm/bin/dfm
-rwxr-x**r-x**. 1 efotadm efotadm 2902624 Mar 2 07:42 dfm

dfm version
version: 1.0.4 Red Hat Enterprise Linux release 8.4 (Ootpa)

1.4.3. Configure length of password digits

【STEP 1】Set the minimum length of password (Allowed value of password_min_length: min=8, max=20)

```
Example)
dfm config set password_min_length=8
```

【STEP 2】Set the maximum length of password (Allowed value of password_max_length : min=12, max=30)

```
Example)
dfm config set password_max_length=12
```

【STEP 3】Confirm the min, max password configuration.

```
dfm config get password_min_length
dfm config get password_max_length
```

1.4.4. 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 podman image.

```
【CASE Red Hat 1】【CASE Red Hat 2】
podman load -i /{path_to_extract}/tmp/dfm/images/dfm-core_1.0.1.4.tar

【CASE Red Hat 3】
podman load -i /{path_to_extract}/tmp/dfm/images/dfm-core_1.0.1.4-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=1.0.1.4
【CASE Red Hat 3】
dfm config set core_img_tag=1.0.1.4-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
```

1.4.5. 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_1.0.1.4.tar

【CASE Red Hat 3】
podman load -i /{path_to_extract}/tmp/dfm/images/dfm-console_1.0.1.4-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=1.0.1.4
【CASE Red Hat 3】
dfm config set console_img_tag=1.0.1.4-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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