SAMSUNG ELECTRONICS

Knox E-FOTA On-Premises

Guidance for Upgrade to DFM 1.0.1.6 from DFM 1.0.1.5

Version : 1.5

Last Update : Apr 2023

Document History】

What	Ver.	When
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	**Ver1.5**	**Apr 2023**
I. Added: Guidance for upgrade to DFM 1.0.1.5 ← There are a couple of items that have changed: 1) changed Docker image files	**Ver1.4**	**Jul 2022**
I. Added: Guidance for upgrade to DFM 1.0.1.4 ← There are a couple of items that have changed: 1) changed Docker image files, 2), New Feature: Configurable length of password digits	**Ver1.3**	**Mar 2022**
I. Added: Guidance for upgrade to DFM 1.0.1.3 ← There are a couple of items that have changed: 1) changed Docker image files	**Ver1.2**	**Jan 2022**
I. Added: Guidance for upgrade to DFM 1.0.1.1 ← There are a couple of items that have changed: 1) changed Docker image files, 2), alter table	**Ver1.1**	**Sep 2021**
I. Added: Guidance for upgrade to DFM 1.0.1.1 ← There are a couple of items that have changed: 1) changed Docker image files, 2) changed HAProxy configurations (haproxy.cfg and error files)	**Ver1.0**	**Nov 2020**

[ADDENDUM] : Upgrade from 1.0.1.5 to 1.0.1.6

1.1. Purpose of this document

The purpose of this document is to provide instructions to **upgrade a system with DFM 1.0.1.5 to 1.0.1.6**. If DFM has never been installed on the server, skip this process and follow the new installation process document.

1.2. Why should DFM Docker images be patched?

- Various bug fixes
- New feature: Configurable device group polling

1.3. What is changed in version 1.0.1.6?

	Category	Summary
1	Set-up device group polling	- Using DFM cli
2	Mysql	- Alter config file - Alter table
3	Docker image	- dfm-core image - dfm-console image

1. Changed two Docker image files from the previous DFM 1.0.1.5 version:
   - dfm-core
   - dfm-console

Docker images	DFM 1.0.1.5	DFM 1.0.1.6
dfm-core	repository : dfm-core tag : 1.0.1.5	repository : dfm-core **tag : 1.0.1.6**
dfm-console	repository : dfm-console tag : 1.0.1.5	repository : dfm-console **tag : 1.0.1.6**
dfm-minio	repository : minio/minio tag : RELEASE.2020-06-01T17-28-03Z	repository : minio/minio tag : RELEASE.2020-06-01T17-28-03Z
dfm-mysql	repository : mysql/enterprise-server tag : 8.0	repository : mysql/enterprise-server tag : 8.0
dfm-proxy	repository : haproxytech/haproxy-debian tag : 2.1.4	repository : haproxytech/haproxy-debian tag : 2.1.4

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 v1.0.1.6 DFM Module Package

Here is a command showing how to install the v1.0.1.6 Debian package:

1) check if v1.0.1.6 is installed
dpkg -l | grep sec-dfm

example:
$ dpkg -l | grep sec-dfm
ii sec-dfm 1.0.1.6 all Samsung Enterprise fota dfm package
$

2) install
sudo dpkg -i sec-dfm_1.0.1.6.deb

example:
$ sudo dpkg -i sec-dfm_1.0.1.6.deb
(Reading database ... 265246 files and directories currently installed.)
Preparing to unpack sec-dfm_1.0.1.6.deb ...
Unpacking sec-dfm (1.0.1.6) over (1.0.1.5) ...
Setting up sec-dfm (1.0.1.6) ...
$

$ dpkg -l | grep sec-dfm
ii sec-dfm 1.0.1.6 all Samsung Enterprise fota dfm package
$

1.4.2. Configure Device Group polling

【STEP 1】Check the DFM CLI version.

```
dfm version
version:  1.0.5
```

【STEP 2】Set whether to enable device groups (Allowed values: “true”, “false”).

```
Example)
dfm config set device_group_enable =true
```

【STEP 3】Confirm the “device_group_enable” configuration.

```
dfm config get device_group_enable
```

1.4.3. Alter Mysql config file

1) Edit the “my.cnf” file.

Add "group_concat_max_len=4096" at the bottom of the file.

【STEP 1】Edit the “my.cnf” file

```
vi /dfm/mysql/config/my.cnf

[mysqld]
user=mysql
default-time-zone='+00:00'
event_scheduler = ON
general_log = 0
slow-query-log = 1
long_query_time = 4
lower_case_table_names = 1
collation-server = utf8mb4_unicode_ci
init-connect='SET NAMES utf8mb4'
character-set-server = utf8mb4
group_concat_max_len = 4096
```

【STEP 2】Restart the “dfm-mysql” container

```
dfm restart dfm-mysql
```

【Validation】

Run the following command to ensure the mysql container is in a healthy state. It takes some time until its state is healthy.

```
docker ps -a
```

1.4.4. Alter Table

1) Alter table using an SQL script

1) Executing an SQL script

```
docker exec -i dfm-mysql mysql -uroot -p[password] < /tmp/dfm/mysql-query/patch_1.0.1.6.sql
```

1.4.5. DFM Core Update

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

- Docker image : dfm-core-1.0.1.6.tar
- repository : dfm-core
- tag : 1.0.1.6

【**STEP 1**】Stop the running core server.

```
dfm terminate dfm-core
```

【**STEP 2**】Load the released Docker image.

```
docker load < /tmp/dfm/docker-images/dfm-core-1.0.1.6.tar
```

【**STEP 3**】Change the repository and tag configuration

```
dfm config set core_img_rep=dfm-core
dfm config set core_img_tag=1.0.1.6
```

【**STEP 4**】Confirm the changed repository and tag configuration

```
dfm config get core_img_rep
dfm config get core_img_tag
```

【**STEP 5**】Start up the Server

- DFM Core Server

```
dfm start dfm-core
```

【Validation】
Run the following command to ensure the core container is in a healthy state. It takes some time until its state is healthy.

```
docker ps -a
```

1.4.6. DFM Admin Console Update

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

- docker image : dfm-console-1.0.1.6.tar
- repository : dfm-console
- tag : 1.0.1.6

【**STEP 1**】Stop the running console server

```
dfm terminate dfm-console
```

【**STEP 2**】Load the released Docker image.

```
docker load < /tmp/dfm/docker-images/dfm-console-1.0.1.6.tar
```

【STEP 3】Change repository and tag configuration

```
dfm config set console_img_rep=dfm-console
dfm config set console_img_tag=1.0.1.6
```

```
dfm config get console_img_rep
dfm config get console_img_tag
```

【STEP 4】Confirm the changed repository and tag configuration

【STEP 5】Start up the server

- Admin Console Server

```
dfm start dfm-console
```

【Validation】
Make sure admin console container is in a healthy state. It takes some time until its state is healthy.

```
docker ps -a
```

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