SAMSUNG ELECTRONICS

Knox E-FOTA On-Premises

Guidance for Upgrade to DFM 1.0.1.8 from DFM 1.0.1.7

Version : 1.7

Last Update : Jun 2024

Document History】

What	Ver.	When
I. Added: Guidance for upgrade to DFM 1.0.1.8 ← There are a couple of items that have changed: 1) changed Docker image files, 2) alter table, 3)New Feature: Configurable license app enabled, port, core run command, 4) Background app setting	**Ver1.7**	**June 2024**
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	**Ver1.6**	**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	**Ver1.5**	**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 1.0.1.7 to 1.0.1.8

1.1. Purpose of this document

The purpose of this document is to provide instructions to **upgrade a system with DFM 1.0.1.7 to 1.0.1.8**. 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 license app port and license app enabled, Console makes download url of apk file into qr-code

1.3. What is changed in version 1.0.1.7?

	Category	Summary
1	Set-up license app port and license app enabled, core run command	- Using DFM cli
2	Docker image	- dfm-core image - dfm-console image
3	Mysql	- Alter table

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

Docker images	DFM 1.0.1.7	DFM 1.0.1.8
dfm-core	repository : dfm-core tag : 1.0.1.7	repository : dfm-core **tag : 1.0.1.8**
dfm-console	repository : dfm-console tag : 1.0.1.7	repository : dfm-console **tag : 1.0.1.8**
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 v1.0.1.8 DFM Module Package

Here is a command showing how to install the v1.0.1.8 Debian package:

```
1) check if v1.0.1.8 is installed
dpkg -l | grep sec-dfm


example:
$ dpkg -l | grep sec-dfm
ii   sec-dfm   1.0.1.8     all   Samsung Enterprise fota dfm package
$



2) install
sudo dpkg -i sec-dfm_1.0.1.8.deb

example:
$ sudo dpkg -i sec-dfm_1.0.1.8.deb
(Reading database ... 372179 files and directories currently installed.)
Preparing to unpack sec-dfm_1.0.1.8.deb ...
Unpacking sec-dfm (1.0.1.7) over (1.0.1.8) ...
Setting up sec-dfm (1.0.1.8) ...
$

$ dpkg -l | grep sec-dfm
ii   sec-dfm   1.0.1.8    all   Samsung Enterprise fota dfm package
$
```

1.4.2. Copy Background app files
【STEP 1】 Create Directories

```
Example)
sudo mkdir -p /dfm/background
sudo chwon –R nightwatch:nightwatch /dfm/background
```

【STEP 2】 copy background files, set executable

```
Example)
// copy background files
cp /tmp/dfm/licenseApp /dfm/background/

// Set executable
sudo chmod 744 /dfm/background/licenseApp
```

1.4.3. Start up Background app file

【**STEP 1**】 Command to run the background app

> **Example)**
> **sudo systemctl daemon-reload**
> **sudo systemctl enable efota-license.service**
> **sudo systemctl start efota-license.service**

【**STEP 2**】 Validation

> **Example)**
> **sudo systemctl status efota-license.service**
> Loaded: loaded (/etc/system/system/efota-license.service; enabled; vendor preset: enabled)
> Active: active (running) since Tue 2024-XX-XX 06:39:10 UTC; 7s ago
> Main PID: 2028 (licenseApp)

1.4.4. Configure license app port and license app enabled

【STEP 1】 Check the DFM CLI version.

```
dfm version
version:  1.0.1.8
```

【STEP 2】 Set the license app ip

If you enter an empty value in ip, it is set automatically.

```
Example)
dfm config set license_app_ip=
```

【STEP 3】 Set the license app port (Allowed values: integer type).

```
Example)
dfm config set license_app_port=10030
```

【STEP 4】 Confirm the configurations.

```
dfm config get license_app_ip
dfm config get license_app_port
```

1.4.5. Configure core run command

【STEP 1】 Check the DFM CLI version.

```
dfm version
version:  1.0.1.8
```

【STEP 2】 Set the core run command

```
Example)
dfm config set opt_core_run_cmd="--log-driver json-file --log-opt max-size=5m --log-opt max-file=10 --restart=on-failure --security-opt=no-new-privileges --health-cmd='curl --fail http://127.0.0.1:10080/index.html || exit 1'"
```

【STEP 4】 Confirm the configurations.

```
dfm config get opt_core_run_cmd
```

1.4.6. 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_1.0.1.8.sql
```

1.4.7. DFM Core Update

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

-   Docker image : dfm-core-1.0.1.8.tar
-   repository : dfm-core
-   tag : 1.0.1.8

【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-1.0.1.8.tar
```

【STEP 3】Change the repository and tag configuration

```
dfm config set core_img_rep=dfm-core
dfm config set core_img_tag=1.0.1.8
```

【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
```

1.4.8. DFM Admin Console Update

The released **Admin Console** image information is as follows:
- docker image : dfm-console-1.0.1.8.tar
- repository : dfm-console
- tag : 1.0.1.8

【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-1.0.1.8.tar
```

【STEP 3】Change repository and tag configuration

```
dfm config set console_img_rep=dfm-console
dfm config set console_img_tag=1.0.1.8
```

【STEP 4】Confirm the changed repository and tag configuration

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

【**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**

< **EOF** (End Of File) >