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 <u>upgrade a system with DFM 1.0.1.7 to</u> <u>1.0.1.8</u>. 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 gr-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	DFM 1.0.1.7	DFM 1.0.1.8
images		
dfm-core	repository : dfm-core	repository : dfm-core
	tag: 1.0.1.7	tag: 1.0.1.8
dfm-console	repository : dfm-console	repository : dfm-console
	tag: 1.0.1.7	tag: 1.0.1.8
dfm-minio	repository : minio/minio	repository : minio/minio
	tag: RELEASE.2020-06-01T17-28-03Z	tag: RELEASE.2020-06-01T17-28-03Z
dfm-mysql	repository : mysql/enterprise-server	repository : mysql/enterprise-server
	tag: 8.0	tag:8.0
dfm-proxy	repository: haproxytech/haproxy-debian	repository : haproxytech/haproxy-debian
	tag: 2.1.4	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 -I | 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

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