

# KeyScaler Upgrade Guide

#### UPGRADE FROM 6.8.1 TO 6.8.2

Security Level:	External
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Last Edit Date:	7 July 2022

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# **1 Document Version Control**

Version	Description	Author	Date
1.0	Initial Document Creation	Frode Nilsen	3/01/2019
2.0	Generic upgrade version	Nirmal Misra	02/11/2021
3.0	Upgraded Version	Ashley Johnson	27/01/2022
3.1	Updated for version 6.8.1	James Penney	27/06/2022
3.2	Updated for version 6.8.2	Nirmal Misra	06/07/2022
3.3	Review	Dillesh	07/07/2022

ltem 1

## **2 Reference Document**

#	Reference Document
1	Please refer to latest Release Notes for the upgrade version from DA Support
Itom 2	

ltem 2



# **3 Introduction**

#### **3.1 Document Overview**

This document is a guide to upgrading the Device Authority KeyScaler Platform Server Software from the v6.8.1 version to the later version as suggested by Device Authority support.

The process involves the following key steps:

- Checking the current KeyScaler system
- Stopping the services running
- Backup Database
- Backup KeyScaler Creating a backup of the (\*.war) files
- Removing the old folders
- Downloading and deploying the new (\*.war) files
- Upgrading and Migrating the Database
- Restart KeyScaler System Restarting the services on the system
- Verifying the changes



# **4** Prerequisites

#### 4.1 Download Software

KeyScaler software can be obtained from DA Support from the customer Zendesk Portal.

Note: Please contact DA Support support@deviceauthority.com for access to Zendesk Portal.

For the step to backup the MySQL Database, the root password will be needed.

## 4.2 Upload software to KeyScaler Server

Upload the files to the /tmp directory of your KeyScaler server, e.g.

scp -i <pem file> <download path>/\*.war centos@<keyscaler>:/tmp

```
Item 3 – Your computer: Upload files using scp/winscp utility
```

drwxr-x 17 dfactor_user tomcat	4096 Apr	4 06:57 wizard
-rw-rr 1 dfactor_user tomcat	69559887 Apr	4 09:19 kms.war
drwxr-x 4 dfactor_user tomcat	37 Apr	4 09:19 kms
-rw-rr 1 dfactor_user tomcat		
drwxr-x 5 dfactor_user tomcat		
-rw-rr 1 dfactor_user tomcat		
drwxr-x 5 dfactor_user tomcat		
-rw-rr 1 dfactor_user tomcat		
drwxr-x 13 dfactor_user tomcat		
-rw-rr 1 dfactor_user tomcat		
drwxr-x 4 dfactor_user tomcat		
		4 16:39 service-access-controller.war
drwxr-x 5 dfactor_user tomcat	48 Apr	4 16:39 service-access-controller

Item 4 – Files Uploaded to folder on KeyScaler System

## 4.3 Stop the KeyScaler Service

Log into the KeyScaler system, change to root user and stop the *dfactor* service:

```
Item 6 – dfactor service terminated
```

## 4.4 Backup Existing System

Before you begin the KeyScaler upgrade, first follow the backup and update procedure outlined below:

#### 4.4.1 Backup Database:

As Linux user *dfactor\_user*, run the following commands to backup current KeyScaler database.



Create the backup directory if needed and back up the database. The default database name is *dfactordb*. If your installation has changed the database name, substitute the correct name in the command below. **Note:** You will need the root database password in this process.

```
[root@host ~]# <mark>su - dfactor_user</mark>
[dfactor_user@host ~]
```

[dfactor\_user@host ~]\$ <mark>mkdir -p /var/dfactor/backups/</mark> [dfactor\_user@host ~]\$ <mark>mysqldump -u root -p dfactordb > /var/dfactor/backups/<date>.dfactordb.sql</mark>

Item 7 – Back up KeyScaler Database

```
[root@Keyscaler6741 webapps]# su - dfactor_user
Last login: Thu Jan 27 09:01:33 UTC 2022 on pts/0
[dfactor_user@Keyscaler6741 ~]$ mkdir -p /var/dfactor/backups
[dfactor_user@Keyscaler6741 ~]$ mysqldump -u root -p dfactordb > /var/dfactor/ba
ckups/720122.dfactordb.sql
Enter password:
[dfactor_user@Keyscaler6741 ~]$ cd /var/dfactor/backups/
[dfactor_user@Keyscaler6741 backups]$ ls -al
total 640
drwxr-xr--. 2 dfactor_user tomcat 34 Jan 27 09:04 .
drwxr-xr-x. 8 dfactor_user tomcat 79 Jan 25 10:06 ..
-rw-r--r-- 1 dfactor_user tomcat 655244 Jan 27 09:04 720122.dfactordb.sql
[dfactor_user@Keyscaler6741 backups]$
```

```
Item 8 – Database backup
```

#### 4.4.2 HA Backup of Databases

Log onto each HA KeyScaler device you have, take a backup of each MySQL database as mentioned in 4.4.1.

**Note:** If using Azure SQL log into your database using one of the KeyScaler servers and do the following:

[root@keyscaler-vm2 cert]# <mark>mysqldump -h [your mysql hostname].mysql.database.azure.com -u root@[your mysql hostname] -p</mark> dfactordb > /var/dfactor/backups/<date>/dfactordb.sql Enter password: [Root Password]

Item 9 – Backup Database

#### 4.4.3 Backup KeyScaler

#### 4.4.3.1 Backup the KeyScaler /var/dfactor/data folder that contains:

- NSS keystore
- Tenant packages and licenses
- Samples package

```
[dfactor_user@host ~]$ <mark>mkdir -p /var/dfactor/backups/dfactor/data</mark>
[dfactor_user@host ~]$ <mark>cp -R /var/dfactor/data /var/dfactor/backups/dfactor/data</mark>
Item 10 – Backup Data
```

#### 4.4.4 Backup KeyScaler Binaries and Properties

Log onto each individual KeyScaler instance and take a backup of the .war files in /var/www/tomcat/webapps directory and all of the \*.properties files in /var/dfactor/conf



```
[root@aptiv-remote-factory conf]# ls -al
total 32
drwxr-xr-x. 2 dfactor_user tomcat 216 Jan 27 14:34 .
drwxr-xr-x. 7 dfactor_user tomcat 173 Oct 7 2021 ..
rw-r--r--. 1 dfactor_user tomcat 667 Jul 21 2020 cp.properties

-rw-r--r--. 1 dfactor_user tomcat 609 Jul 21 2020 dae.properties

-rw-r--r-. 1 dfactor_user tomcat 647 Jan 27 17:23 epic-key-vault-client.properties
    -r--r--. 1 dfactor_user tomcat 634 May 20 11:26 kms.properties
        -r--. 1 dfactor_user tomcat 476 May 16 12:45 kmssa.properties
-r--. 1 dfactor_user tomcat 124 Jul 21 2020 kssa.properties
-rw-r--r--. 1 dfactor_user tomcat 538 Jul 21 2020 sac.properties
-rw-r--r-. 1 dfactor_user tomcat 423 Nov 2 2020 securerepo-syslog.properties
[root@aptiv-remote-factory conf]# mkdir backup
[root@aptiv-remote-factory conf]# cp * backup/
cp: omitting directory 'backup'
[root@aptiv-remote-factory conf]# ls -al backup/
drwxr-xr-x. 2 root
drwxr-xr-x. 3 dfactor_user tomcat 230 Jul 6 20:16
                            root
                                               667 Jul 6 20:16 cp.properties
609 Jul 6 20:16 dae.properties
                                               667 Jul
    -r--r-. 1 root
rw
                                               647 Jul 6 20:16 epic-key-vault-client.properties
634 Jul 6 20:16 kms.properties
rw-r--r-. 1 root
                                     root
     r--r-. 1 root
               1 root
                                               476 Jul 6 20:16 kmssa.properties
 rw-r--r-.
rw-r--r-. 1 root
                                               124 Jul
                                                           6 20:16 kssa.properties
                                               538 Jul 6 20:16 sac.properties
rw-r--r-. 1 root
                                                423 Jul
                                                           6 20:16 securerepo-syslog.properties
[root@aptiv-remote-factory conf]#
```

Item 11 – Backup properties files

#### 4.4.4.1 Rename the KeyScaler dfactor tools (if they were deployed previously)

[dfactor\_user@host ~]\$ mv /var/dfactor/dfactor.tools /var/dfactor/backups/dfactor.tools.datestamp Item 12- Backup KeyScaler tools

#### 4.4.4.2 Back up the application war files:

Backup previous war files to be replaced. The existing \*.war files can be found in the following directory:

[root@host ~]#	cd /var/www/tomcat/webapps
Item 13 – *.wa	r file directory

[root@Keysca	ale	r6741 webapps	]# ls -a	al				
total 459900	)							
drwxr-xr-x.	10	dfactor_user	tomcat	4096	Jan	26	18:40	
		root						
		dfactor_user						
		root						
								keyscaler-services
								keyscaler-services.war
		dfactor_user						
		dfactor_user						
								kms-uservice.war
		dfactor_user						
		dfactor_user						
		dfactor_user						
								service-access-controller
								service-access-controller.war
		root						
		root						
		dfactor_user						
		dfactor_user		39997021	Jan	25	10:03	wizard.war
[root@Keysca	ale	r6741 webapps	#					

*Item 14 – List of all the existing \*.war files* 

Create a new directory e.g., *backup/webapps* and move these \*.war files into that new directory:

[dfactor\_user@host ~]\$ mkdir /var/dfactor/backups/webapps



[dfactor\_user@host ~]\$ <mark>cp /var/www/tomcat/webapps/\*.war /var/dfactor/backups/webapps/</mark>

Item 15 – Backup the \*.war files

#### 4.5 Remove the old folders

For the new \*.war files to take effect, first remove their respective folders, so that new ones get created.

[dfactor\_user@host ]\$ cd /var/www/tomcat/webapps/ [dfactor\_user@host ]\$ rm -rf cp/ [dfactor\_user@host ]\$ rm -rf keyscaler-services/ [dfactor\_user@host ]\$ rm -rf kms/ [dfactor\_user@host ]\$ rm -rf kms-uservice/ [dfactor\_user@host ]\$ rm -rf service/

Item 16 – Remove the old application folders

#### If the SAC is running on the same server:

[dfactor\_user@host webapps]\$ <mark>rm service-access-controller.war</mark>

[dfactor\_user@host webapps]\$ <mark>rm -rf service-access-controller/</mark>

Item 17 – Remove old files and directories for SAC (same server)

If the SAC is running on a different server, transfer the *sac.tar.gz* file to the SAC server. The directions below assume the file have been paced in the */tmp* folder.

Log into the SAC server, and stop the SAC service

og into the brite server, and stop the brite service
[root@host ]# <mark>/var/www/tomcat/bin/shutdown.sh</mark>
# change to dfactor_user
[root@host ]# <mark>su - dfactor_user</mark>
# remove the existing SAC and deploy the new one
[dfactor_user@host ]\$ <mark>cd /var/www/tomcat/webapps/</mark>
[dfactor_user@host webapps]\$ <mark>rm service-access-controller.war</mark>
[dfactor_user@host webapps]\$ <mark>rm -rf service-access-controller</mark>

*Item 18 – Separate SAC Server – Remove Old files and directories* 

At this point, you are ready to upgrade the KeyScaler system.



# **5 Upgrade KeyScaler**

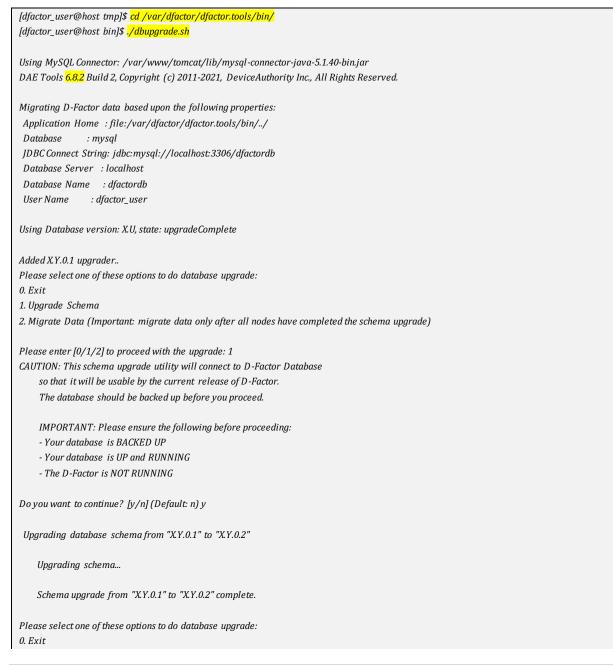
#### 5.1 Upgrade and Migrate Database

Steps outlined in this section must be run as Linux user dfactor\_user

1) Deploy KeyScaler tools (dfactor\_tools.tar.gz) under /var/dfactor by using the instructions in Deploying the D-FACTOR tools.

Note: New tools must be deployed with each upgrade

- 2) Run the Database Upgrader tool, *dbupgrade.sh* that will:
  - upgrade the database schema
  - migrate all the data





```
1. Uparade Schema
 2. Migrate Data (Important: migrate data only after all nodes have completed the schema upgrade)
 Please enter [0/1/2] to proceed with the upgrade: 2
 CAUTION: This data migration utility will connect to D-Factor Database
      and migrate the data so that it will be usable by the current
      release of D-Factor. The database should be backed up before you
      proceed.
      IMPORTANT: Please ensure the following before proceeding:
      - Your database is BACKED UP
      - Your database is UP and RUNNING
      - The D-Factor is NOT RUNNING
 Do you want to continue? [y/n] (Default: n) y
 Data will be migrated from version "X.U" to version "X.Y.0.6"
 Migrating database from "X.U" to "X.Y.0.1"
      migrating data...
      Data migration complete, performing post-migration schema actions...
      Database migration from "X.U" to "X.Y.0.1" complete.
Item 19 - Updating the database schema and Migrating the Data (note: the build number may vary)
  hfactor_user@aptiv-remote-factory bin]$ ./dbupgrade.sh
bing MySQL Connector: /var/www/tomcat/lib/mysql-connec
```

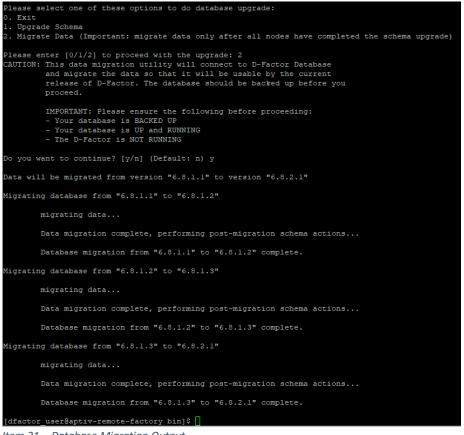
```
Using MySQL Connector: /war/www/tomcat/lib/mysql-connector-java-5.1.40-bin.jar
DAE Tools 6.8.2 Build 1, Copyright (c) 2016-2022, Device Authority Ltd., All Rights Reserved.
 Migrating D-Factor data based upon the following properties:
Application Home : file:/home/dfactor_user/dfactor.tools/bin/../
Database : mysql
JDBC Connect String: jdbc:mysql://localhost:3306/dfactordb
Database Server : localhost
Database Name : dfactordb
User Name : dfactor_user
  Jsing Database version: 6.8.1.1, state: upgradeComplete
 Added 6.8.1.2 upgrader..
Added 6.8.1.3 upgrader..
Added 6.8.2.1 upgrader..
 Please select one of these options to do database upgrade:
). Exit
   . Upgrade Schema
. Migrate Data (Important: migrate data only after all nodes have completed the schema upgrade)
 Please enter [0/1/2] to proceed with the upgrade: 1
 CAUTION: This schema uggrade utility will connect to D-Factor Database
so that it will be usable by the current release of D-Factor.
The database should be backed up before you proceed.
               IMPORTANT: Please ensure the following before proceeding:

- Your database is BACKED UP

- Your database is UP and RUNNING

- The D-Factor is NOT RUNNING
   Upgrading database schema from "6.8.1.1" to "6.8.1.2"
             Upgrading schema...
             Schema upgrade from "6.8.1.1" to "6.8.1.2" complete.
             Upgrading schema...
              Schema upgrade from "6.8.1.2" to "6.8.1.3" complete.
             Upgrading schema...
             Schema upgrade from "6.8.1.3" to "6.8.2.1" complete.
Item 20 – Schema Upgrade Output
```





Item 21 – Database Migration Output

**Note:** For an HA Environment you only need to do this on one SQL server on the cluster and sync when brought back online.

#### **5.2 Upgrade Master and Tenant Packages**

In this step, you will be updating the Tenant Accounts onto the server that will be running the KeyScaler Control Panel.

• Core Package for Tenant accounts holds DDKG libraries and KeyScaler Agents for Tenants.

Note: You will need to have the Tenant Account Number available for these steps

1) On the KeyScaler server that is running the Control Panel, go to the /var/dfactor directory

[dfactor\_user@host ~]\$ <mark>cd /var/dfactor</mark>

Item 22 – Change Directory

2) As the Linux user *dfactor\_user*, unzip the tenant CP and DAE tenant packages into CP's hosted downloaded directory (/var/dfactor/data/cp-hosted-downloads)

## Install Tenant ddkgs (Make sure you have the correct ddkg package for that tenant) [dfactor\_user@host ~]\$ <mark>mv /var/dfactor/data/cp-hosted-downloads/<1st\_tenant\_account\_number> /var/dfactor/data/cp-hosteddownloads/<tenant\_account\_number>.backup</mark>



[dfactor\_user@host ~]\$ cp coreX.Yzip /var/dfactor/data/cp-hosted-downloads/<tenant\_account\_number>

## If there are additional tenants, repeat the above steps for each additional tenant account. Make sure the correct ddkg package for the specific tenant

Item 23 – Upgrade Tenant Packages

**Note:** For HA environment, you will need to make sure this is done for each KeyScaler instance that hosts the CP component.

SERVER-SIDE SO	FTWARE							
Download Server Softwar			Size Release Date					
O Download: Samples Pa	ckage		11.3 MB	06/24/2021	NEW			

Item 24- KeyScaler CP – Sample Updated Download Software Screen



#### **5.3 Deploy KeyScaler Software Components**

Deploy the new war files that will upgrade system from current version to latest version

Copy the \*.war files that were uploaded to the KeyScaler system in section 4.2 Upload software to KeyScaler Server to webapps directory:

```
[root@host ~]# <mark>cp /tmp/*.war /var/www/tomcat/webapps/</mark>
[root@host ~]# <mark>ls -al</mark>
```

Item 25 – Copy \*.war files to the webapps directory

<pre>[root@ -remote-factory software]# cp *.war /var/www/tomcat/webapps/</pre>										
cp: overwrite `/var/www/tomcat/webapps/cp.war'? y										
cp: overwrite \/var/www/tomcat/webapps/keyscaler-services.war'? y										
cp: overwrite `/var/www/tomcat/webapps/kms-uservice.war'? y										
cp: overwrite `/var/www/tomcat/webapps/kms.war'? y										
cp: overwrite \/var/www/tomcat/webapps/service-access-controller.war'? y										
cp: overwrite `/var/www/tomcat/webapps/service.war'? y										
[root@ -remote-factory software]# 1s -al /var/www/tomcat/webapps/										
total 406560										
drwxr-xr-x. 6 dfactor_user tomcat 274 Jul 6 13:22 .										
drwxr-xr-x. 10 root root 183 Oct 7 2021										
drwxr-xr-x. 2 dfactor_user tomcat 176 May 16 12:40 backup										
drwxr-x 13 dfactor_user tomcat 4096 Jul 6 13:22 cp										
-rw-rr l root root 54650184 Jul 6 13:22 cp.war										
drwxr-x 4 dfactor_user tomcat 37 Jan 27 15:43 epic-azure-keyvault										
-rw-rr 1 dfactor_user tomcat 42273300 Jan 27 15:43 epic-azure-keyvault.war										
-rw-rr 1 root root 57242952 Jul 6 13:22 keyscaler-services.war										
-rw-rr l root root 63537499 Jul 6 13:22 kms-uservice.war										
-rw-rr l root root 66016792 Jul 6 13:22 kms.war										
drwxr-xr-x. 2 root root 39 Mar 23 15:22 Metadata_migration_vl										
-rw-rr l root root 42614622 Jul 6 13:22 service-access-controller.war										
-rw-rr l root root 89959756 Jul 6 13:22 service.war										
-rwxr-xr-x. l root root 839 Jan 10 12:39 version.sh										
[root@ -remote-factory software]#										

Item 26 – Sample list of all KeyScaler war file components in webapps directory

**Note:** For HA Environment, make sure to do this on each KeyScaler instance. Make sure to check the properties files are ready and available for the KeyScaler instance to use.

If the SAC is running on a different server, transfer the sac.tar.gz file to the SAC server and unpack the file. The directions below assumes that the file has been placed in the */tmp* folder:

[dfactor\_user@host webapps]\$ tar -xvzf /tmp/service-access-controller.war -C /var/www/tomcat/webapps

Item 27 - Deploy the SAC software on separate SAC server

#### 5.3.1 Update KMSSA Properties

To prevent a collision with a reserved property name, the 'pid' property in the KMSSA has been updated to use the new name 'pidentity.' To make this change, do the following:

- 1) Edit the file at /var/dfactor/config/kmssa.properties
- 2) Change the name of the 'pid' property to 'pidentity'
- 3) Save the kmssa.properties file



broadcast.bufsize=15000
keepalive.interval=10000
<mark>pidentity</mark> =d042b4a2-fa2c-4305-940c-3c8ddae7d35e
broadcast=false
keepalive.threshold=5
mode=0A
broadcast.timeout=1000
authenticated=true
broadcast.interval=10
broadcast.port=8888
keyscaler.kms.1=demo.mykeyscaler.com:8443
kafka.bootstrap.servers=demo.mykeyscaler.com\:9092
psecret=2e392554-9b34-7656-83 ce-052 3444 7bf85

Item 32 - The updated kmssa.properties file

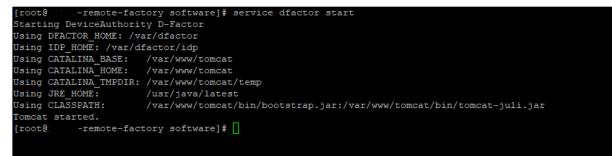
#### 5.4 Start the KeyScaler Service

Check that you are root user and start the dfactor service:

[devuser@host ~]# <mark>sudo su</mark> [root@host ~]# <mark>service dfactor start</mark>

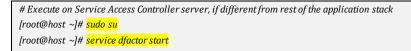
Item 33 – KeyScaler Server: Start KeyScaler Server

Note: For an HA environment make sure you start the services on ALL KeyScaler instances.



Item 34 – dfactor service started

If the SAC is running on a different server:



Item 35 – Start SAC services



## 5.5 Post-Upgrade Verification

#### 5.5.1 Check KeyScaler module versions

From the /home/dfactor\_user/dfactor.tools/bin/ directory run the script file called version.sh

[root@host ~]# ./version.sh

Item 28 – Check KeyScaler Module versions

This will supply the versions of the modules deployed for this upgrade.

[dfact	or_u	ser@ap	otiv-	-remo	te-1	fact	ory	bin]	\$	./ve	rsion	ı.sh
KeySc	aler	Versi	ion		***	* * * *	***1	****		****		
*****	****	*****	****	****	***	****	***1	****	**	****		
DAE	>>	6.8.2	2.1									
SAC	>>	6.8.2	2.1									
KMS	>>	6.8.2	2.1									
KMS-MS	>>	6.8.2	2.1									
KS-MS	>>	6.8.2	2.1									
CP	>>	6.8.2	2.1									
[dfact	or_u	ser@ap	ptiv-	-remo	te-i	fact	ory	bin]	Ş			

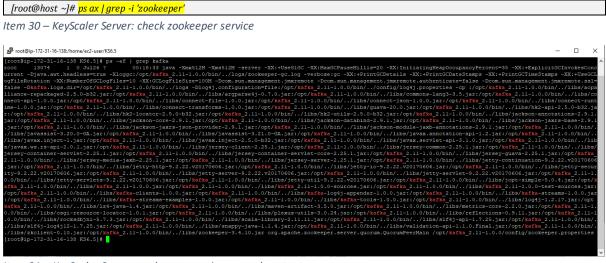
Item 29 - Sample output for - Check KeyScaler Module versions

For KeyScaler v6.8.2 the above modules versions should be expected and should match the Release notes.

#### 5.5.2 Verify Kafka and Zookeeper services are still running

**Note:** This section only applies to environments using a local Kafka service – if you are using a managed service (i.e., Azure Event Hubs for Kafka), you may skip this section.

Ensure that the kafka and zookeeper services are still running:





[root@host ~]# <mark>ps ax | grep -i 'kafka\.Kafka'</mark> Item 32 – KeyScaler Server: check kafka service





*Item 33 – KeyScaler Server: kafka service example output* 

If not running, then execute the following two commands and check again.

#### For Kafka version for HA systems: **kafka\_2.11-1.0.0**:

[root@host ~]# /opt/kafka\_2.11-1.0.0/bin/zookeeper-server-start.sh -daemon /opt/kafka\_2.11-1.0.0/config/zookeeper.properties [root@host ~]# /opt/kafka\_2.11-1.0.0/bin/kafka-server-start.sh -daemon opt/kafka\_2.11-1.0.0/config/server.properties

Item 34 – KeyScaler Server: to start Kafka and zookeeper services for kafka\_2.11-1.0.0

# On single stack (non-HA systems) If using Kafka version **kafka\_2.12-2.8.1** then use the following commands:

[root@host ~]# <mark>/opt/kafka\_2.12-2.8.1/bin/zookeeper-server-start.sh -daemon /opt/kafka\_2.12-2.8.1/config/zookeeper.properties</mark> [root@host ~]# <mark>/opt/kafka\_2.12-2.8.1/bin/kafka-server-start.sh -daemon /opt/kafka\_2.12-2.8.1/config/server.properties</mark>

Item 35 – KeyScaler Server: to start Kafka and zookeeper services kafka\_2.12-2.8.1



# **6 Upgrade Sanity Tests**

#### 6.1 KeyScaler Control Panel

Login to the control panel and check all looks normal. Ensure the version at the bottom of the page matches the latest version you have deployed:

```
Copyright (c) 2016 - 2022 Device Authority, Ltd. All rights reserved. | Powered by Device Authority 6.8.2 Build 1 | Support | Terms of Use | 🔞 Control of the use of authorized users that have entered into a separate agreement with Device Authority. Ltd. for their use of them. The Device Authority Agreement sets forth the terms of use for any authorized users. Any other access to the Services is not permitted and persons doing so will have no rights of privacy. Any unauthorized access to the Services may result in disclosure to law enforcement officials and/or be subject to civil and/or criminal penalties.
```

Item 36 – Check KeyScaler version number

## 6.2 Download Core Packages

Ensure the Core Packages can be downloaded without experiencing any issues.

root@host:~\$ <mark>curl -v https://sac.xyzcorpXY.com:8443/service-access-controller/health/ping</mark>

SOFTWARE DOWNLOAD STAGING TENANT			
SERVER-SIDE SOFTWARE			
Download Server Software	Size	Release Date	Last Down
O Download: Samples Package	11.3 MB	06/24/2021	NEW
CLIENT-SIDE SOFTWARE			
Tenant Account DDKGs	Size	Release Date	Last Down

Item 37 – Control Panel: Download Software

## 6.3 Curl to the SAC

From any device ensure you can curl to the SAC and get a HTTP code 200 message back as follows:

```
// Jean 38 - Your computer: CURL Test command
// jean 38 - Your computer: CURL Test command
// jean 38 - Your computer: Curl - v https://keysolerdemo.sac.keysoler.com/service-access-controller/health/ping
// Trippillary
// Tri
```

Item 39 – Your computer: cURL Test output



Important: In case of any issue please Contact DeviceAuthority Support, <u>support@deviceauthority.com</u>

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