

10/02/2024

Keysight Hawkeye 6.0.1 Migration document

Hawkeye 6.0.1 is a Debian 12 bookworm-based server.

Hawkeye Server 6.0.1 is a general availability release on the Debian12 platform. New customers can use the Hawkeye 6.0.1 OVA or QCOW2 for deployment.

Existing customers please go through these migration steps to move your server from Hawkeye 5.5.5 to Hawkeye 6.0.1

Prerequisites

1. The migrating Hawkeye server must be in Hawkeye 5.5.5 version, any versions before 5.5.5, please upgrade to Hawkeye 5.5.5 before attempting to migrate to Hawkeye 6.0.1
2. If your existing Hawkeye system has Vision E1S as a probe, please do not migrate. Stop here and contact customer support.
3. Have access to Hawkeye 6.0.1 User guide and Getting started Guide; these can be downloaded through support.ixiacom.com
4. Make note of all the tuning was done to your Hawkeye 5.5.5 system so that you can apply for Hawkeye 6.0.1

Migration Process Highlights

1. Perform Backups on Hawkeye 5.5.5-80 server
 - Results backup must be compressed into .bz2 file
 - This may take hours depending on the size of results DB.
 - Configuration backup can be moved “as is” no compression is necessary.
2. Deploy new Hawkeye 6.0.1 server
3. Migrate licenses from 5.5.5 to 6.0.1
4. Perform all setup and tuning based on system resources.
5. Restore Configuration on 6.0.1
6. Restore Results on 6.0.1
7. Migrate any probes which did not get automatically redirected to 6.0.1

Backups of Hawkeye 5.5.5-80 Server

Prerequisite: -

- Ensure that the Automatic Backups are disabled while compressing the existing backup.
- Make sure you have enough space in your server to store the backup data

Backup and restore Hawkeye databases

Hawkeye Results Data

Hawkeye Results are stored in a NoSQL database for faster response times and to facilitate future expansion. Hawkeye Results data is backed up every night at midnight server time. System administrators are also presented with the option to create a backup of the Hawkeye Results data as part of a server update.

Hawkeye Configuration Data

Hawkeye Configuration data is stored in a SQL database. System Administrators are presented with the option to create a backup of the Hawkeye Configuration data as part of a server update. Otherwise, a backup can be manually triggered from the Hawkeye UI.

Creating a Configuration Backup

1. Login to the UI as system administrator and navigate to the System Page and click on the “Backup” button in the data pane.
2. Set configuration slider to “On” and click “Backup Now”

Backup Data

Good to know:

- Backups could take from few minutes to hours depending on your "Results" size(if selected) and hardware capabilities.
- Backups are executed in background, after process is finished you will receive a notification with status.

Required:

- **DO NOT** reboot / power off system during process.

Configuration

On

Results

Off

Backup Now

- Once backup is completed, you will get a notification with the path to the backup to copy from the server:

Notifications Details	
Id	3975
Type	Configuration backup completed
Content	Backup configuration data successfully completed and stored at /opt/backup/Hawkeye_Configuration_backup.sql.bz2
Is Active	yes
Is Read	no
Login	sysadmin
Created At	2024/09/10 12:52:21

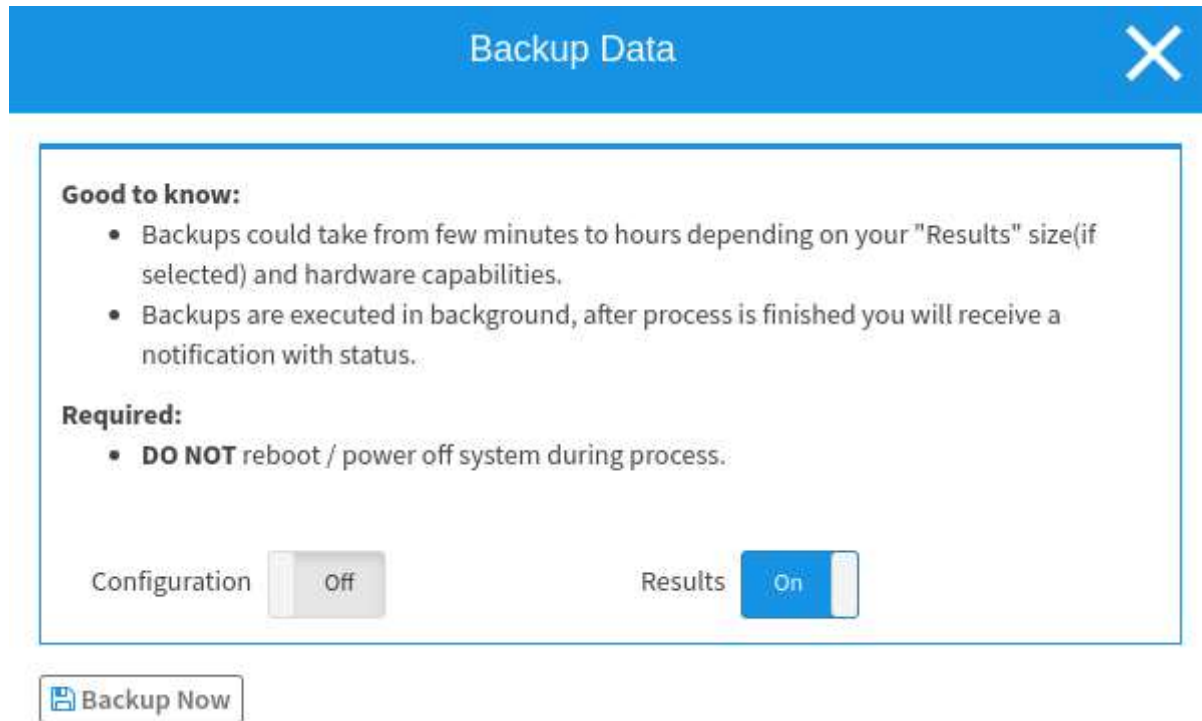
- Copy this file to your device using your preferred file transfer method so it can be uploaded to your Hawkeye 6.0.1 server in a later step.

Creating a Results Backup

1. Ensure you disable automatic backups while you compress the existing backup

Hawkeye 5.5.5 server => Preferences => Main => Backup Results Interval => disabled => Save

2. Login to the UI as system administrator and navigate to the System Page and click on the "Backup" button in the data pane.
3. Set Results slider to "On" and click "Backup Now"



4. Once backup is completed, you will get a notification with the path to the backup on the server:

Notifications Details	
Id	3998
Type	Results backup completed
Content	Results backup completed and stored at /opt/backup/elasticsearch
Is Active	yes
Is Read	no
Login	sysadmin
Created At	2024/09/24 13:55:00

5. Login to 5.5.5 server cli, run following commands:

```
# cd /opt/backup/elasticsearch/
# tar -Jcvf ../myResultsBackup.bz2 *
```

NOTE: This can take hours to complete depending on database size. For backups (.bz2) larger than 10G it is recommended to not use UI for restore

6. Once the tar is complete you will be ready to scp the file to your Hawkeye 6.0.1 server once it is online. If you need to shut down the 5.5.5 server prior to bringing up the 6.01 server, you can copy this .bz2 file to your local device using your preferred file transfer method.

```
/opt/backup/myResultsBackup.bz2
```

Deploy new Hawkeye 6.0.1 Server

Hawkeye Server 6.0.1 is a general availability release on the Debian12 platform. New customers can use the Hawkeye 6.0.1 OVA or QCOW2 for deployment. Check our release notes and the getting started guide for more information on the specifics of deployment, resource requirements and tuning of the system.

STATIC IP SERVER

- If your 5.5.5 server installation uses static ip assignment:
- Move the static IP to the 6.0.1 server
- All probes configured to connect to Hawkeye via the static IP will register to the new server.

DHCP SERVER

- If you 5.5.5 server uses DHCP and the probes are configured to connect via Hostname:
- Move the Hostname to the 6.0.1 Server
- This MUST be done prior to licensing the 6.0.1 server.
- All probes configured to connect to Hawkeye via the hostname will register to the new server.

If neither of the above apply to your 5.5.5 installation You will have to connect to each probe and run probeConfigure to point the probes to the new server.

Migrate the Licenses from Hawkeye 5.5.5 to Hawkeye 6.0.1

Both Hawkeye 5.5.5 and Hawkeye 6.0.1 supports online and offline license operations

- License must be deactivated on the Hawkeye 5.5.5 server first
- If hostname changes are necessary, do them at this time onto the new server
- Licenses can then be activated on the new server either offline or online. Make sure Internet connection to the Hawkeye server is necessary for online activation.

Restore Results and Config Backups to Hawkeye 6.0.1

Restore Configuration

To start the restore process navigate to the System page on the side bar and select the **Upload** button in the Data Pane. This will open the Upload backup dialog box

Click the “Configuration backup archive” Tab and then “Browse /file” button and select the configuration file and upload the configuration file. Once the upload is complete the system will restore the uploaded file.

Upload Backup File

Configuration backup archive

Results backup archive

Good to know:

- Only .bz2 file extension accepted.
- During backup file upload and running procedure system will not be available.
- Restore could take from few minutes to hours depending on uploaded file size(if selected) and hardware capabilities.
- After the procedure ends, a notification will inform you about backup running status.

Required:

- **DO NOT** reboot / power off system during process.

Drag and drop file here.

 Browse file

Cancel

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Restore Results

Once the restore of the configuration is done, you can start the restore of the results.

Note: - For backups (.bz2) larger than 10G it is recommended not to use the UI for restore, but to use the CLI for restoring the results.

Log into Hawkeye 6.0.1 server with the credentials highlighted in the user guide and enter the following command. <Path to results.bz2> is the path where the file is stored.

restoreData -r -rl <path to results.bz2 file>

Learn more at: www.keysight.com

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