

# Deploying multiple 2.x ZIPs or JARs on the same server

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This information is only valid for **CAST Dashboard 2.x** when using a **ZIP/JAR** deployment (i.e. without Apache Tomcat).

## Introduction

The following situations require some small changes to the Dashboard deployment process so that each Dashboard deployment does not conflict with another:

- when multiple standalone 2.x Dashboards need to be run from the same server
- when embedded AIP Console Dashboards (from v. 1.25) need to be run on the same machine as standalone 2.x ZIP/JAR dashboards

## Required changes

### Step 1 - Change the port on which the Dashboard is running - Linux and Microsoft Windows

By default the ZIP/JAR Dashboards are preconfigured to run on the following ports to accept incoming connections:

|                              |      |
|------------------------------|------|
| <b>Standalone dashboards</b> | 8080 |
| <b>Embedded dashboards</b>   | 8087 |

If you want to run multiple ZIPs / JARs on the same server, you must ensure that each Dashboard uses a **unique port**. You can change the port in the following file:

```
<install_folder>\configurations\application.properties
```

Locate the following lines in the file:

```
Standalone dashboards

# Configure server port. This is necessary only for the .jar mode/version
# server.port=8080

Embedded dashboards

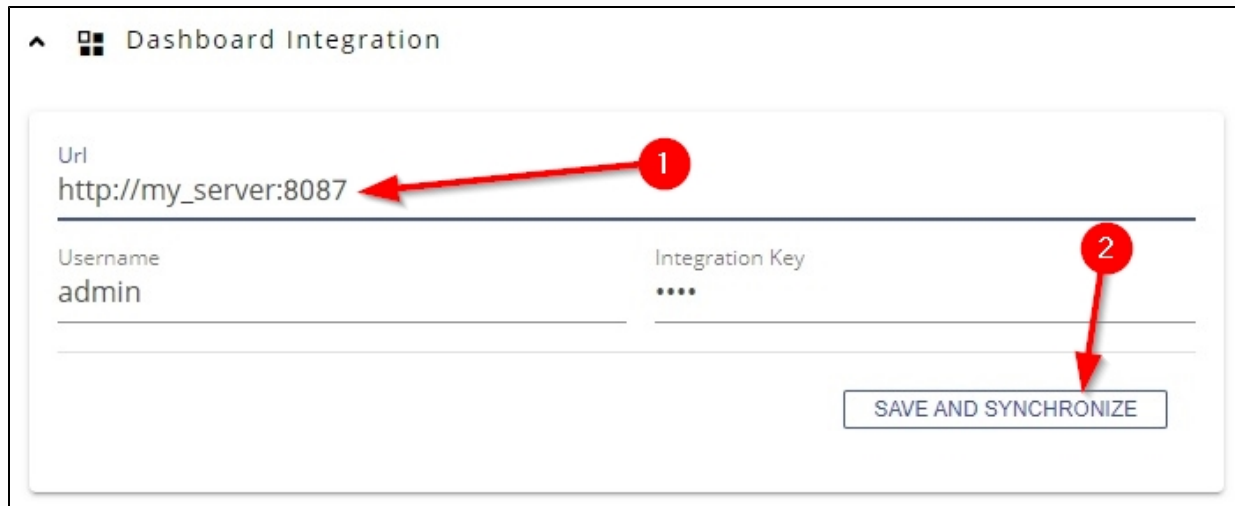
# Configure server port. This is necessary only for the .jar mode/version
server.port=8087
```

Uncomment the `server.port` line (if commented) and modify the port number to make it unique and save the file:

```
server.port=8090
```

Restart the application to ensure the changes are taken into account.

**i** If you change the port number for your **embedded dashboards**, you will need to update the configuration in AIP Console, see [Administration Center - Settings - Dashboard Integration](#):



Dashboard Integration

Url  
http://my\_server:8087

Username  
admin

Integration Key  
\*\*\*\*

SAVE AND SYNCHRONIZE

## Step 2 - Change Microsoft Windows service name - Microsoft Windows only

If you are deploying the dashboards on Microsoft Windows and you intend to run them via a Microsoft Windows service, you must make some changes **BEFORE** you install the services or run the wizard installer in 2.5 so that each service is unique. For each service that you want to install, perform the following actions:

### Modify the dashboard-service-install.bat file

Open the following file with a text editor:

```
<install_folder>\dashboard-service-install.bat
```

Change the following lines to something unique, for example, add a digit for each dashboard:

```
set SERVICE_NAME=dashboard-service  
set DISPLAY_NAME="CAST Dashboard Service"  
set DESCRIPTION="CAST Dashboard Service"
```

E.g.:

```
set SERVICE_NAME=dashboard-service-1  
set DISPLAY_NAME="CAST Dashboard Service 1"  
set DESCRIPTION="CAST Dashboard Service 1"
```

Save the file.

### Rename the .exe files to match SERVICE\_NAME

Now rename the following .exe files to match EXACTLY the name you chose for **SERVICE\_NAME** in **dashboard-service-install.bat**:

```
<install_folder>\dashboard-service.exe  
<install_folder>\dashboard-servicew.exe  
<install_folder>\amd64\dashboard-service.exe
```

E.g. where SERVICE\_NAME=dashboard-service-1:

```
<install_folder>\dashboard-service-1.exe  
<install_folder>\dashboard-service-1.exe  
<install_folder>\amd64\dashboard-service-1.exe
```

## Run the dashboard-service-install.bat

The final step is to run the following file to install the Microsoft Windows Service for your dashboard:

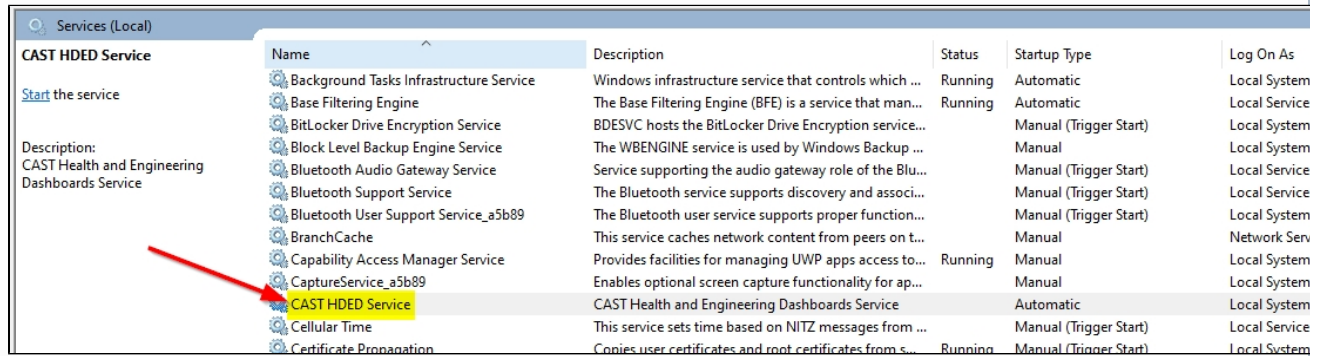
```
<install_folder>\dashboard-service-install.bat
```

Ensure that the service has been installed and run it to check that the dashboard launches correctly.

## Deleting the services

Note that if you have installed Microsoft Windows services using the method described above, it will not be possible to use the **dashboard-service-uninstall.bat** provided by CAST to remove the services if they are no longer required. In this scenario, you should instead use the **sc.exe** utility (provided with Microsoft Windows) from a CMD window (the CMD window must be run with **elevated permissions** (run as administrator)), for example:

First, identify the **display name** of the service you want to remove in the services control panel. In the example below this is "**CAST HDED Service**":



| Name                                    | Description  | Status    | Startup Type           | Log On As     |
|---|--|-----------|------------------------|---------------|
| CAST HDED Service                       | CAST Health and Engineering Dashboards Service           | Automatic | Local System           |               |
| Background Tasks Infrastructure Service | Windows infrastructure service that controls which ...   | Running   | Automatic              | Local System  |
| Base Filtering Engine                   | The Base Filtering Engine (BFE) is a service that man... | Running   | Automatic              | Local Service |
| BitLocker Drive Encryption Service      | BDESVC hosts the BitLocker Drive Encryption service...   |           | Manual (Trigger Start) | Local System  |
| Block Level Backup Engine Service       | The WBENGINE service is used by Windows Backup ...       |           | Manual                 | Local System  |
| Bluetooth Audio Gateway Service         | Service supporting the audio gateway role of the Blu...  |           | Manual (Trigger Start) | Local Service |
| Bluetooth Support Service               | The Bluetooth service supports discovery and associ...   |           | Manual (Trigger Start) | Local Service |
| Bluetooth User Support Service_a5b89    | The Bluetooth user service supports proper function...   |           | Manual (Trigger Start) | Local System  |
| BranchCache                             | This service caches network content from peers on t...   |           | Manual                 | Network Serv  |
| Capability Access Manager Service       | Provides facilities for managing UWP apps access to...   | Running   | Manual                 | Local System  |
| CaptureService_a5b89                    | Enables optional screen capture functionality for ap...  |           | Manual                 | Local System  |
| Cellular Time                           | This service sets time based on NITZ messages from ...   |           | Manual (Trigger Start) | Local Service |
| Certificate Propagation                 | Copies user certificates and root certificates from s... | Running   | Manual (Trigger Start) | Local System  |

Now run the following command to identify the service's **key name** (this is not always the same as the display name), where DisplayName = the name displayed in the services list:

```
sc.exe GetKeyName "DisplayName"
```

E.g.:

```
sc.exe GetKeyName "CAST HDED Service"
```

In our example, the key name is **hded-service**:

```
C:\Users\James>sc.exe GetKeyName "CAST HDED Service"  
[SC] GetServiceKeyName SUCCESS  
Name = hded-service
```

Now run the following command to delete the service:

```
sc.exe delete "KeyName"
```

E.g.:

```
sc.exe delete "hded-service"
```

```
C:\WINDOWS\system32>sc.exe delete "hded-service"  
[SC] DeleteService SUCCESS
```