

# IBM Spectrum Conductor with Spark V2.2.0 RFE 110559 Readme File

## **About RFE 110559**

This package contains an enhancement that allows you to disable the terminal menu for the Jupyter 4.1.0 notebook. When the terminal menu is disabled, it shows up in the menu; however, it is greyed out as it is disabled.

**Readme file for:** IBM® Spectrum Conductor with Spark

**Product/Component Release:** 2.2.0

**Fix ID:** cws-2.2-build476876-jpmc

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# 1. Scope

Applicability	
Operating system	Management and compute hosts: <ul style="list-style-type: none"><li>Linux 64-bit</li></ul>
Product version	IBM Spectrum Conductor with Spark 2.2.0
Jupyter version	4.1.0

## 2. Configuration to enable RFE 110559

### 1) Prerequisites

1. IBM Spectrum Conductor with Spark V2.2.0 must be installed on a supported operating system. For more information, see [https://www.ibm.com/support/knowledgecenter/SSZU2E\\_2.2.0/installing/install\\_upgrade.html](https://www.ibm.com/support/knowledgecenter/SSZU2E_2.2.0/installing/install_upgrade.html).

### 2) Installation files

This package includes the following files:

File name	Description
Jupyter-4.1.0.tar.gz	Jupyter OOB package

### 3) Installation procedure

#### Before installation

1. Backup the notebook base data directory.

Note: For updated notebook packages, the notebook is undeployed and the new version is deployed. Therefore, if you specified the notebook base data directory under or the same with the notebook's deployment directory, the base data directory is removed. To retain your data, manually back up the contents of the base data directory before you update the Spark instance group.

To check the notebook's base data directory:

- a. Log in to the cluster management console as the cluster administrator.

- b. Click **Workload > Spark > Spark Instance Groups**, then click the Spark instance group that you want to check.
- c. Click the **Manage** button, and then click **Configure**.
- d. In the **Basic Settings** tab, click the **Configuration** link in the Notebooks section, and then check the “Base data directory” value.

If the notebook base data directory is under or is the same as the notebook’s deployment directory, backup the base data directory by running the following commands in the CLI:

```
> mkdir -p /tmp/backup-476876
> cp -a <BASE_DATA_DIRECTORY>/<SIG_NAME> /tmp/backup-476876
```

**Note:** You must backup the notebook base data directory for each Spark instance group that you want to upgrade.

### Installation steps

1. On the client machine where you have a browser, decompress the **cws-2.2.0.0\_x86\_64\_build476876.tgz** package. For example, for Linux:

```
> mkdir -p /tmp/build476876
> tar -zxof cws-2.2.0.0_x86_64_build476876.tgz -C /tmp/build476876
```

2. Log in to the cluster management console as the cluster administrator.
3. Add the Jupyter 4.1.0 package to your cluster:
  - a. Click **Workload > Spark > Notebook Management**, select **Jupyter**, click **Configure**.
  - b. In the **Deployment Settings** tab, click **Browse** in the **Package** section.
  - c. Select the `/tmp/build476876/Jupyter-4.1.0.tar.gz` package.
  - a. Modify the **Start command** field to add “`--disable_terminal true`”. For example:
 

```
./scripts/start_jupyter.sh --disable_terminal true
```
  - b. Click **Update Notebook**.

### After installation

1. From the cluster management console, click **Workload > Spark > Spark Instance Groups**.
  - a. Create a new Spark instance group that uses Jupyter 4.1.0. For details, see [Creating Spark instance groups](#).
  - b. If required, upgrade your existing Spark instance groups that uses Jupyter 4.1.0. For details, see [Updating existing Spark instance groups](#)
2. For the backed-up Spark instance groups, restore the notebook base data directory files:

```
> cp -a /tmp/build476876/<SIG_NAME> <BASE_DATA_DIRECTORY>
```

Verify that permissions and ownership of the replaced files are the same as they were before applying the fix. Update any file permissions or ownership as required.

## 3. How this feature works

Currently, the terminal menu works in the Jupyter notebook. With this feature, you can set the *disable\_terminal* parameter in the Start command field when you configure a notebook. When *disable\_terminal* is set to true, the terminal menu is disabled in the Jupyter notebook.

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