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# Get Started:

## Zowe fundamentals -> Zowe overview -> Component overview

**Zowe IntelliJ plugin**

"Zowe IntelliJ" plugin for Intellij-based IDEs - smart and Interactive Mainframe code editing tool that brings support for browsing, editing and creating data on z/OS via z/OSMF REST API.

We keep improving existing features that help you to:

* Start working with z/OS easily with no complex configurations.
* Organize datasets on z/OS, files on USS into Working Sets.
* Allocate datasets, create members, files and directories with different permissions.
* Perform renaming, copying and moving data in a modern way.
* Edit datasets, files and members. Smart auto-save will keep your content both in the editor and on the mainframe in-sync.
* Create multiple connections to different z/OS systems.
* Perform all available operations with Jobs.
* Highlight all IntelliJ supported languages automatically and recognize them once opened from the mainframe.

## FAQ: -> FAQ: Zowe and components

Why might I use Zowe Intellij plugin versus a traditional ISPF interface to perform mainframe tasks?

Answer: Zowe Intellij plugin allows you to access and work with data sets, members and jobs directly from your Intellij-based IDE.

How can I get started with Zowe Intellij plugin?

Answer: Install the plugin in your Intellij-based IDE directly from marketplace or download it from https://plugins.jetbrains.com/plugin/18688-zowe-explorer

Where can I use Zowe Intellij plugin?

Answer: You can use it in any Intellij-based IDE.

How do I get help with using Zowe Intellij plugin?

Answer: You can read detailed user guide and find any information you need here:   
<https://plugins.jetbrains.com/plugin/18688-zowe-explorer/user-guide>   
Also you can ask any questions in [Slack](https://openmainframeproject.slack.com/archives/C020BGPSU0M).

How can I create, edit and delete z/OSMF connection?

Answer: To create a connection expand plugin panel on an IDE sidebar (on the right side of your screen) and press the "wrench" pictogram, or go to "File" -> "Settings" (CTRL+ALT+S), select "Zowe Explorer" (Zowe Intellij plugin) and then switch to "z/OSMF connection" tab. Press “+” button and fill inn all necessary fields.

How can I contribute to Zowe Intellij plugin?

Answer: If you have something to introduce, but there is no related issue in the project repo, then you are free to either create the issue by yourself, or contact us to help you with it.  
More information: [CONTRIBUTION.md](https://github.com/zowe/zowe-explorer-intellij/blob/main/CONTRIBUTING.md)

# Setup:

Add new section: **Installing Zowe IntelliJ plugin**

**Installing:**

Install the plugin in your Intellij-based IDE directly from marketplace,

or download it from https://plugins.jetbrains.com/plugin/18688-zowe-explorer

Contact your RACF administrator so that your user is in the [IZUUSER RACF group](https://www.ibm.com/docs/en/zos/2.4.0?topic=guide-security-structures-zosmf).

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**Configuration:**

Create a z/OSMF connection and a working set.

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Note: z/OS 2.1 or higher is required [z/OSMF configuration](https://docs.zowe.org/stable/user-guide/systemrequirements-zosmf/). Plugin is in active development state.

# How to use the Plugin:

## How to create z/OSMF Connection:

After plugin is installed, you need to create a *z/OSMF* *connection* to your Mainframe (note: z/OSMF port should be specified at the end of the address). You can do it either by manually specifying all the needed info through the Settings tab, or just by clicking the "+" sign.

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How to create a Files Working set:   
To work with the Datasets and USS files you need to set up a *Files Working Set*.

How to create a new Working Set through the Settings:   
1. Go to plugin Settings.

2. Go to Files Working Sets tab (or go directly to File Explorer tab on the Plugin panel).

3. Press “+” button.  
4. Specify Working Set Name.   
5. Press “+” button and add necessary Mask.   
6. Press “OK” button.

7. Go to plugin panel and start working with data.

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**Data operations:**

The Plugin allows you to operate with your Datasets and USS files, also it allows to easily copy and move Datasets and USS files between local machine and mainframe.

## JES Explorer:

With this you can easily operate with your JCL jobs, see their logs, view and edit JCL with further job run. First of all, you need to create a *JES Working Set*, which will hold all the filters for the JES Explorer. You can do it either by clicking the "+" button in the JES Explorer tab, or through the plugin Settings.

How to create a *JES Working Set* through the Settings:

1. Go to plugin Settings.

2. Go to *JES Working Sets* tab (or go directly to JES Explorer tab on the Plugin panel).

3. Press “+” button.

4. Specify JES Working Set Name.

5. Press “+” button and add necessary Mask.

6. Press “OK” button.

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With plugin help you also can submit a job and see the output.

Plugin User guide: <https://plugins.jetbrains.com/plugin/18688-zowe-explorer/user-guide>

# Sample Use Cases:

Review the following use cases to understand how to use Zowe Intellij plugin.

Work with Datasets Using Zowe Intellij plugin you can create, rename and delete Datasets and members.   
You can create a new dataset, member, or allocate a dataset like an existing one by using “Allocate Like” menu item in a context menu.

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You can use the following functionalities when interacting with data sets:

* View data sets and use different Working Sets: You can see different datasets in the tree using several different Working Sets.
* Refresh the list of data sets. Use “Refresh” menu item in the context menu for any data set or Working set in a tree.
* Migrate data sets. Use “Migrate” menu item in the context menu for any data set.
* Rename data sets and members. Use “Rename” menu item in the context menu for any data set or member.
* Copy/move data sets and data set members. Use “Copy” / “Paste” / “Cut” menu items in the context menu for any data set or member.
* Edit data set members. Use double-click to open and edit any dataset member.
* Create data sets/members and specify the parameters. Use “New” -> “Dataset” / “Member” menu item in the context menu for any data set or member.
* Delete data set or data set member. Use “Delete” menu item in the context menu for any data set or dataset ember.
* Submit a JCL: You can submit a JCL from a chosen data set. Use “Submit Job” menu item in the context menu for any dataset member.
* Allocate Like: You can create a copy of a chosen data set with the same parameters. Use “Allocate Like” menu item in the context menu for any data set.

Work with USS files To work with USS files you need to set up a specified Working Set and then work with all available files and directories.

Using the context menu in Zowe Intellij plugin you can create, rename and delete files and directories.

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You can use the following functionalities when interacting with USS files:

* View Unix System Services (USS) files: You can view multiple USS files simultaneously.
* Rename USS files and directories. Use “Rename” menu item in the context menu for any directory or file.
* Edit USS files. Use double-click to open and edit any file.
* Create USS files and directories. Use “New” -> “Directory” / “File” menu item in the context menu for any directory or file.
* Delete USS files and directories. Use “Delete” menu item in the context menu for any directory or file.
* Copy/move USS files and directories. Use “Copy” / “Paste” / “Cut” menu item in the context menu for any directory or file.

## Work with jobs

This feature allows you to easily operate with your JCL jobs. First of all, you need to create a *JES Working Set*, which will hold all the filters for the JES Explorer. You can do it either by clicking the "+" button in the JES Explorer tab, or through the Settings.

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# Extend:

TBD

# Troubleshoot:

Feel free to recommend or to report everything on our GitHub:   
<https://github.com/zowe/zowe-explorer-intellij/issues>

Join us in [Slack](https://iba-mainframe-tools.slack.com/join/shared_invite/zt-pejbtt4j-l7KuizvDedJSCxwGtxmMBg#/shared-invite/email)

# Contribute:

See information here: [CONTRIBUTION.md](https://github.com/zowe/zowe-explorer-intellij/blob/main/CONTRIBUTING.md)