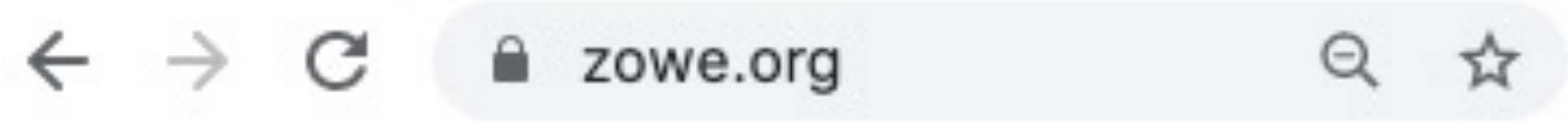
I
CICS

THE LINUX FOUNDATION

The Linux Foundation and the projects we support form the most ambitious and successful investment in the creation of shared technology



Zowe

zowe.org

Apps ch zowe-dev@lists.o... Zowe Your stories Other Bookmarks Reading List

THE LINUX FOUNDATION PROJECTS

OPEN MAINFRAME PROJECT Zowe

Overview Download Docs Learn Extend Community Support vNext

Announcements

Zowe 1.27.2 is now available. You can download the installers and PTFs (UO02000 UO02020) for this release from the Download page. To learn what's new in this release, see the Release notes.

Mark your calendars - the next weekly series of Zowe v2 Office Hours begins Wed Apr 6th 12:00pm EST Learn More

Zowe is NOT affected by the recently published log4j vulnerability. For more information, click Learn More

Open, Simple, Familiar

Combining the past and the present to build the future of mainframe

Zowe is an integrated and extensible open source framework for z/OS. Zowe, like Mac OS or Windows, comes with a set of APIs and OS capabilities that applications build on and also includes some applications out of the box.

Zowe offers modern interfaces to interact with z/OS and allows you to work with z/OS in a way that is similar to what you experience on cloud platforms today. You can use these interfaces as delivered or through plug-ins and extensions that are created by clients or third-party vendors.

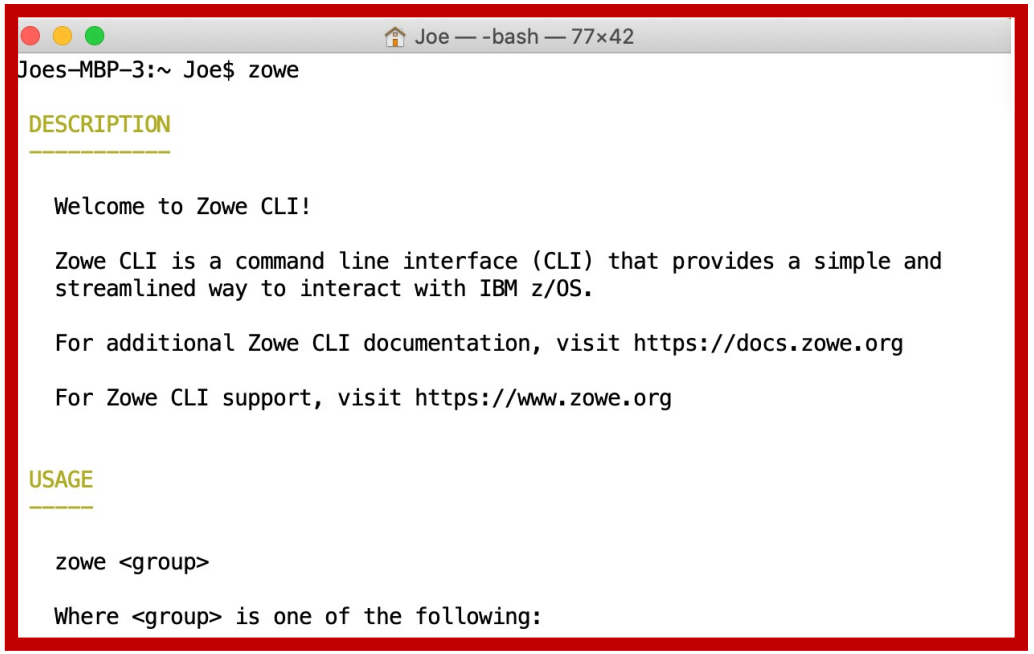
Zowe is composed of several components, each improving the learning ability, accessibility, and possibility of mainframe development.

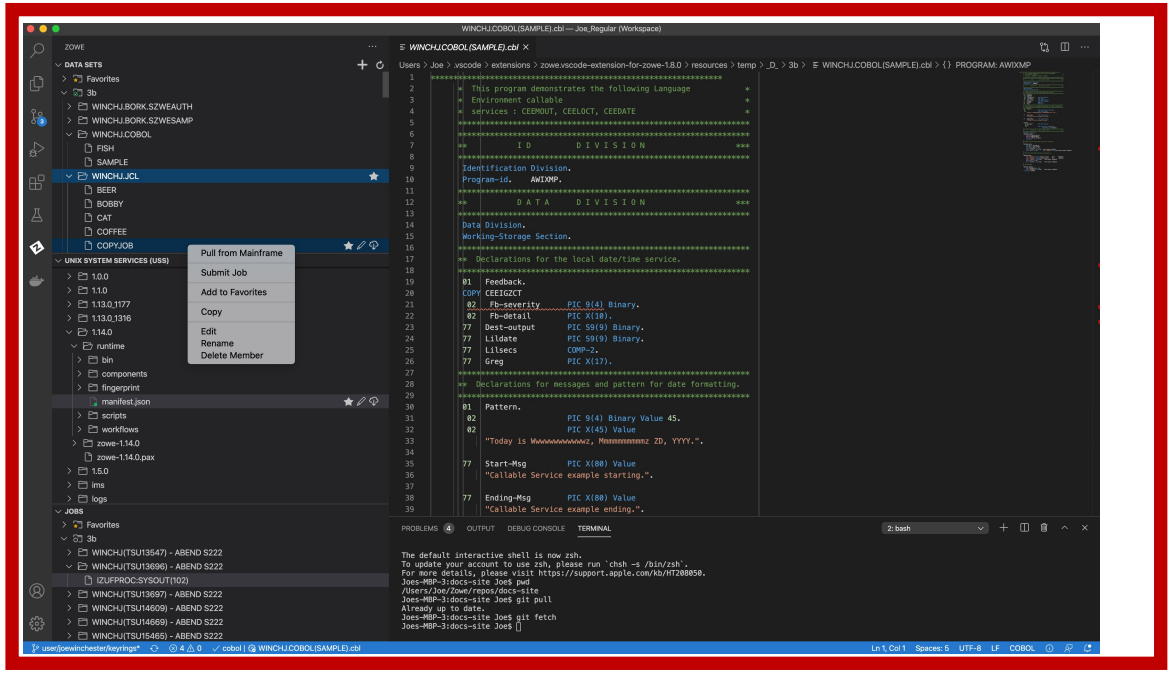
- Zowe Application Framework

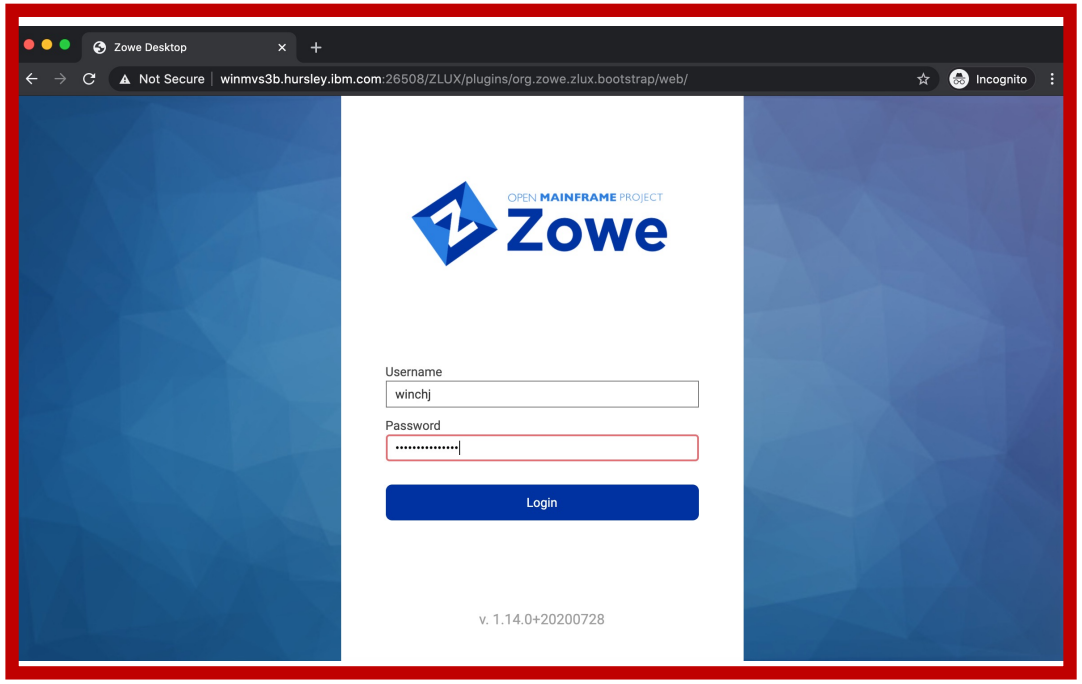
Download Slides (.pptx) | Download Transcript (.txt)

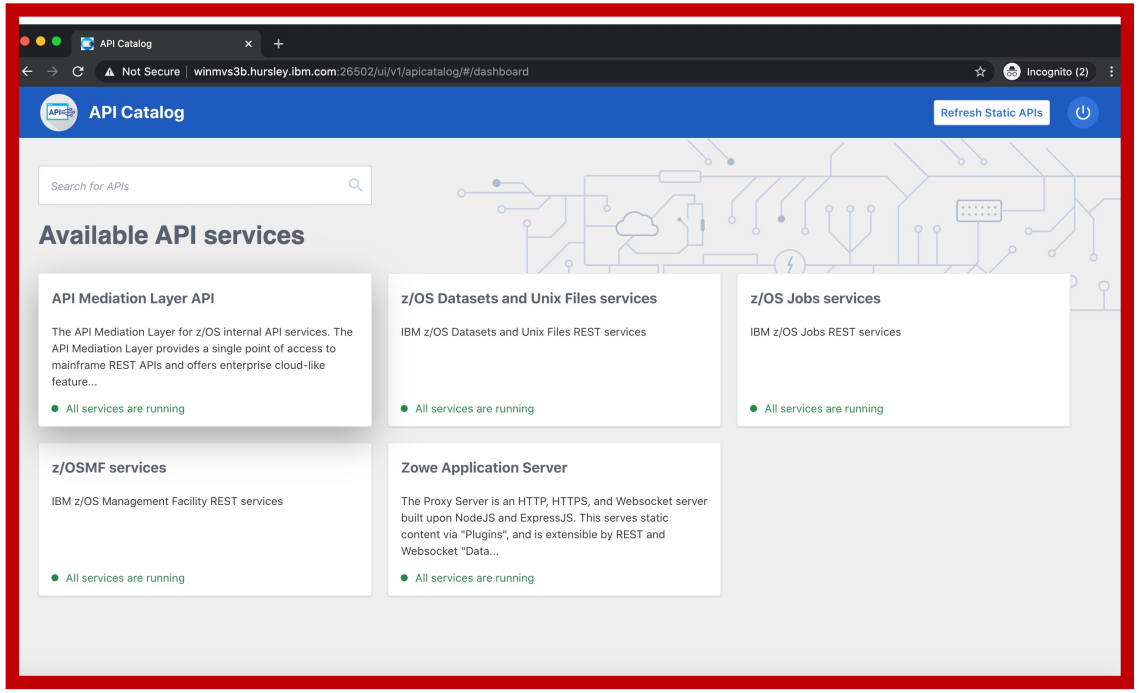
https://mainframeupdate.blogspot.com/2022/01/the-arcati-mainframe-yearbook-2022-user.html

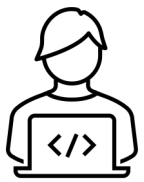
Zowe, the open-source way of accessing mainframes, was introduced in 2018. 19 percent of sites said that they are already using this open-source technology, with a massive 50 percent of sites having plans to make use of it in the coming year. Open-source technology is now becoming commonplace on mainframes.


Joe — -bash — 77×42
Joes-MBP-3:~ Joe$ zowe
DESCRIPTION
Welcome to Zowe CLI!
Zowe CLI is a command line interface (CLI) that provides a simple and streamlined way to interact with IBM z/OS.
For additional Zowe CLI documentation, visit https://docs.zowe.org
For Zowe CLI support, visit https://www.zowe.org
USAGE
zowe <group>
Where <group> is one of the following:


Pull from Mainframe
Submit Job
Add to Favorites
Copy
Edit
Rename
Delete Member

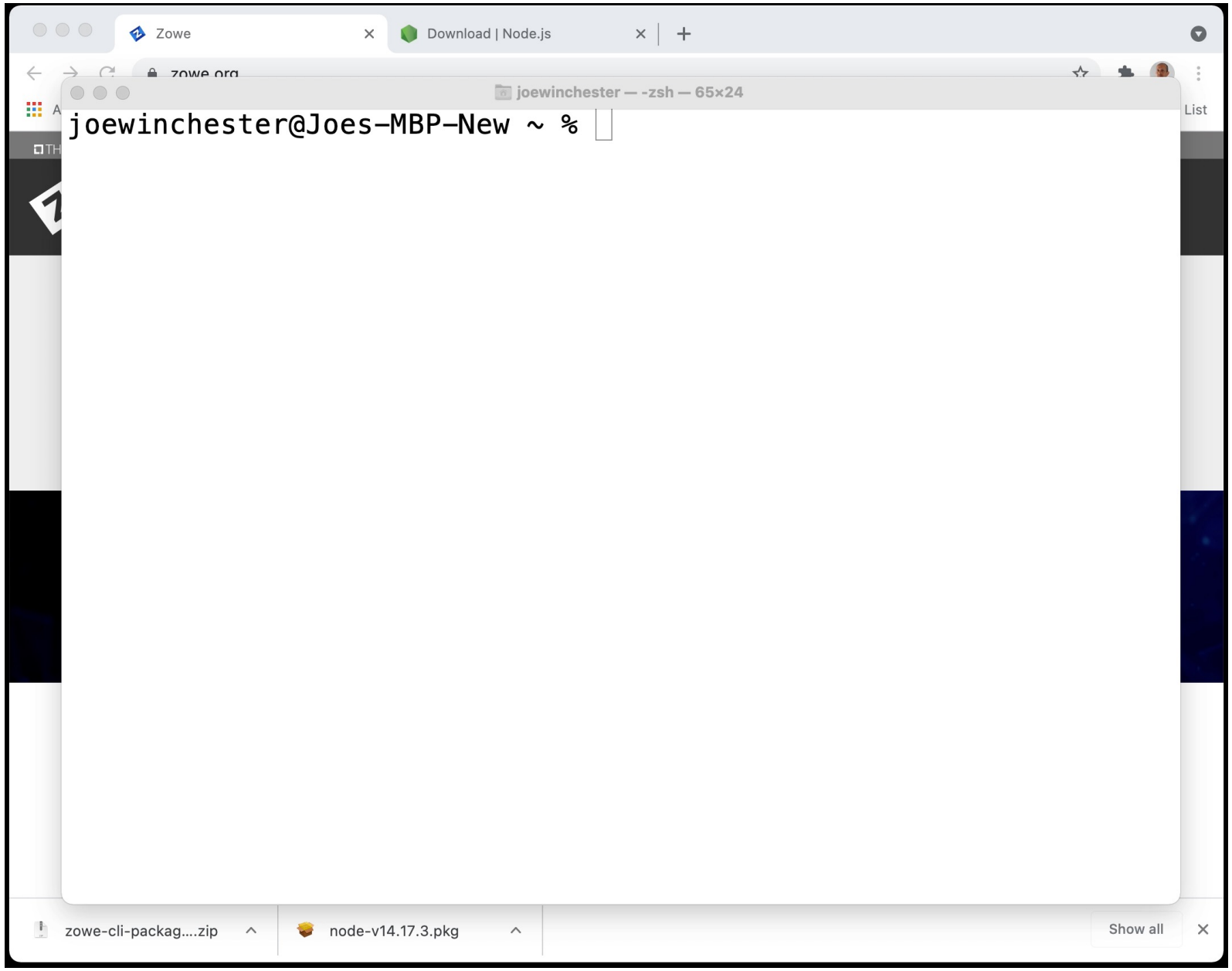

Zowe Desktop
Not Secure winmvs3b.hursley.ibm.com:26508/ZLUX/plugins/org.zowe.zlux.bootstrap/web/
Incognito
OPEN MAINFRAME PROJECT
Zowe
Username
winchj
Password
Login
v. 1.14.0+20200728


API Catalog
Not Secure winmvs3b.hursley.ibm.com:26502/ui/v1/apicatalog/#/dashboard
Incognito (2)
API Catalog
Refresh Static APIs
Search for APIs
Available API services
API Mediation Layer API
The API Mediation Layer for z/OS internal API services. The API Mediation Layer provides a single point of access to mainframe REST APIs and offers enterprise cloud-like feature...
All services are running
z/OS Datasets and Unix Files services
IBM z/OS Datasets and Unix Files REST services
All services are running
z/OS Jobs services
IBM z/OS Jobs REST services
All services are running
z/OSMF services
IBM z/OS Management Facility REST services
All services are running
Zowe Application Server
The Proxy Server is an HTTP, HTTPS, and Websocket server built upon NodeJS and ExpressJS. This serves static content via "Plugins", and is extensible by REST and Websocket "Data...
All services are running



CLI

z/OS


Zowe
Download | Node.js
zowe.org
joewinchester — -zsh — 65×24
joewinchester@Joes-MBP-New ~ %
List
zowe-cli-packag....zip
node-v14.17.3.pkg
Show all

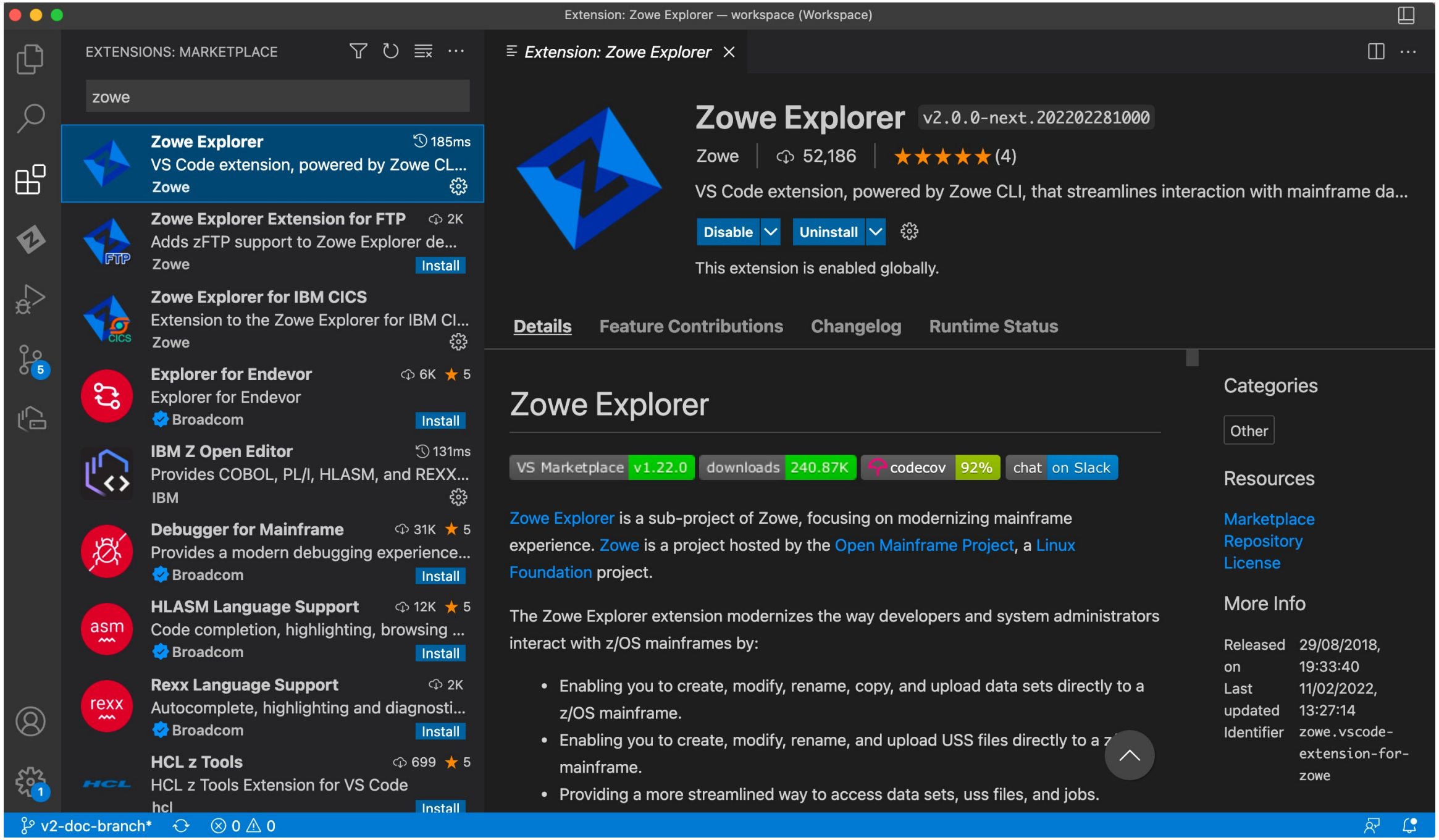
Using the Zowe Command Line Interface

joewinchester — -zsh — 65×10
joewinchester@Joes-MBP-New ~ %

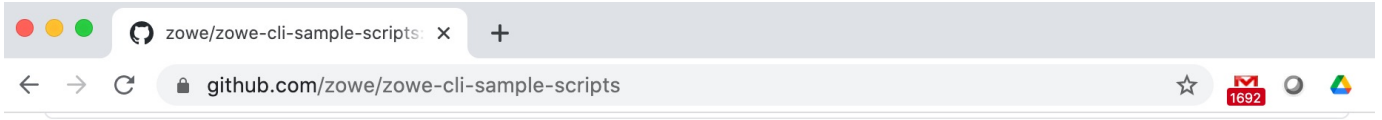
```
# Check and see if pds already exists
MATCHES=`zowe zos-files list data-set "$DEMO_PDS" --zosmf-p $ZOSMF_PROFILE --response-format-json | jq -r '.data.apiResponse.returnedRows'`
if [ $MATCHES -gt 0 ]; then
    echo "Data set $DEMO_PDS already exists, deleting"
    zowe zos-files delete data-set -f "$DEMO_PDS" --zosmf-p $ZOSMF_PROFILE
fi

zowe zos-files create data-set-classic $DEMO_PDS --zosmf-p $ZOSMF_PROFILE
zowe zos-files upload stdin-to-data-set "$DEMO_PDS(INPUT)" <<< $1 --zosmf-p $ZOSMF_PROFILE
zowe zos-files upload stdin-to-data-set --zosmf-p $ZOSMF_PROFILE "$DEMO_PDS(COPY)" <<EOF
//COPY JOB 123456, 'TSTRADM',NOTIFY='TSTRADM',
//         CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1)
//STEP1    EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=A
//SYSIN    DD DUMMY
//SYSUT1   DD DISP=SHR,DSN=$DEMO_PDS(INPUT)
//SYSUT2   DD DISP=SHR,DSN=$DEMO_PDS(OUTPUT)
//STEP2    EXEC PGM=AOPBATCH,PARM='sleep 5'
EOF
JOBID=`zowe jobs submit data-set "$DEMO_PDS(copy)" --zosmf-p $ZOSMF_PROFILE --response-format-json | jq -r '.data.jobid'`
echo "JOBID is $JOBID"

i="0"
while [ $i -lt 5 ]
do
    sleep 1s
    STATUS=`zowe jobs view job-status-by-jobid $JOBID --response-format-json --zosmf-p $ZOSMF_PROFILE | jq -r '.data.status'`
    if [ "$STATUS" = "OUTPUT" ]; then
        echo "Job $JOBID has now completed"
        i=5
    else
```

DevOps Dozen²™
2021
Drumroll, Please! The Winners of the 2021 DevOps Dozen² Awards Are ...

2021
DevOps Dozen²™
Tools and Services
winners
10
Best DevOps for
Mainframe Solution
Zowe


Extension: Zowe Explorer — workspace (Workspace)
EXTENSIONS: MARKETPLACE
zowe
Zowe Explorer 185ms
VS Code extension, powered by Zowe CL...
Zowe
Zowe Explorer Extension for FTP 2K
Adds zFTP support to Zowe Explorer de...
Zowe Install
Zowe Explorer for IBM CICS
Extension to the Zowe Explorer for IBM CI...
Zowe
Explorer for Endevor 6K 5
Explorer for Endevor
Broadcom Install
IBM Z Open Editor 131ms
Provides COBOL, PL/I, HLASM, and REXX...
IBM
Debugger for Mainframe 31K 5
Provides a modern debugging experience...
Broadcom Install
HLASM Language Support 12K 5
Code completion, highlighting, browsing ...
Broadcom Install
Rexx Language Support 2K
Autocomplete, highlighting and diagnosti...
Broadcom Install
HCL z Tools 699 5
HCL z Tools Extension for VS Code
hcl Install
Extension: Zowe Explorer
Zowe Explorer v2.0.0-next.202202281000
Zowe 52,186 (4)
VS Code extension, powered by Zowe CLI, that streamlines interaction with mainframe da...
Disable Uninstall
This extension is enabled globally.
Details Feature Contributions Changelog Runtime Status
Zowe Explorer
VS Marketplace v1.22.0 downloads 240.87K codecov 92% chat on Slack
Zowe Explorer is a sub-project of Zowe, focusing on modernizing mainframe experience. Zowe is a project hosted by the Open Mainframe Project, a Linux Foundation project.
The Zowe Explorer extension modernizes the way developers and system administrators interact with z/OS mainframes by:
Enabling you to create, modify, rename, copy, and upload data sets directly to a z/OS mainframe.
Enabling you to create, modify, rename, and upload USS files directly to a z
mainframe.
Providing a more streamlined way to access data sets, uss files, and jobs.
Categories
Other
Resources
Marketplace
Repository
License
More Info
Released on 29/08/2018, 19:33:40
Last updated 11/02/2022, 13:27:14
Identifier zowe.vscode-extension-for-zowe
v2-doc-branch*
0 0

https://github.com/zowe/zowe-cli-sample-scripts



README.md

Zowe CLI: Sample Scripts

This repository contains some sample scripts that utilize various components of the Zowe CLI organized by components and use cases.

Components

Here are some of the components that can be demoed using the scipts in this repository.

Core CLI

1. JENKINS: Submit a job and wait for it to complete

Use Cases

The `use_cases` directory has self-contained examples of various common use cases implemented with Zowe CLI.

- SonarQube Data Set Analysis
- Continuous Integration Pipeline
- Profile Automation

https://github.com/zowe/zowe-cli-sample-scripts/blob/master/Jenkins/Simple%20Pipeline/demo_content.sh

```
#                                                                              #
# SPDX-License-Identifier: EPL-2.0                                             #
#                                                                              #
# Copyright Contributors to the Zowe Project.                                  #
#


#test

#submit our job
jobid=$(zowe zos-jobs submit data-set "solsu01.mimpds.cntl(cblrun)" --rff jobid --rft string)

echo "Submitted our job, JOB ID is $jobid"

#wait for it to go to output
status="UNKNOWN"
while [ "$status" != "OUTPUT" ]; do
    echo "Checking status of job $jobid"
    status=$(zowe zos-jobs view job-status-by-jobid "$jobid" --rff status --rft string)
    echo "Current status is $status"
    sleep 5s
done;

echo "Job completed in OUTPUT status. Final result of job: "
zowe zos-jobs view job-status-by-jobid "$jobid"
zowe zos-jobs list spool-files-by-jobid "$jobid"

zowe zos-jobs view sfbi "$jobid" 2
zowe zos-jobs view sfbi "$jobid" 103
```

z/OS service can be

z/OSMF REST APIs or

FTP or

IBM Remote System Explorer

https://medium.com/zowe/z-os-ftp-plug-in-for-zowe-cli-af5630627768

z/OS FTP Plug-in for Zowe CLI

Na Tian Follow
Apr 9 · 12 min read

Zowe and Zowe CLI

`{Core}` The Open Mainframe Project's Zowe is an open source project for the IBM Z platform. It provides new user interfaces for users to interact with z/OS. It also provides a set of APIs on which users can easily build their applications on z/OS. Zowe's modern interface allows you to use z/OS to develop and extend your applications in a way similar to what you experience on a cloud platform today. It not only lowered the learning curve of IBM mainframe and made IBM z/OS easy to work with, but also is the product of IBM mainframe embracing open source and entering the cloud era.

Zowe CLI is an important part of Zowe. It is a command-line interface that you can use on any platform (Windows, MacOS, Linux). It is easy to integrate with common development build tools such as integrated

First, you can list dataset with"list data-set" command:

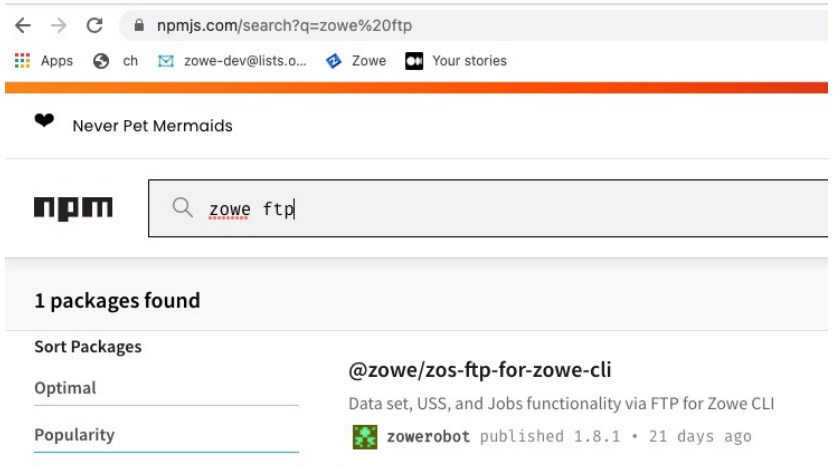
```
$ zowe zos-ftp list data-set "SYS1.**.*EXEC"
SYS1.SAXREXEC
SYS1.SBPXEXEC
```

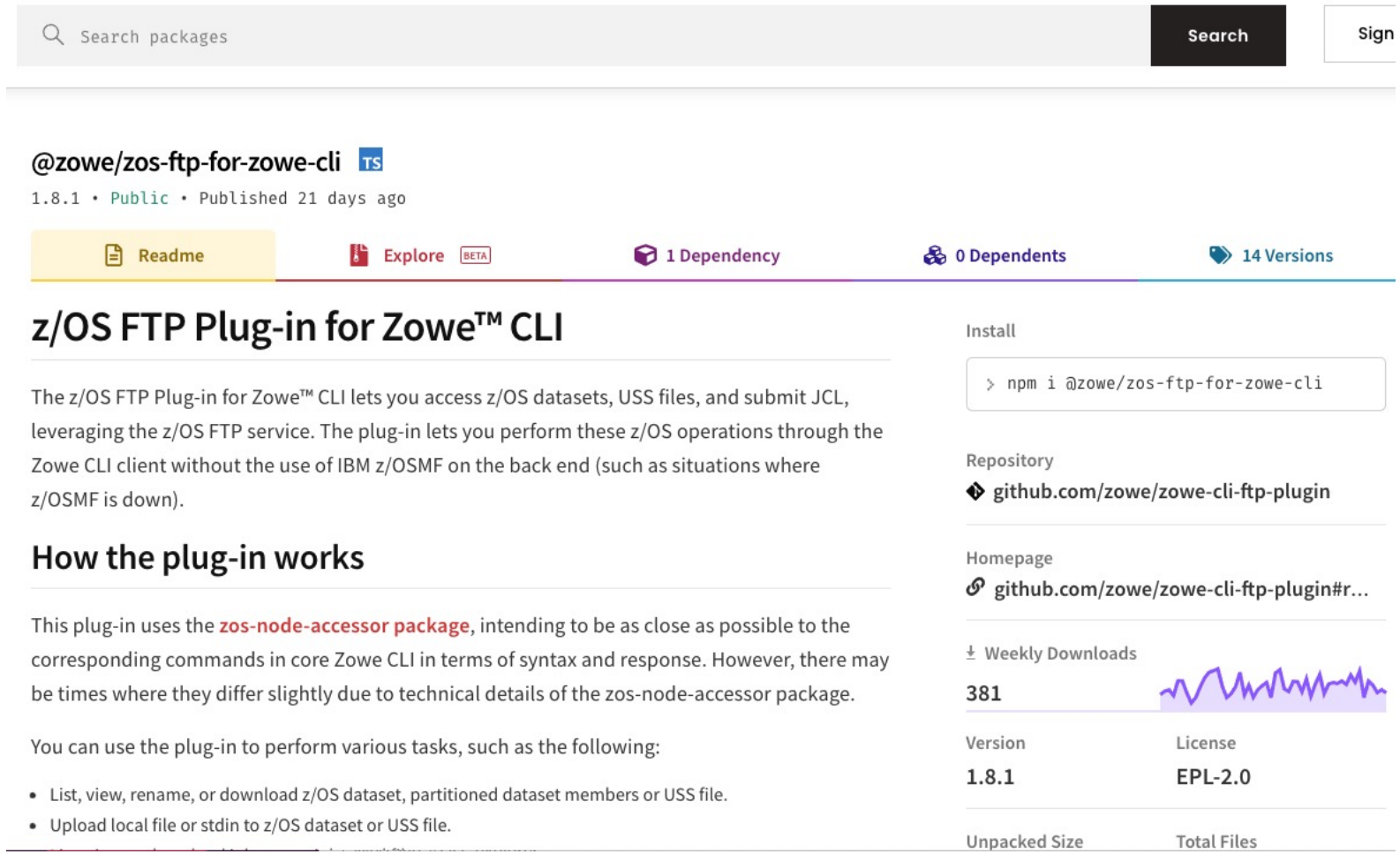
Then, you can view the dataset contents with "view data-set" command, as you do from ISPF. Reminder: Only text data is supported to view.

```
$ zowe zos-ftp view data-set "TNZSYS.ZFTP.TEST(HELLO)"
//HELLO    JOB ,NOTIFY=&SYSUID,CLASS=A,MSGCLASS=H,MSGLEVEL=1
//STEP0001 EXEC PGM=IEBGENER
//SYSIN    DD DUMMY
//SYSPRINT DD SYSOUT=*
//SYSUT1   DD *
  Hello World
/*
//SYSUT2   DD SYSOUT=*
```

You can also download the text dataset to the local machine with "download data-set" command:

```
$ zowe zos-ftp download data-set "TNZSYS.ZFTP.TEST(HELLO)"
Data set downloaded successfully.
Destination: tnzsys/zftp/test/hello
```


npmjs.com/search?q=zowe%20ftp
Apps
ch
zowe-dev@lists.o...
Zowe
Your stories
Never Pet Mermaids
npm
zowe ftp
1 packages found
Sort Packages
Optimal
Popularity
@zowe/zos-ftp-for-zowe-cli
Data set, USS, and Jobs functionality via FTP for Zowe CLI
zowerobot published 1.8.1 • 21 days ago


Search packages
Search
Sign
@zowe/zos-ftp-for-zowe-cli
TS
1.8.1 • Public • Published 21 days ago
Readme
Explore BETA
1 Dependency
0 Dependents
14 Versions
z/OS FTP Plug-in for Zowe™ CLI
The z/OS FTP Plug-in for Zowe™ CLI lets you access z/OS datasets, USS files, and submit JCL, leveraging the z/OS FTP service. The plug-in lets you perform these z/OS operations through the Zowe CLI client without the use of IBM z/OSMF on the back end (such as situations where z/OSMF is down).
How the plug-in works
This plug-in uses the zos-node-accessor package, intending to be as close as possible to the corresponding commands in core Zowe CLI in terms of syntax and response. However, there may be times where they differ slightly due to technical details of the zos-node-accessor package.
You can use the plug-in to perform various tasks, such as the following:
List, view, rename, or download z/OS dataset, partitioned dataset members or USS file.
Upload local file or stdin to z/OS dataset or USS file.
Install
npm i @zowe/zos-ftp-for-zowe-cli
Repository
github.com/zowe/zowe-cli-ftp-plugin
Homepage
github.com/zowe/zowe-cli-ftp-plugin#r...
Weekly Downloads
381
Version
1.8.1
License
EPL-2.0
Unpacked Size
Total Files

@ibm/rse-api-for-zowe-cli

1.4.0 • Public • Published 5 days ago

Readme | Explore BETA | 7 Dependencies | 0 Dependents | 5 Versions

IBM RSE API Plug-in for Zowe CLI

IBM RSE API Plug-in for Zowe CLI extends Zowe CLI to let you interact with z/OS resources. The RSE plug-in interacts with z/OS by using IBM Remote System Explorer API (RSE API) instead of using z/OSMF. This solution is a great alternative if you have already used the Remote System Explorer with other IBM offerings such as IBM Developer for z/OS or IBM Explorer for z/OS. It is also a good option if you have not configured z/OSMF on your z/OS.

The RSE API support provided with the RSE API Zowe CLI plugin and IBM Z Open Editor not only allows you to execute Zowe CLI command line operations, but to also use the protocol with the Zowe Explorer VS Code extension to graphically navigate and access file and job resources. You can also mix and match z/OSMF and RSE CLI API profiles and use CLI commands and Zowe Explorer views with the different profiles at the same time. For example, you can access one LPAR with z/OSMF and another with RSE API from within the same VS Code workspace using Zowe Explorer and IBM Z Open Editor. Z Open Editor capabilities such as COBOL Copybook or PL/I Include file resolving can be utilized with either of the two protocols as well.

Install

```
> npm i @ibm/rse-api-for-zowe-cli
```

Weekly Downloads

31

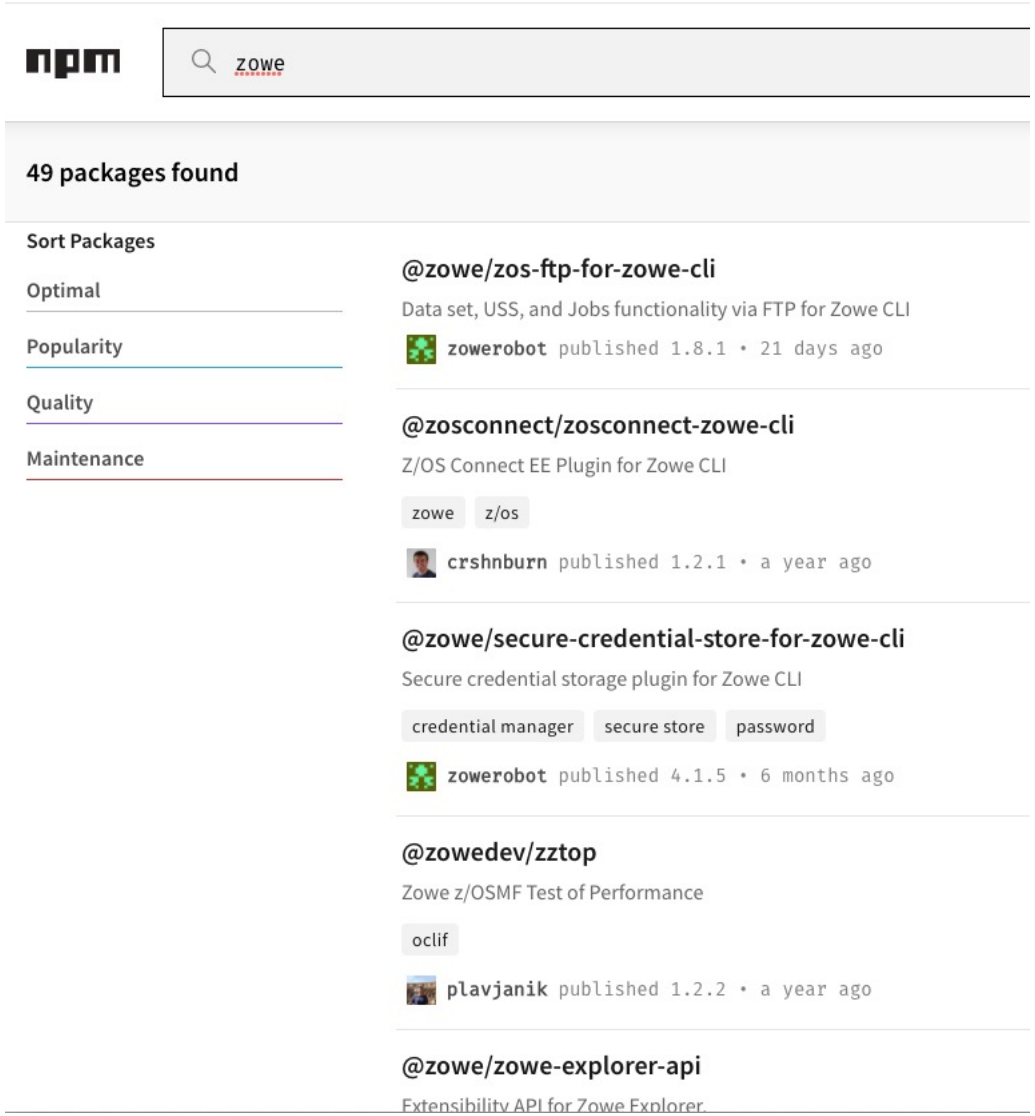
Version	License
1.4.0	SEE LICENSE IN L...

Unpacked Size	Total Files
1.1 MB	695

Last publish

5 days ago

Collaborators


npm
zowe
49 packages found
Sort Packages
Optimal
Popularity
Quality
Maintenance
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Data set, USS, and Jobs functionality via FTP for Zowe CLI
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Z/OS Connect EE Plugin for Zowe CLI
zowe z/os
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Secure credential storage plugin for Zowe CLI
credential manager secure store password
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Zowe z/OSMF Test of Performance
oclif
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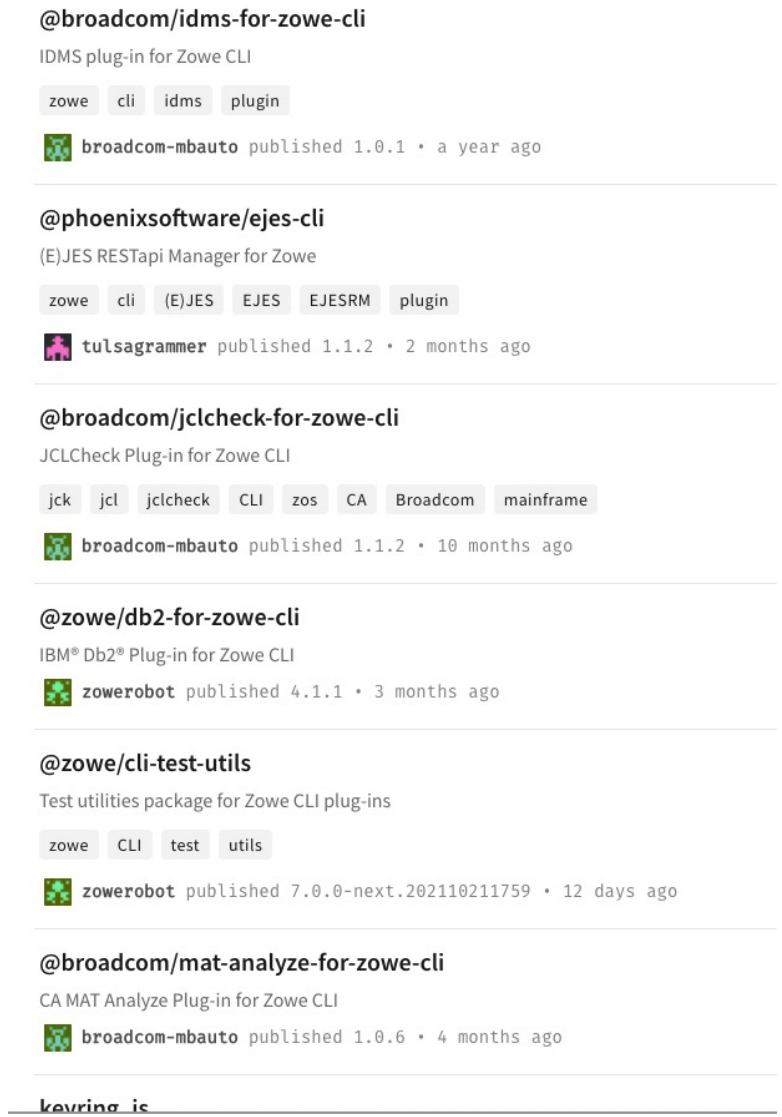
@zowe/zowe-explorer-api
Extensibility API for Zowe Explorer


@broadcom/idms-for-zowe-cli
IDMS plug-in for Zowe CLI
zowe cli idms plugin
broadcom-mbauto published 1.0.1 • a year ago
@phoenixsoftware/ejes-cli
(E)JES RESTapi Manager for Zowe
zowe cli (E)JES EJES EJESRM plugin
tulsagrammer published 1.1.2 • 2 months ago
@broadcom/jclcheck-for-zowe-cli
JCLCheck Plug-in for Zowe CLI
jck jcl jclcheck CLI zos CA Broadcom mainframe
broadcom-mbauto published 1.1.2 • 10 months ago
@zowe/db2-for-zowe-cli
IBM® Db2® Plug-in for Zowe CLI
zowerobot published 4.1.1 • 3 months ago
@zowe/cli-test-utils
Test utilities package for Zowe CLI plug-ins
zowe CLI test utils
zowerobot published 7.0.0-next.202110211759 • 12 days ago
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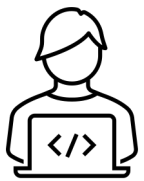
CA MAT Analyze Plug-in for Zowe CLI
broadcom-mbauto published 1.0.6 • 4 months ago
keyring_is

https://www.zowe.org/extend.html

Zowe Conformant - CLI ZOWE V1 (28)

PHOENIX Software International (E)JES	BROADCOM CA Endevor®	BROADCOM CA Endevor® Bridge For Git	BROADCOM CA File Master™ Plus	BROADCOM CA IDMS	BROADCOM CA JCLCheck™ Workload Automation	BROADCOM CA MAT Analyze
Phoenix Software International	Broadcom	Broadcom	Broadcom	Broadcom	Broadcom	Broadcom
BROADCOM CA MAT Detect	BROADCOM CA OPS/MVS®	BROADCOM CA Spool™	BROADCOM CA SYSVIEW® Performance Management	BROADCOM CA View®	BROADCOM CA Workload Automation CA 7®	BROADCOM CA z/OS Extended Files
Broadcom	Broadcom	Broadcom	Broadcom	Broadcom	Broadcom	Broadcom
BROADCOM CA z/OS Extended Jobs	MICRO FOCUS ChangeMan® ZMF®	BROADCOM COBOL Language Support	IBM IBM RSE API Plug-in	IBM IBM® Z System Automation	OPEN MAINFRAME PROJECT Zowe IBM® CICS® Plug-in for Zowe CLI	OPEN MAINFRAME PROJECT Zowe IBM® Db2® Database Plug-in for Zowe CLI
Broadcom	Micro Focus	Broadcom	IBM	IBM	Open Mainframe Project	Open Mainframe Project
OPEN MAINFRAME PROJECT Zowe IBM® IMS™ Plug-in for Zowe CLI	OPEN MAINFRAME PROJECT Zowe IBM MQ for z/OS Plug-in for Zowe CLI	IBM IBM® Z Workload Scheduler	IBM z/OS Connect EE	OPEN MAINFRAME PROJECT Zowe z/OS FTP Plug-in for Zowe CLI	IBM Zowe CLI CICS Deploy	OPEN MAINFRAME PROJECT Zowe Secure Credential Store Plug-in
Open Mainframe Project	Open Mainframe Project	IBM	IBM	Open Mainframe Project	IBM	Open Mainframe Project

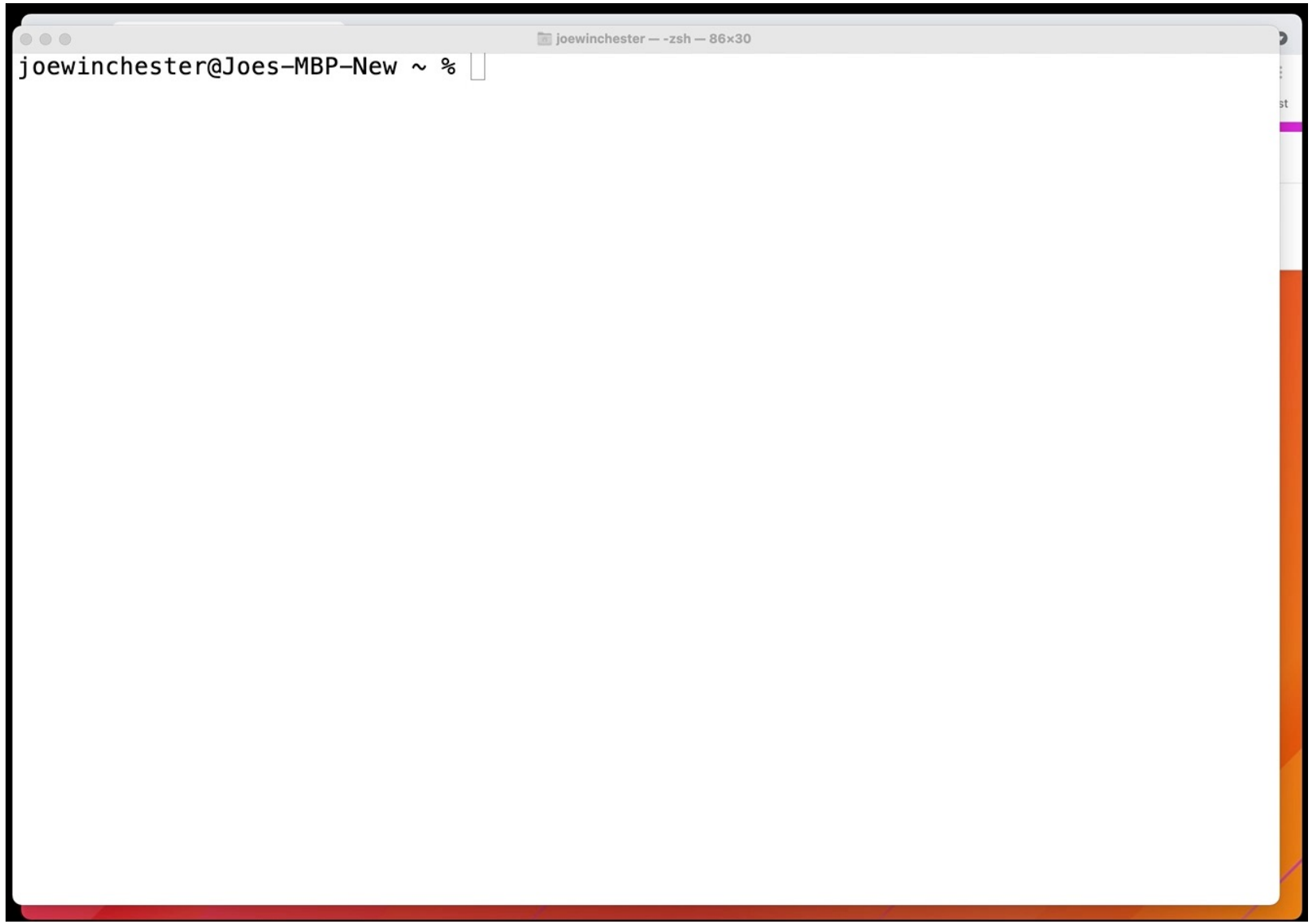


CLI

CICS

z/OS

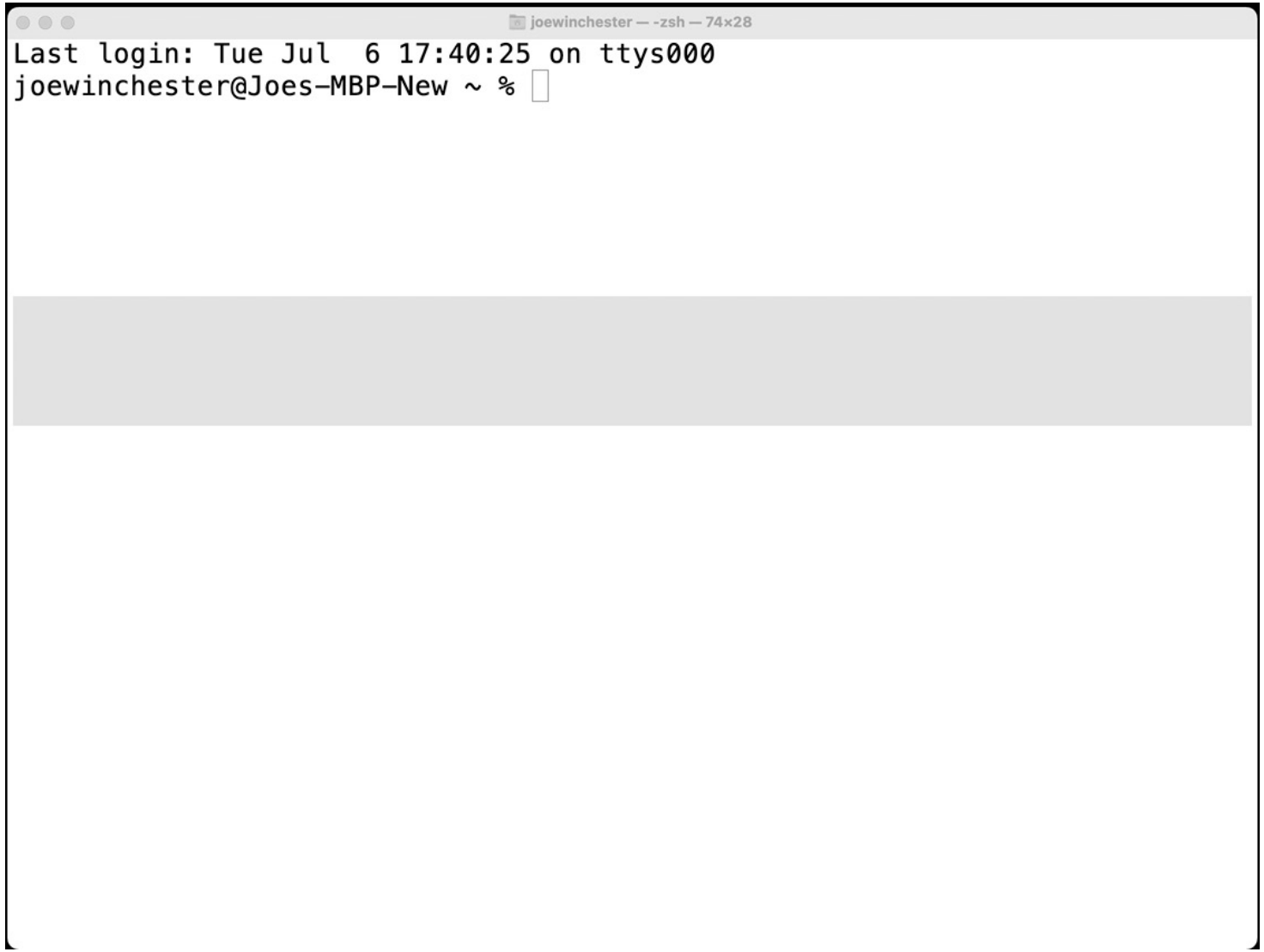
Installing the Zowe CICS Command Line Interface Plugin


joewinchester — -zsh — 86×30
joewinchester@Joes-MBP-New ~ %

Using the Zowe CICS Command Line Interface

Examples

- Get program resources from the region named MYREGION:
  - `zowe cics get resource CICSProgram --region-name MYREGION` Copy
- Get local transaction resources from the region named MYREGION:
  - `zowe cics get resource CICSLocalTransaction --region-name MYREGION` Copy
- Get local file resources from the region named MYREGION:
  - `zowe cics get resource CICSLocalFile --region-name MYREGION` Copy
- Get program definition resources from the CSD group named GRP1 and the region named MYREGION:
  - `zowe cics get resource CICSDefinitionProgram --region-name MYREGION --parameter "CSDGROUP(GRP1)"` Copy
- Get transaction definition resources from the CSD group named GRP1 and the region named MYREGION:
  - `zowe cics get resource CICSDefinitionTransaction --region-name MYREGION --parameter "CSDGROUP(GRP1)"` Copy
- Get URIMap definition resources from the CSD group named GRP1 and the region named MYREGION:
  - `zowe cics get resource CICSDefinitionURIMap --region-name MYREGION --parameter "CSDGROUP(GRP1)"` Copy
- Get program resources that start with the name PRG from the region named MYREGION:
  - `zowe cics get resource CICSProgram --region-name MYREGION --criteria "PROGRAM=PRG*"` Copy
- Get a local transaction resource named TRAN from the region named MYREGION:
  - `zowe cics get resource CICSLocalTransaction --region-name MYREGION --criteria "TRANID=TRAN"` Copy
- Get program resources that start with the name MYPRG from the region named MYREGION and display various fields as a table:


joewinchester — -zsh — 74×28
Last login: Tue Jul 6 17:40:25 on ttys000
joewinchester@Joes-MBP-New ~ %

Filtering and Formatting

Response Format Options

- `--response-format-filter` | `--rff` *(array)*
  - Filter (include) fields in the response. Accepts an array of field/property names to include in the output response. You can filter JSON objects properties OR table columns/fields. In addition, you can use this option in conjunction with '--response-format-type' to reduce the output of a command to a single field/property or a list of a single field/property.
- `--response-format-type` | `--rft` *(string)*
  - The command response output format type. Must be one of the following:

    table: Formats output data as a table. Use this option when the output data is an array of homogeneous JSON objects. Each property of the object will become a column in the table.

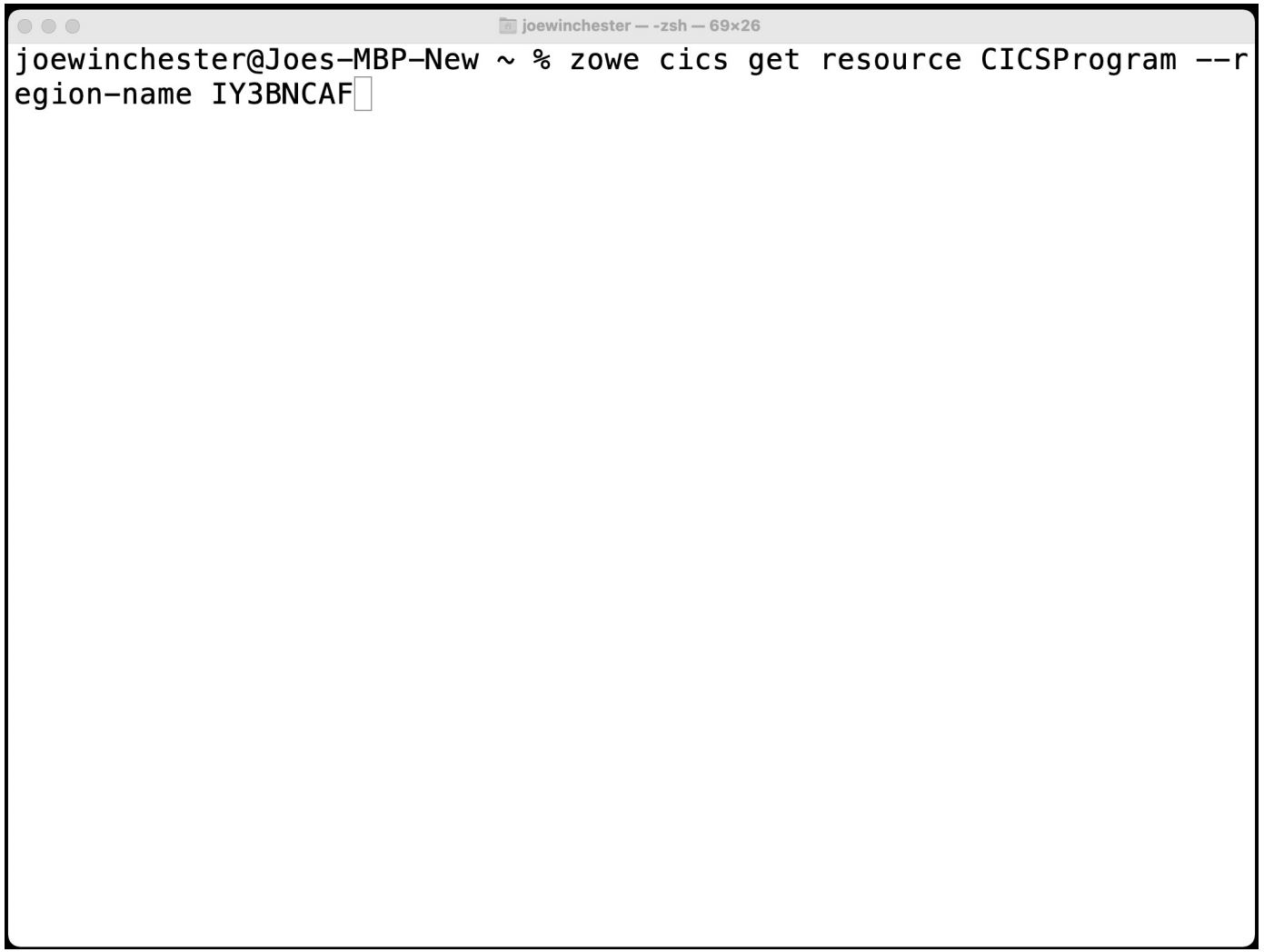
    list: Formats output data as a list of strings. Can be used on any data type (JSON objects/arrays) are stringified and a new line is added after each entry in an array.

    object: Formats output data as a list of prettified objects (or single object). Can be used in place of "table" to change from tabular output to a list of prettified objects.

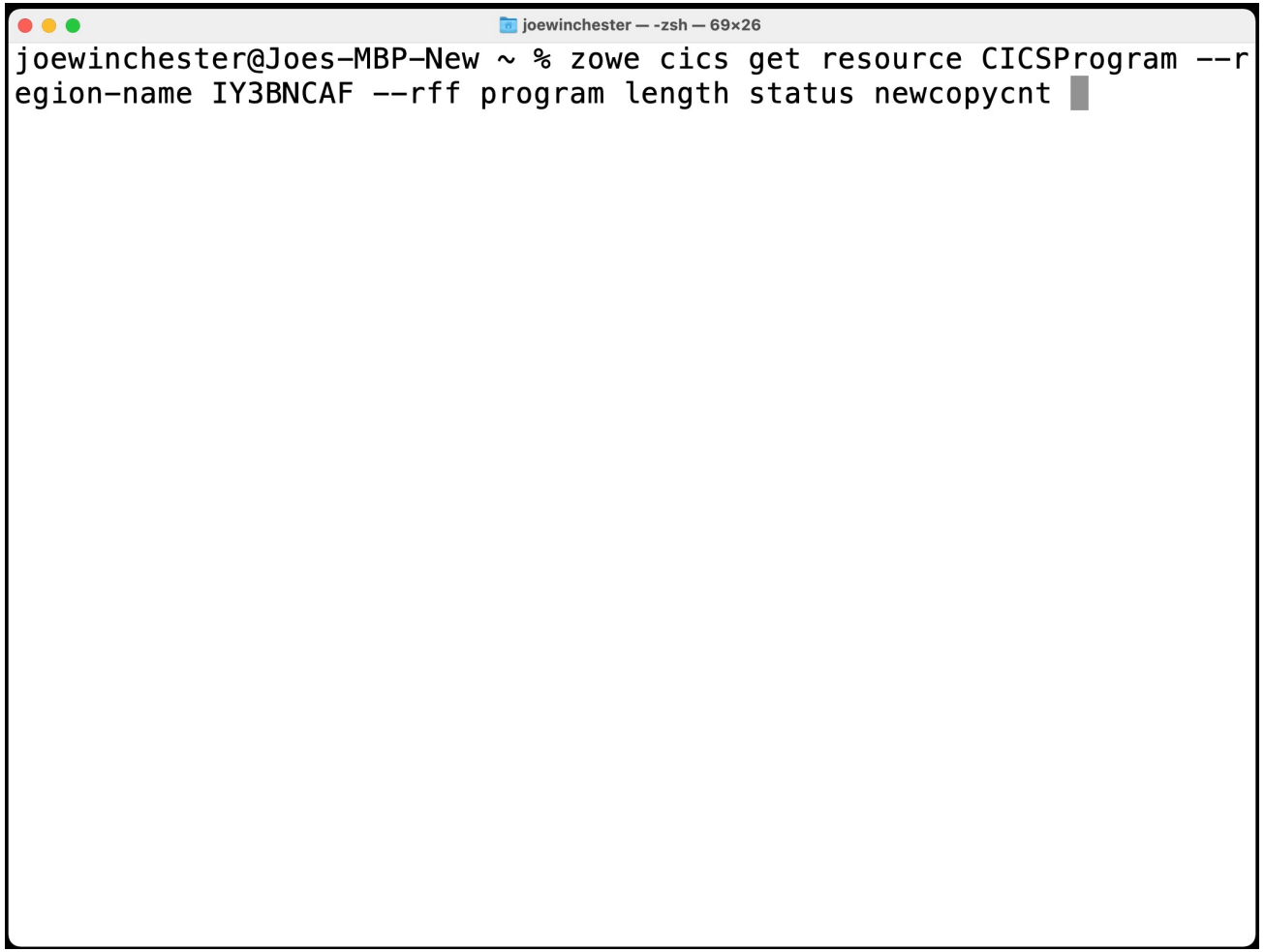
    string: Formats output data as a string. JSON objects/arrays are stringified.

    Allowed values: table, list, object, string
- `--response-format-header` | `--rfh` *(boolean)*
  - If "--response-format-type table" is specified, include the column headers in the output.

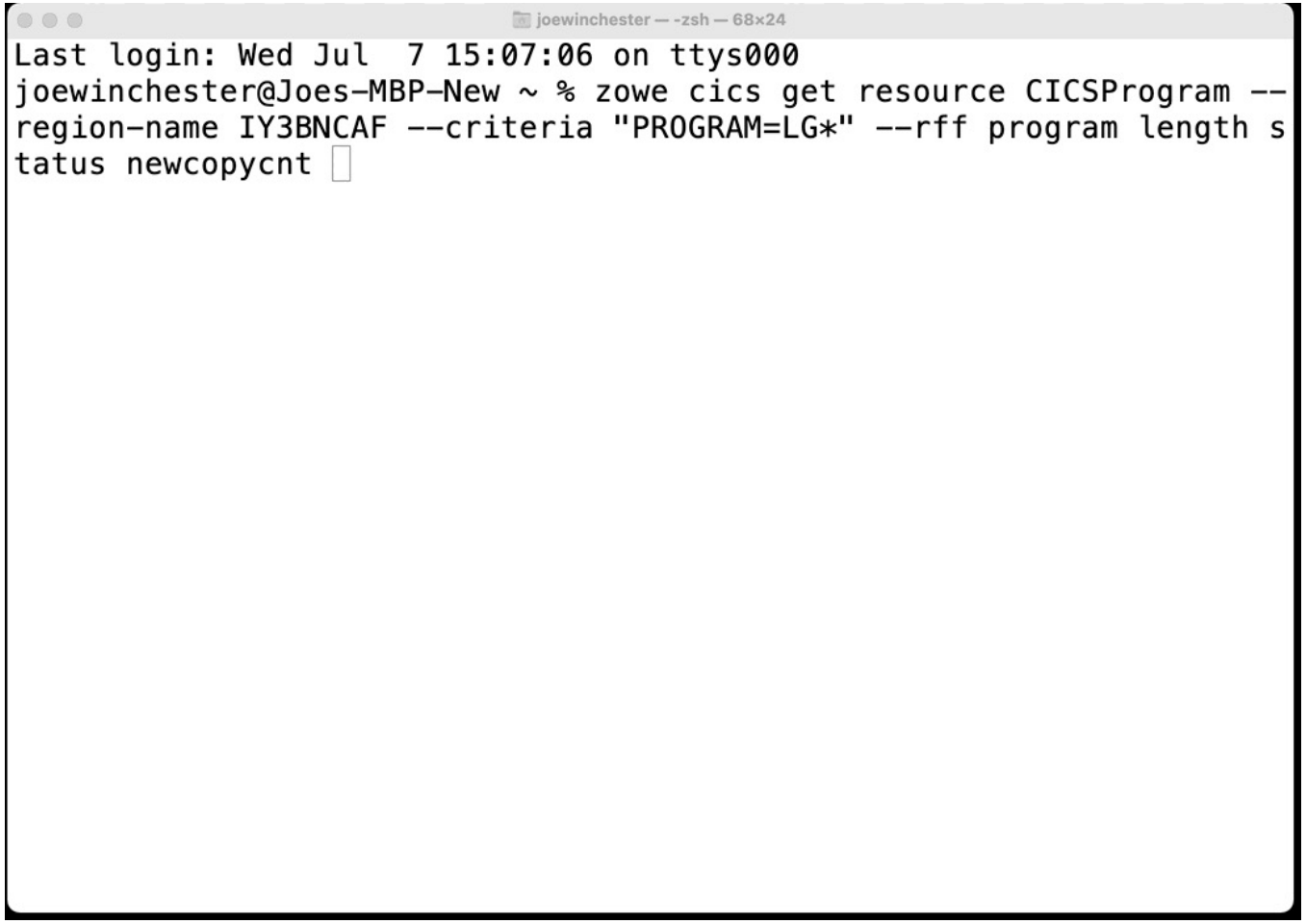
response-format-filter (--rff) field1 field2



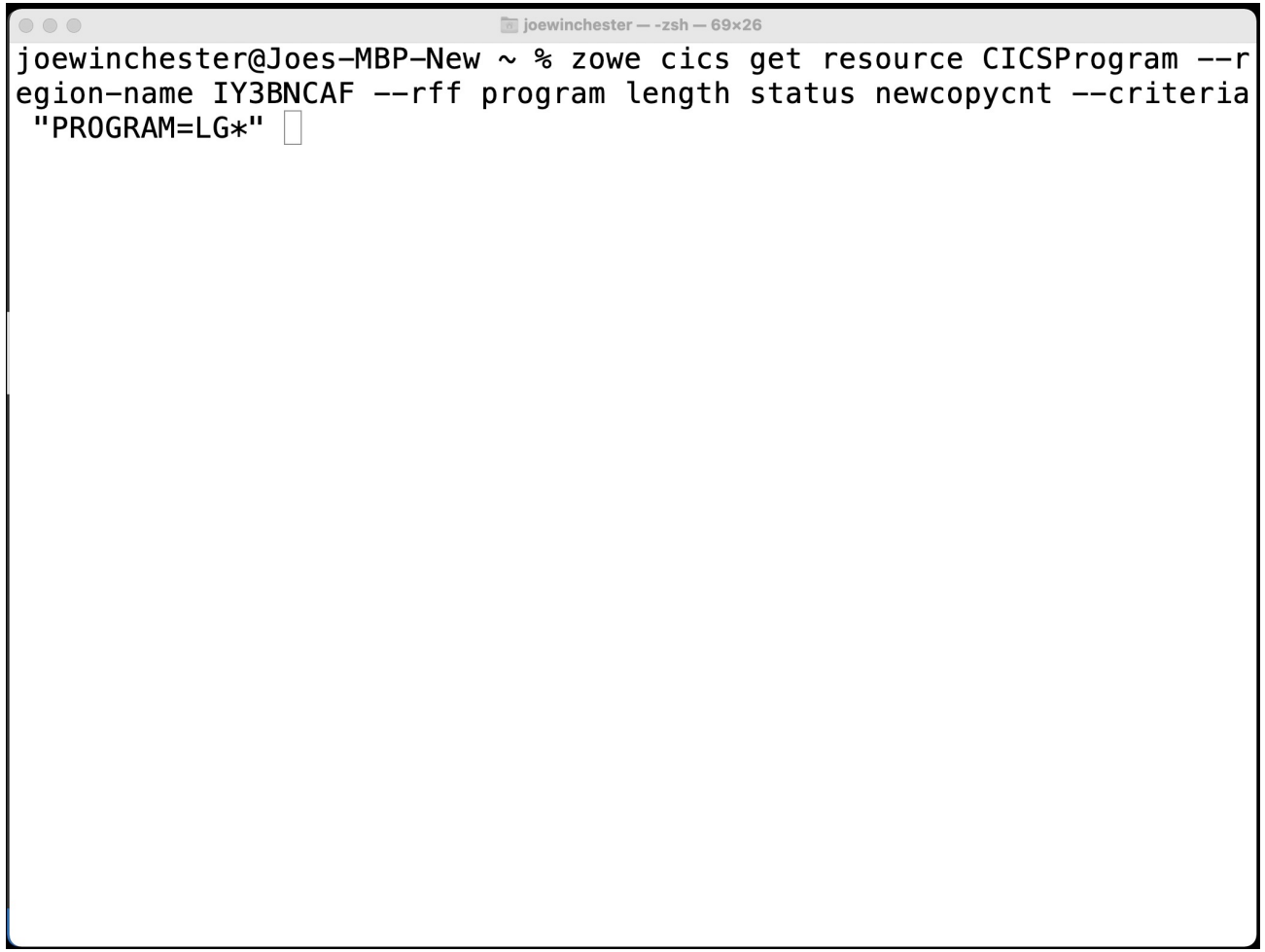
--criteria “<ATTRIBUTE_NAME>=<VALUE>



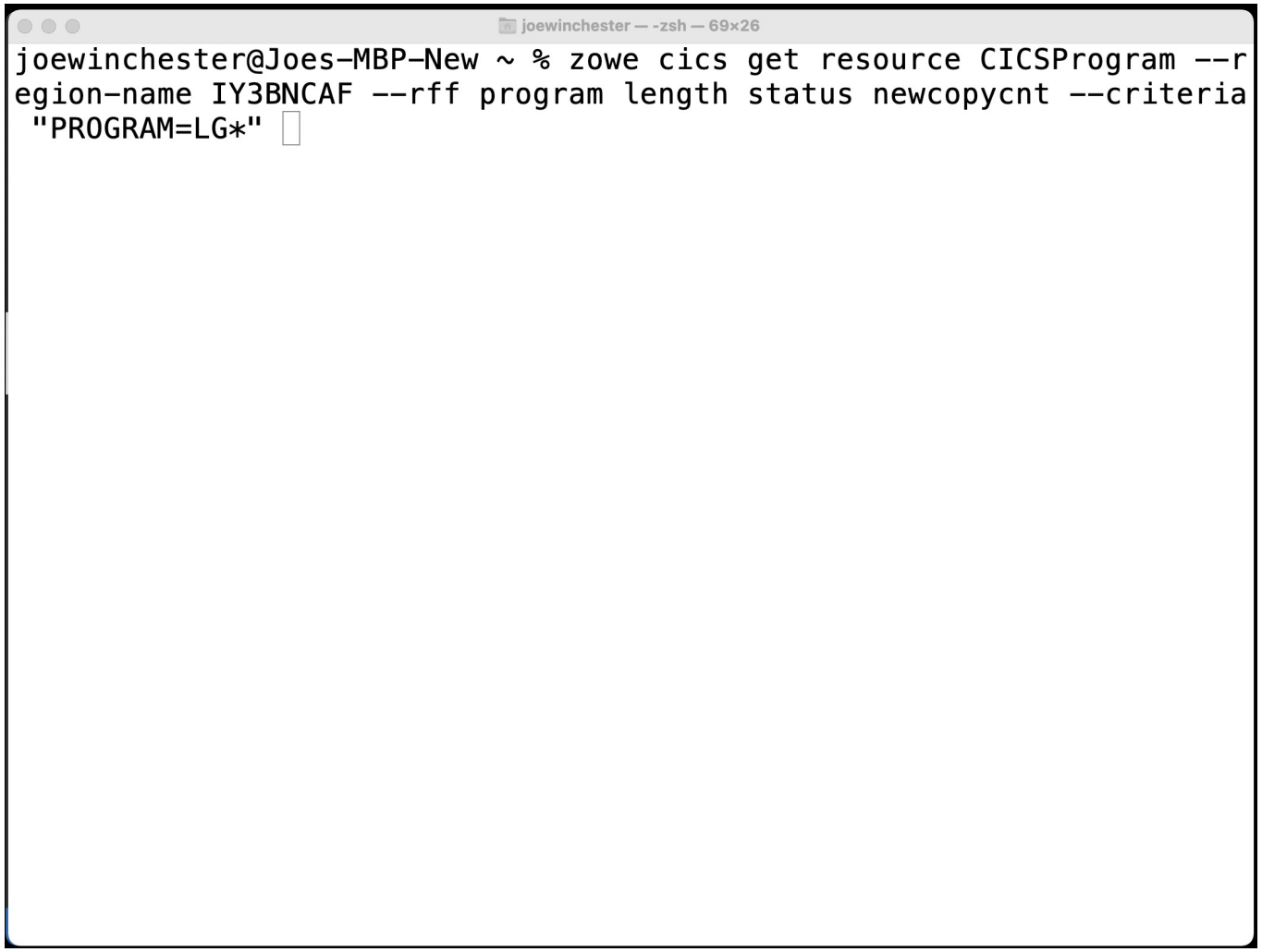
response-format-type (--rft) object|string|table



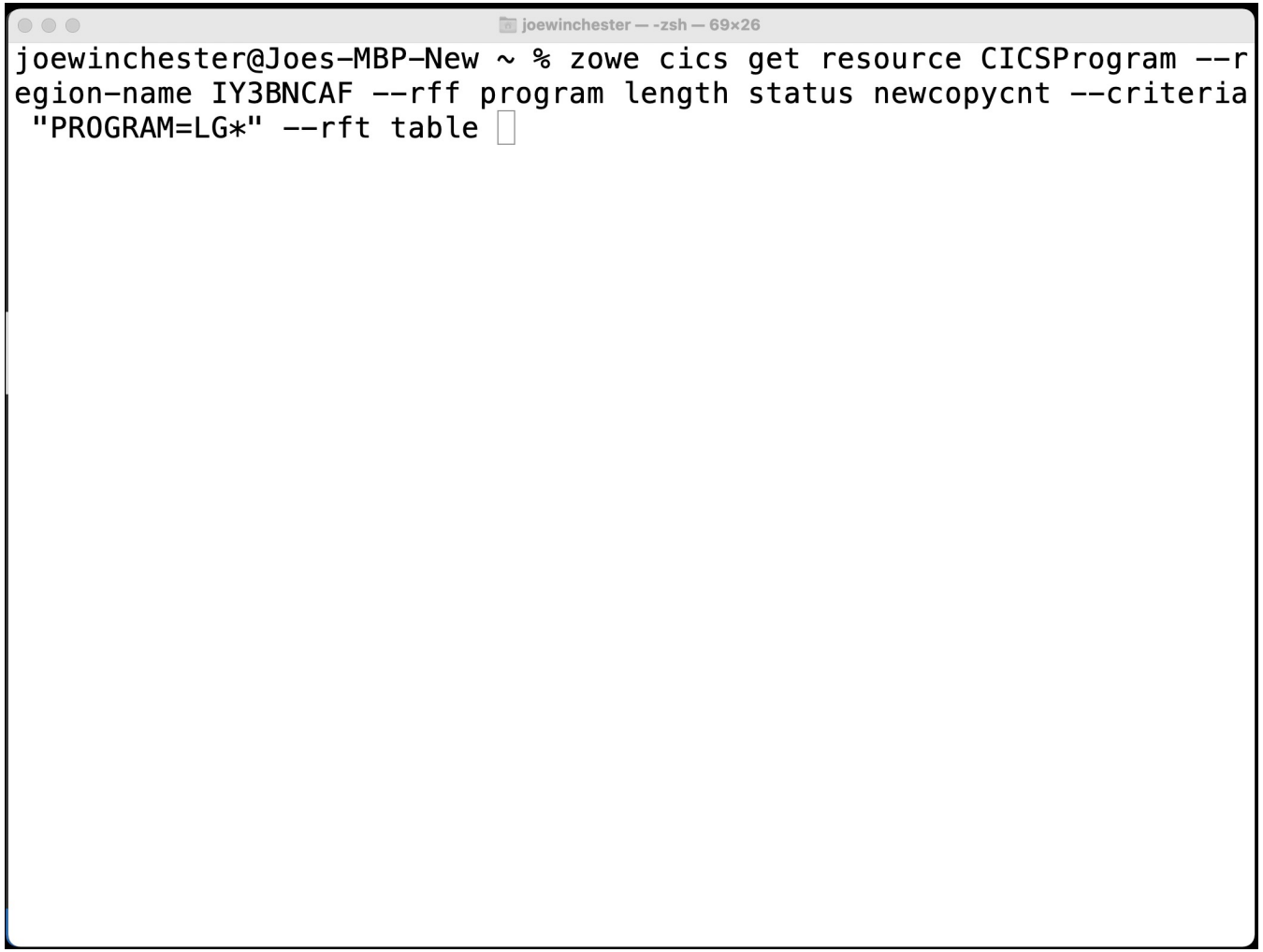
response-format-type (--rft) object|string|table



response-format-type (--rft) object|string|table



response-format-header (--rfh)



--criteria “ATTRIBUTE =|>|< AND|OR NOT

Not just for CICSProgram

https://www.ibm.com/docs/en/cics-ts/5.3?topic=interface-cics-management-client-resource-names

CICS management client interface resource names

The CICS® management client interface (CMCI) uses external resource names that map to CICSPlex® SM and CICS resources.

The following tables list the CMCI external resource names and their associated CICSPlex SM resource names. The resources are divided into CICS operational resources, CICS definitional resources, CICSPlex SM definitional resources, and CICSPlex SM nondefinitional resources.

See CICSPlex SM resource tables for information about CICSPlex SM resources including the CMCI methods that are valid for each resource.

CICS operational resources

Table 1. Resource names of CICS operational resources

External resource name	CICSPlex SM resource name	Description
CICSAllTaskSubpools	TSKSPOLS	CICS task storage subpools
CICSAtomService	ATOMSERV	CICS Atom service, feed, collection, or category document
CICSAutoInstallModel	AIMODEL	CICS autoinstall terminal model
CICSBridgeFacility	BRFACIL	Virtual terminal (bridge facility) used by the 3270 bridge mechanism
CICSBundle	BUNDLE	CICS bundle
CICSBundlePart	BUNDPART	CICS bundle part
CICSCaptureSpecification	EVCSPEC	CICS event capture specifications
CICSCaptureSpecificationDataPredicate	EVCSDATA	CICS event capture specification data predicates

Zowe CICS CLI not just for reading resources

- cics
  - add-to-list | atl
    - csdGroup | csdg
  - define | def
    - program | prog
    - transaction | tran
    - urimap-client | uc
    - urimap-pipeline | up
    - urimap-server | us
    - webservice | web
  - delete | del
    - program | prog
    - transaction | tran
    - urimap
    - webservice | web
  - disable
    - urimap
  - discard | dis
    - program | prog
    - transaction | tran
    - urimap
  - enable | en
    - urimap
  - get
  - install | ins
    - program | prog
    - transaction | tran
    - urimap
  - refresh | ref
    - program | prog
  - remove-from-list | rfl
    - csdGroup | csdg

Examples

- Enable a urimap named URIMAPA from the region named MYREGION:
  - `zowe cics enable urimap URIMAPA --region-name MYREGION` Copy

Examples

- Discard a program named PGM123 from the region named MYREGION:
  - `zowe cics discard program PGM123 --region-name MYREGION` Copy

Examples

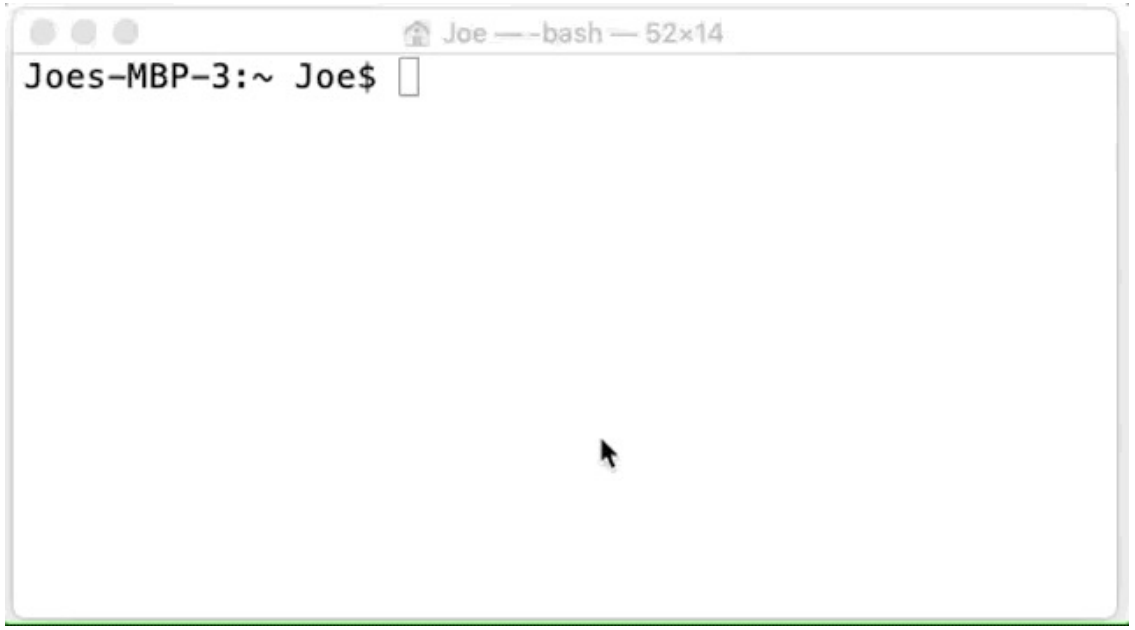
- Install a transaction named TRN1 to the region named MYREGION in the CSD group MYGRP:
  - `zowe cics install transaction TRN1 MYGRP --region-name MYREGION` Copy

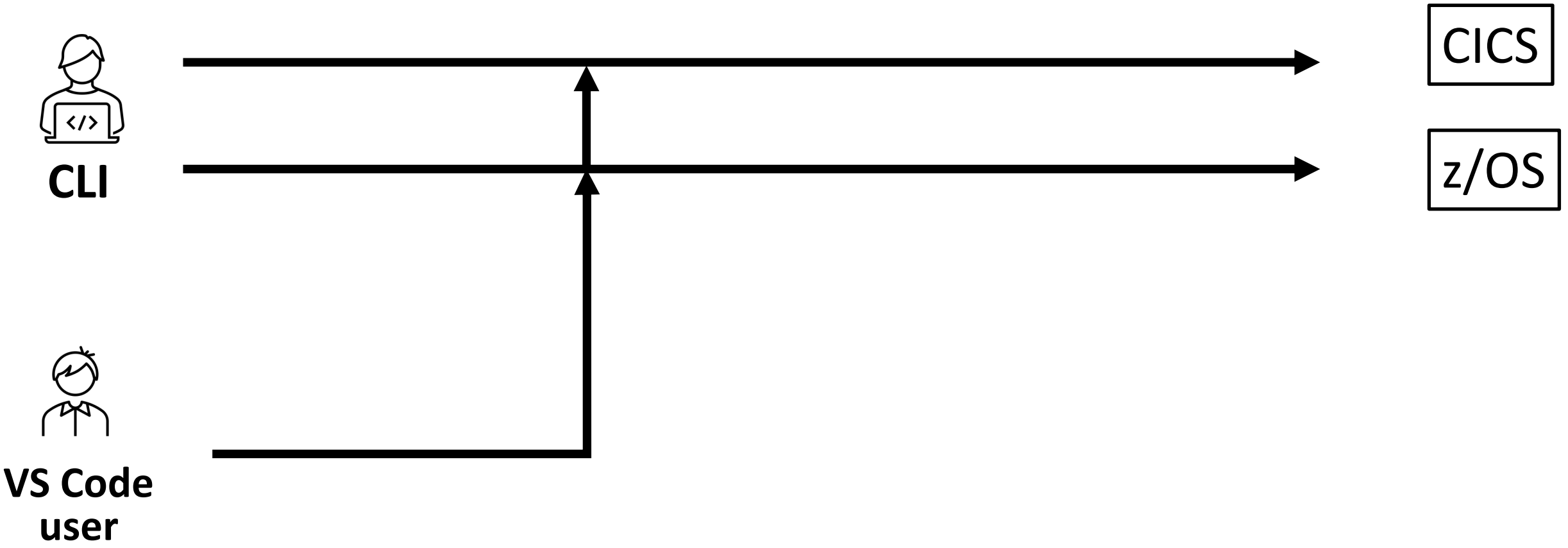
Examples

- Refresh a program named PGM123 from the region named MYREGION:
  - `zowe cics refresh program PGM123 --region-name MYREGION` Copy

https://medium.com/zowe/zowe-ci-and-tso-commands-14e5445fca1e

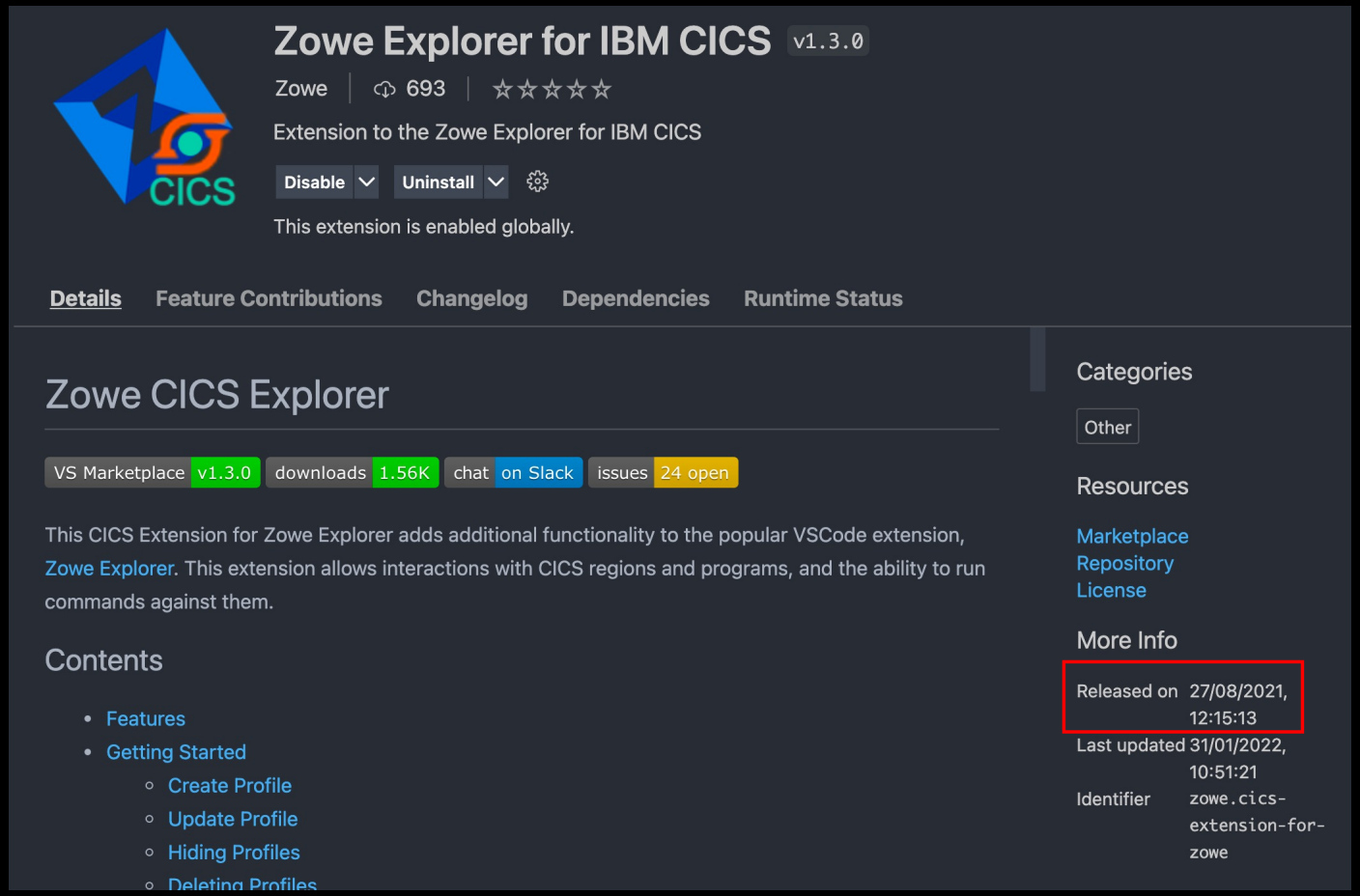
https://medium.com/zowe/configuring-zowe-db2-command-line-interface-on-macos-f5dba93b37e7




CICS
z/OS
CLI
VS Code user

Zowe Explorer for IBM CICS

Jeffin Siby



693

Unique installs

(Mar 7th 2022)

GitHub: https://github.com/zowe/vscode-extension-for-cics

Visual Studio Code marketplace: https://marketplace.visualstudio.com/items?itemName=Zowe.cics-extension-for-zowe

What problem does it solve?

ZE Only

- ✓ Open Dataset
- ✓ Edit member
- ✓ Submit Job
- ✗ New Copy (need to exit VSCode and switch to terminal)

ZE with ZE for IBM CICS

- ✓ Open Dataset
- ✓ Edit member
- ✓ Submit Job
- ✓ New Copy + other CICS commands

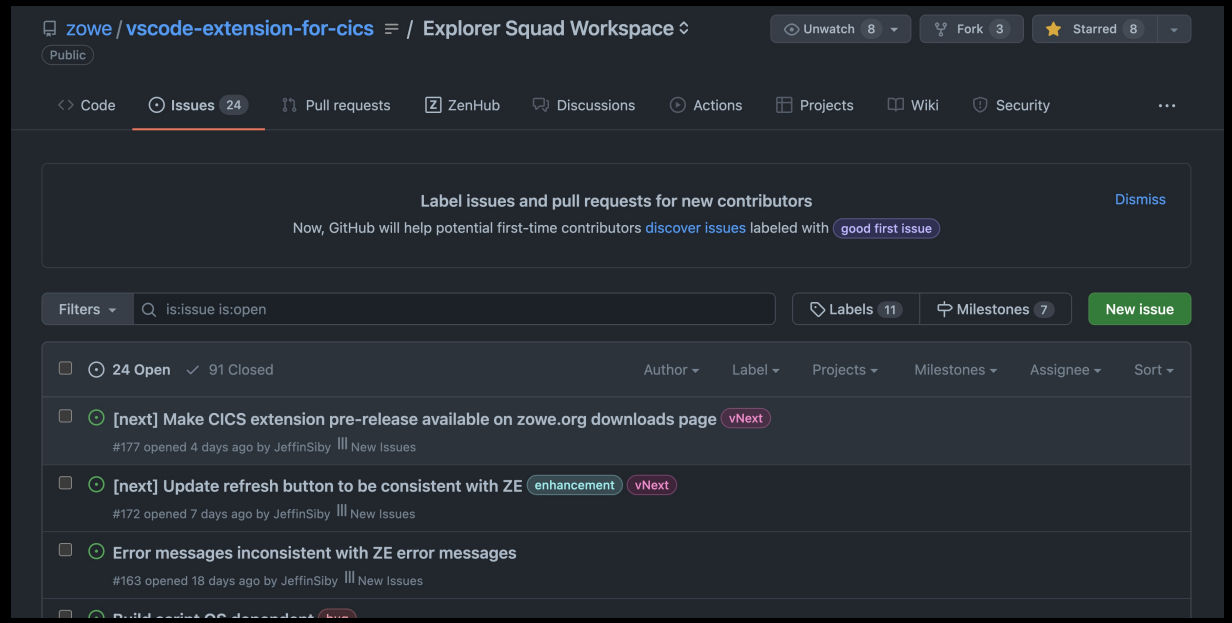
Allows CICS COBOL developers to perform tasks on Visual Studio Code from start to finish

What's next?

- Zowe v2 development *[ongoing]*
- Integration into Open Mainframe Project's COBOL Programming course *[ongoing]*
- More resources e.g. Web Services
- Java development

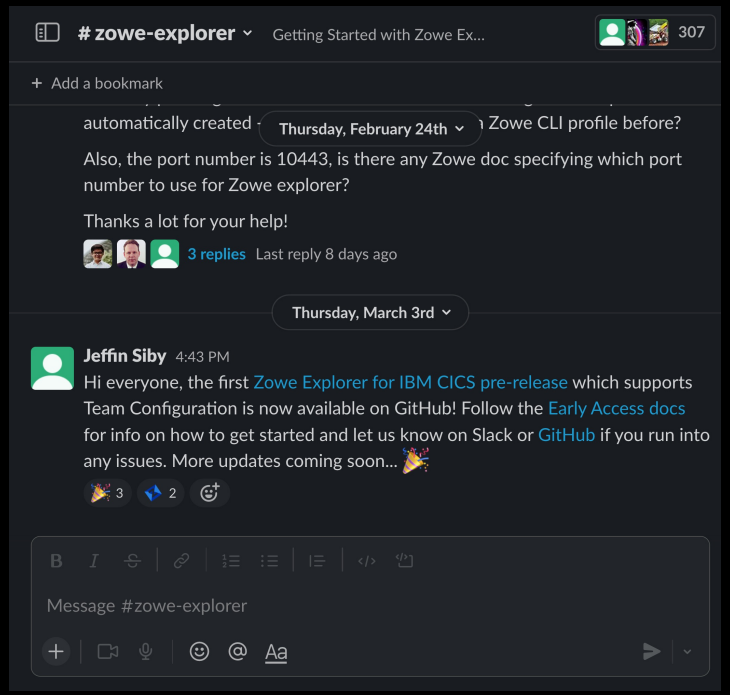
Stay in touch

zowe/vscode-extension-for-cics issues on GitHub



https://github.com/zowe/vscode-extension-for-cics/issues

#zowe-explorer slack channel on **OMP workspace**



https://openmainframeproject.slack.com/archives/CUVE37Z5F