

Zowe V2: What is it, Why You Should Care, and New Directions



Agenda



- **Two recent data points (well top 5) on Zowe adoption**
- **Zowe Deliverables since last TDT in October 2021**
 - Pointing out some highlights
- **Zowe V2 (2.0) Highlights/Considerations**
- **New incubator previewed previously: Zowe Chat**
- **Possible futures**
- **Q&A**



David McNierney

Feb 22 · 4 min read · [Listen](#)

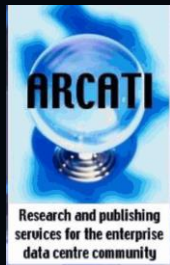
Top 5 Reasons to be Excited about Zowe

The [Open Mainframe Project](#)'s [Zowe initiative](#) was born from an ambitious goal: make the mainframe a seamless, integrated part of the modern IT landscape — employing the same practices, tools and skillsets — without compromising its core attributes of stability, security and resiliency. Achieving this vision would address the growing talent crunch while helping enterprises modernize their mission-critical applications for today's hybrid cloud world. It was exciting from the outset.



DevOps is just one of the possible use cases

Top Five Reasons Link



"Zowe was announced in 2018 as a way for non-mainframers to securely manage, control, script, and develop on the mainframe like any other cloud platform. **19 percent of sites said that they are already using this open-source technology (up from 10 percent last year). With a further 50 percent of sites having plans to make use of it in the coming year - (a big increase from 10 percent last year).**"

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<https://techchannel.com/Trends/03/2022/2022-arcati-mainframe-yearbook>

100 individuals between the 20 October 2021 and the 26 November 2021. Responses from large mainframe vendors and multiple entries from different people at the same site were excluded from the survey, as were largely incomplete responses.

2021 3Q V1 Deliverables Major Themes (More Detail in Backup)

Just a few highlights

Security

- ✓ Password Expiration Notice via API ML
- ✓ Many security improvements (x.509, Keyring, AT/TLS,)
- ✓ Passtickets Support for ZSS
- ✓ Prompting for Credentials by Zowe Explorer

Extending the Community

Getting Started

- ✓ Improved Out of the Box Experience using Zowe Team Configuration for Zowe CLI and Zowe Explorer Users
- ✓ Simplified Onboarding of New Services to the API ML via a Wizard in the Catalog
- ✓ Ask Zowe Chat Bot in Zowe Slack (@Ask Zowe)
- ✓ Improved User Documentation (Videos on install)



- ✓ Delivered Multiple Enhancements for Usability, Performance and New Functionality
- ✓ Completed onboarding of the Workflow Wizard
- ✓ Quarterly Update Webinar and Survey
- ✓ Zowe Sessions at SHARE, Code PaLOUsa, Open Mainframe Summit, IBM TDM
- ✓ 10 New Zowe Blogs

Conformance

- ✓ Launched New V1 Conformance Proposals!
 - Support Providers
 - Explorer for VS Code



HA/FT

- ✓ Orchestrated Container Support

Zowe V1 will shift to “Maintenance Mode”

Note: The Zowe open community is approaching the last “new function” release of Zowe V1

1.28 Planned :

- Code Freeze 2022/04/26
- RC Build 2022/04/27
- Testing 2022/04/27 - 2022/05/09
- GA 2022/05/09

- Will ship critical fixes on approximately quarterly basis
- Frequency of updates depends on severity of the problem

See bottom of <https://www.zowe.org/download.html> for more info

	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024	Q2 2024	Q3 2024	Q4 2024	Q1 2025	Q2 2025	Q3 2025	Q4 2025
Main	UNDER DEVELOPMENT																							
Zowe v1.x	ACTIVE									MAINTENANCE														
Zowe v2.x										ACTIVE								MAINTENANCE						
Zowe v3.x																		ACTIVE						

Zowe Versions, Technology & Conformance



Zowe V1

- Aligns with Zowe V1 LTS
- Covers Zowe 1.9 – current
- Conformance program and V1 badges will remain throughout Zowe V1 LTS maintenance



With new Version come new conformance criteria with higher value to consumers – “best practices” transition to “required” and new requirements. New best practices are preview to future required criteria

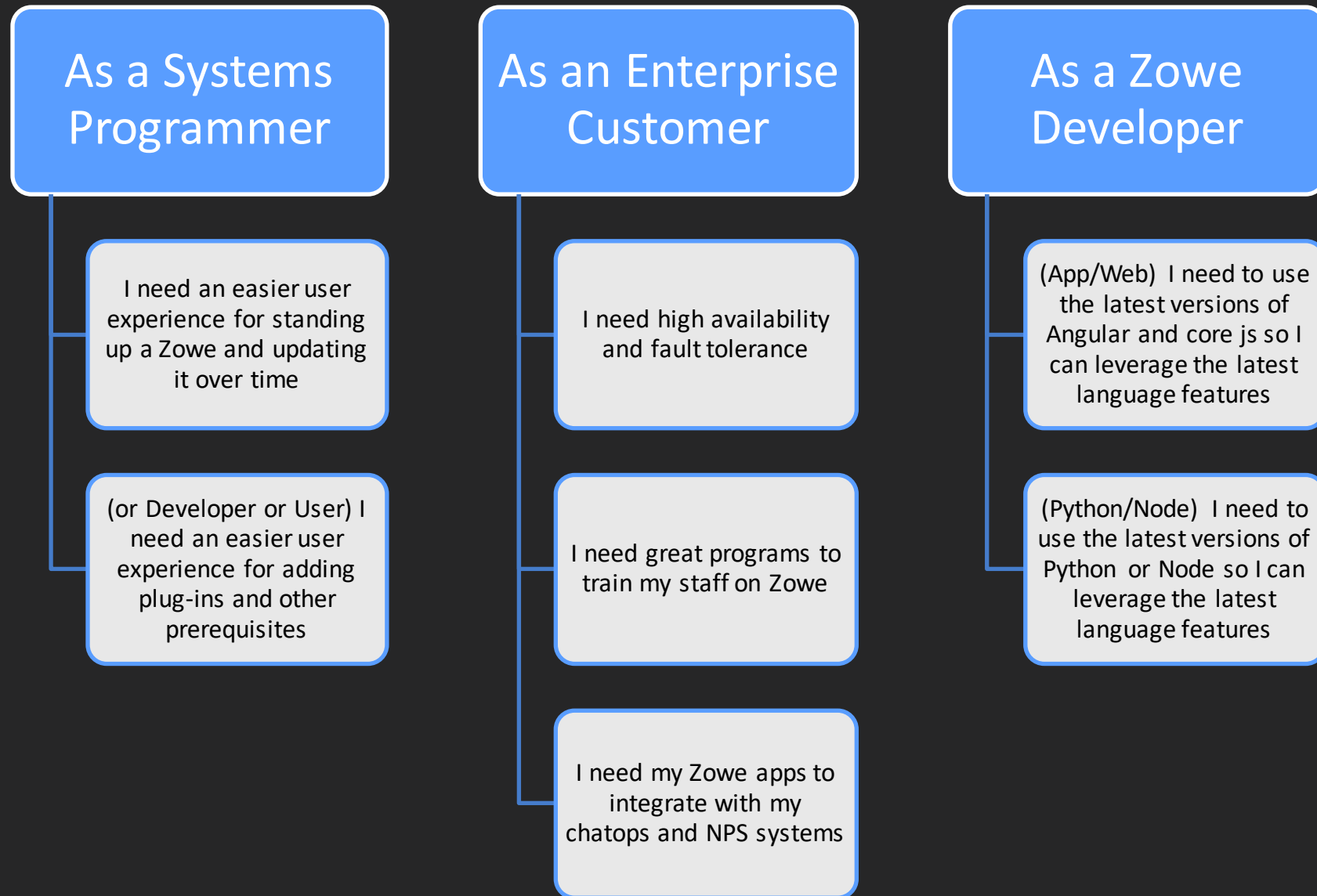
Zowe V2

- Aligns with Zowe V2 LTS
- ETA April 2022
- V2 will become the “new function” source code stream
- Those with Conformance must re-apply to newer criteria if you want new badge

<https://www.openmainframeproject.org/projects/zowe/conformance>



Zowe V2 – Perspective of the Enterprise Customer



Zowe V2 – Redesigned Based on Two Years of V1 Feedback

Still Open. Simple. Familiar. Evolved.

Add-Ons

What's New

- Centralized config of clients' connections
- Client performance improvements
- Fewer z/OS server instances & config files
- New z/OS server command structure
- Flexibility of deployment
 - Single LPAR/Sysplex/Kubernetes
- No context switching on z/OS for up and running
- Step by step or fully automated install
- Embedded code libraries updated
 - Angular, React & Javascript

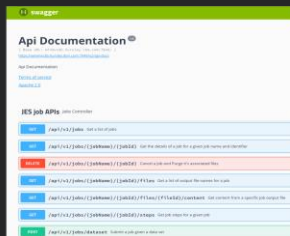
Integrated
Security
Configuration
Enhancements,
High
Availability,
Containers

New
Extender
Packaging,
Central Config of
Clients
(CLI/Explorer),
Initial Auto Config

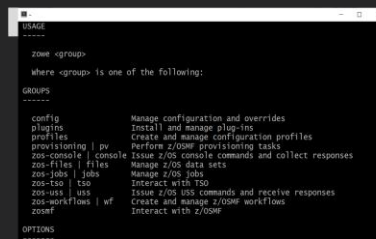
Zowe V2

With new Conformance Criteria

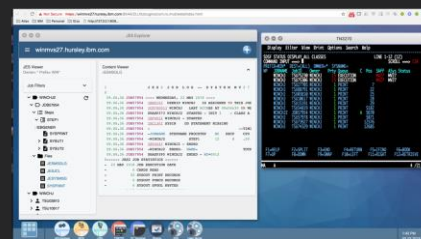
Swagger-defined z/OS APIs



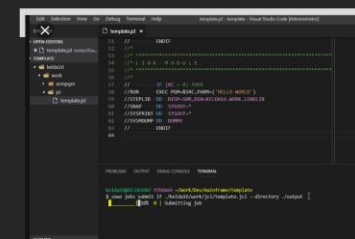
Scriptable client-side CLI



Browser-based Virtual Desktop



Visual Studio Code Extension



Zowe CLI – New Features

Team Configuration significantly improves the configuration/onboarding experience and provides the ability to easily share configuration with others in an organization.

Automatic Team Configuration leverages the Zowe API Mediation Layer to automatically configure connections for conformant API ML services that also have a CLI plug-in.

Daemon Mode significantly improves the performance of Zowe CLI by not requiring separate Node processes to be spawned for every command.

Secure by Default provides a secure out-of-the-box experience by including the secure credential store feature, previously offered as a plug-in in V1, as part of the core Zowe CLI package.



Zowe CLI — Getting Started, Made Easy!

[Core] Learn about the key enhancement improving the Zowe CLI onboarding experience by making configuration information easier to share...



Michael Bauer
Feb 2 · 8 min read

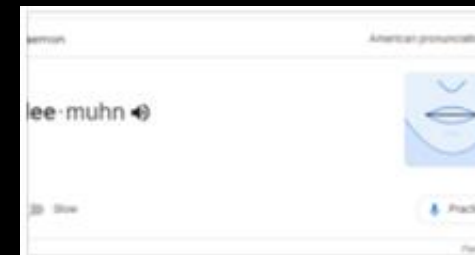


Automatic Zowe CLI Service Configuration Using API Mediation Layer

[Core] Zowe CLI vNext alongside API Mediation Layer introduces zowe config auto-init command to simplify setup and team collaboration



Fernando Rijo Cedeno
Sep 28 · 4 min read



Zowe CLI — A Faster Experience

[Core] Here we'll show a feature planned for the next major version of Zowe CLI—the ability to run it in "daemon" mode.



Dan Kelosky
Dec 29, 2020 · 3 min read

Resources

- [Migrating Zowe CLI Plug-ins for v2 Conformance](#)

Migrating Zowe CLI Plug-ins for v2 Conformance

 Timothy Johnson · 6 min read · Draft



Zowe Explorer – New Features



Team Configuration - Support for the team configuration feature from Zowe CLI that significantly improves the configuration/onboarding experience and provides the ability to easily share configuration with others in an organization.

Multi-select Support - Gives you the ability to select multiple data sets / USS files and directories/ Job Spool and perform an action

Improved Extensible APIs - Provides improvement in extending Zowe Explorer using our APIs.

Improved settings view in the Theia IDE with standardized setting names format

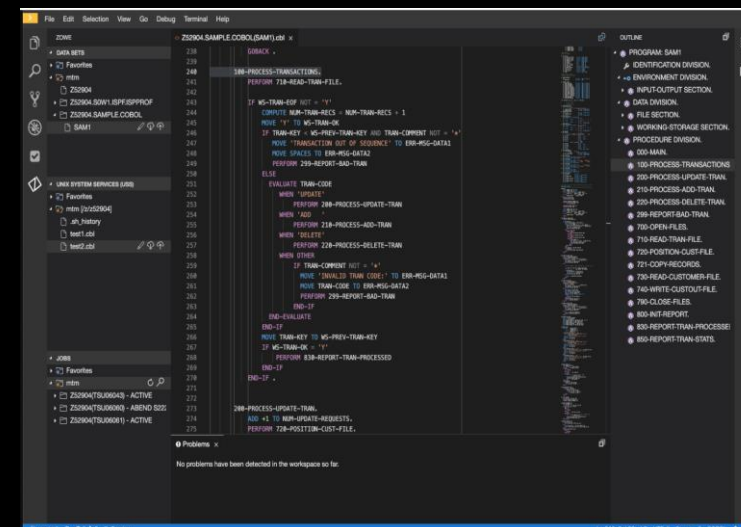
Register Custom Profiles

Error Logging API

Init for Zowe

ProfileCache (Supports team configuration)

KeytarAPI



Zowe API Mediation Layer – New Features

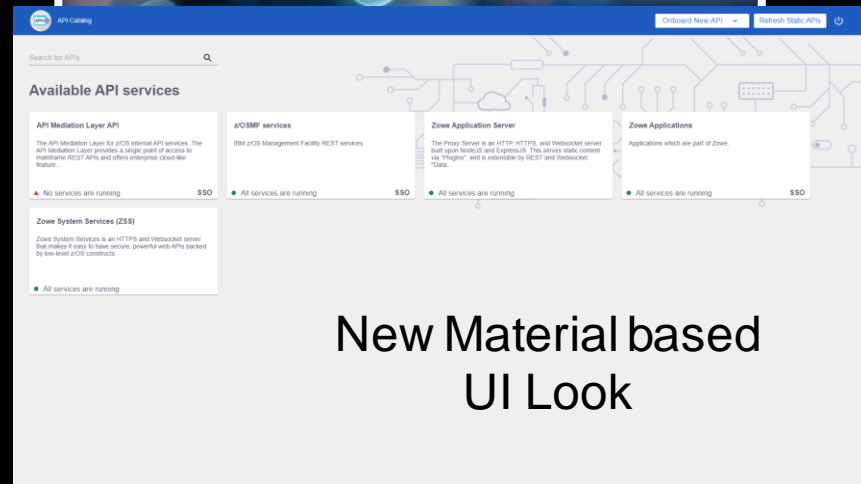
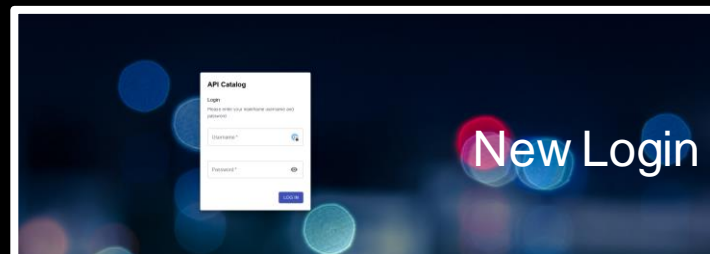


API Catalog migrates to Material UI (React)

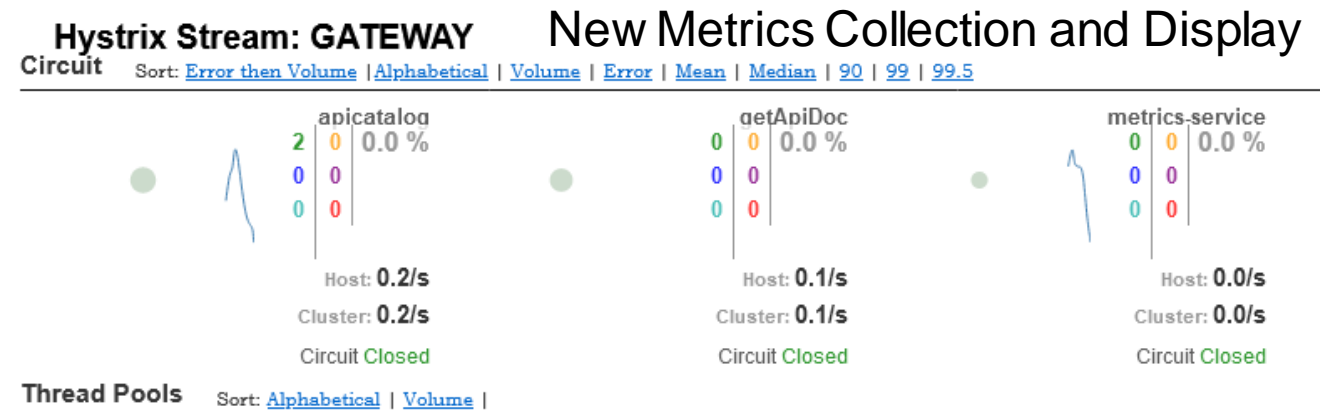
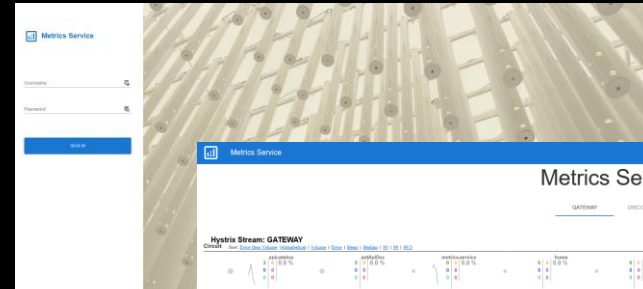
Step 1 in Modernizing the look and feel of the API Catalog

Changing password via the API Catalog directly from login screen

API Catalog facilitates a password change, without the need to switch context.



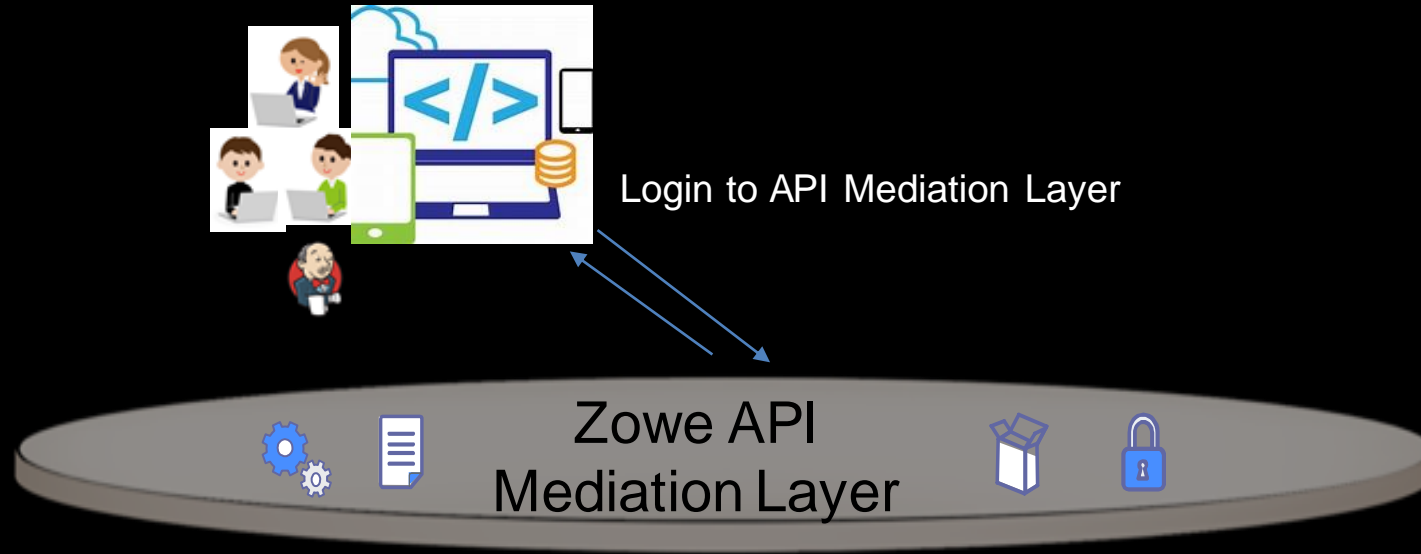
New Material based
UI Look



Secured Single Sign On Experience



Now to be included in the Zowe V2 Conformance Criteria as “Required”



REST APIs

PHOENIX Software International (E)IES	BROADCOM	bmc	BROADCOM	BROADCOM	BROADCOM
Phoenix Software International	Broadcom	BMC Software	Broadcom	Broadcom	Broadcom
BROADCOM	BROADCOM	BROADCOM	BROADCOM	BROADCOM	BROADCOM
Broadcom	Broadcom	Broadcom	Broadcom	Broadcom	Broadcom
BROADCOM	BROADCOM	BROADCOM	BROADCOM	BROADCOM	BROADCOM
Broadcom	Broadcom	Broadcom	Broadcom	Broadcom	Broadcom
IBM	IBM	IBM	IBM	IBM	Zowe
IBM	IBM	IBM	IBM	IBM	Open Mainframe Project
asg technologies	BROADCOM				
ASG Technologies	Broadcom				

Zowe and MultiFactor Authentication



<https://docs.zowe.org/stable/user-guide/mvd-configuration/#multi-factor-authentication-configuration>

Multi-factor authentication configuration

Multi-factor authentication is an optional feature for Zowe.

As of Zowe version 1.8.0, the Zowe App Framework, Desktop, and all apps present in the SMP/E or convenience builds support out-of-band MFA by entering an MFA assigned token or passcode into password field of the Desktop login screen, or by accessing the app-s

<https://medium.com/zowe/using-mfa-with-zowe-how-it-works-today-41bfc5aa9e4e>

For a list of compatible MFA prod

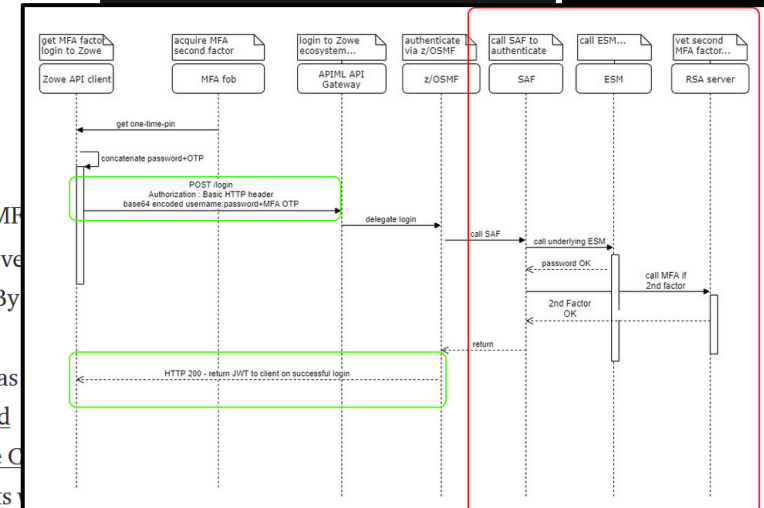


Sean Grady

Jun 16, 2020 · 7 min read · Listen

Using MFA with Zowe: How it Works

{Core} A frequent Open Mainframe Project's Zowe question is "Can it use MFA and more specifically "Can it work with MY MFA setup?". It's no surprise; every year another website I use makes the switch to a multi-factor-based login. By it seems like more well-known companies use it than not. To answer the questions, yes, Zowe can use MFA, and it probably can use your setup, but as Greg mentioned in a previous article [there are various MFA approaches and implementations](#). As a follow-on to Dan's previous article on how [the Zowe C](#) could soon work with MFA let's explore how Zowe's UI and API components with MFA, and how your own software may as well.



The big picture on authentication for Zowe. In red: The backend solution that makes MFA work for Zowe. In green: The session management that we'll use to accomplish SSO

Zowe App Framework – New Features 1/2



Summary: Major install & configuration simplification due to various improvements. Reduced overhead and increased performance due to reduction in server count, optimized networking, and 64 bit ZSS

Feature list:

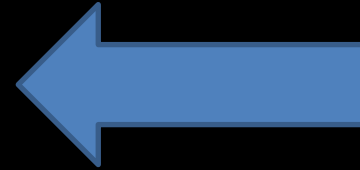
- **Consolidation of Web Explorer Servers:**
 - Explorer USS, MVS, and JES no longer have node servers (3 less servers), due to utilizing app-server for hosting.
 - Jobs & Datasets APIs now disabled by default (2 less servers), and Explorers do not rely on them
- **Can specify advanced app-server & zss config in zowe.yaml:**
 - Simplify/Unify app framework configuration by using 1 config file rather than 2 (instance.env, server.json)
- **Replace referrer security check with 'samesite' cookie option:**
 - No longer need to specify external hostname to pass security check
- **Remove "loopback routing" in app-server:**
 - Resolves bugs around use of a loopback IP when running app-server



Zowe App Framework – New Features 2/2

- **New desktop library versions**

- Angular 6->12
- Corejs 2->3
- Typescript 2->4



Note: Impact of embedded libs to app “depends”
iFrame integrations no expected issues

- **Contiguous default ports:**

- App framework ports (formerly 85xx) now follow APIML ports (75xx)

- **Consistent environment variable names**

- Standardize environment variable names around ZWED_, and ZWES_ prefixes for consistency.
Some aliases to previous names

- **Informative desktop login messages:**

- Desktop login failures now print useful troubleshooting details about server communication issues

- **ZSS 64 bit:**

- ZSS 64 bit version now exists alongside prior 31-bit version. Better performance and higher memory limit. Now utilizes 64-bit cross-memory to ZIS

Zowe Systems / Install – New Features 1/2



Summary: New server command “zwe” is introduced to balance between simplification and flexibility on installation and configuration.

Feature list:

- **Almost all Zowe utility scripts in v1 are consolidated into new “zwe” server command.** This new command defines consistent help messages, logging options, etc.
 - You can type “zwe -h” to get help messages anytime you feel lost.
 - Consistent “-log-dir|-l” to allow you write logs to target directory.
- **Provides shell function library to help extensions to achieve common tasks.**
 - For example, execute TSO command, operator command, submit job and check job completion, etc.
 - Keep away from commands/functions marked as experimental and internal.
- **Installation / Configuration changes**
 - During install, no new runtime directory will be created.
 - A zowe.yaml file can be used to centralize all configuration options. This configuration is compatible with all Zowe use cases (including high availability and containerization).
 - For almost all Zowe configuration steps, we now provide automation option “zwe init” command.
 - You still have the flexible option to run all steps one by one.
 - --security-dry-run mode allows you to generate security commands and pass along to your sysadm.
 - You can run all steps from USS now.

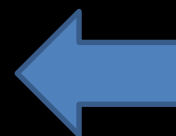


Zowe Systems / Install – New Features 2/2

Summary: Component/extension can use manifest.yaml to define how it interacts with Zowe and other components.

Feature list:

- **Component/extension must define a manifest.yaml or manifest.json file to describe itself.**
 - The manifest allows you to define:
 - how to register on Zowe APIML Discovery,
 - how to register under Zowe Desktop,
 - whether it's java extension library for APIML, etc.
 - Component can define their own “configs” in manifest.yaml which shows the user how to customize this component and provides default value if they are not defined.
 - This option is compatible with Zowe running in high availability mode.
- Introduced new data sets to better organize the contents.



This is a piece of what we mean by new “packaging” – see “Futures” Slide

Feature list:

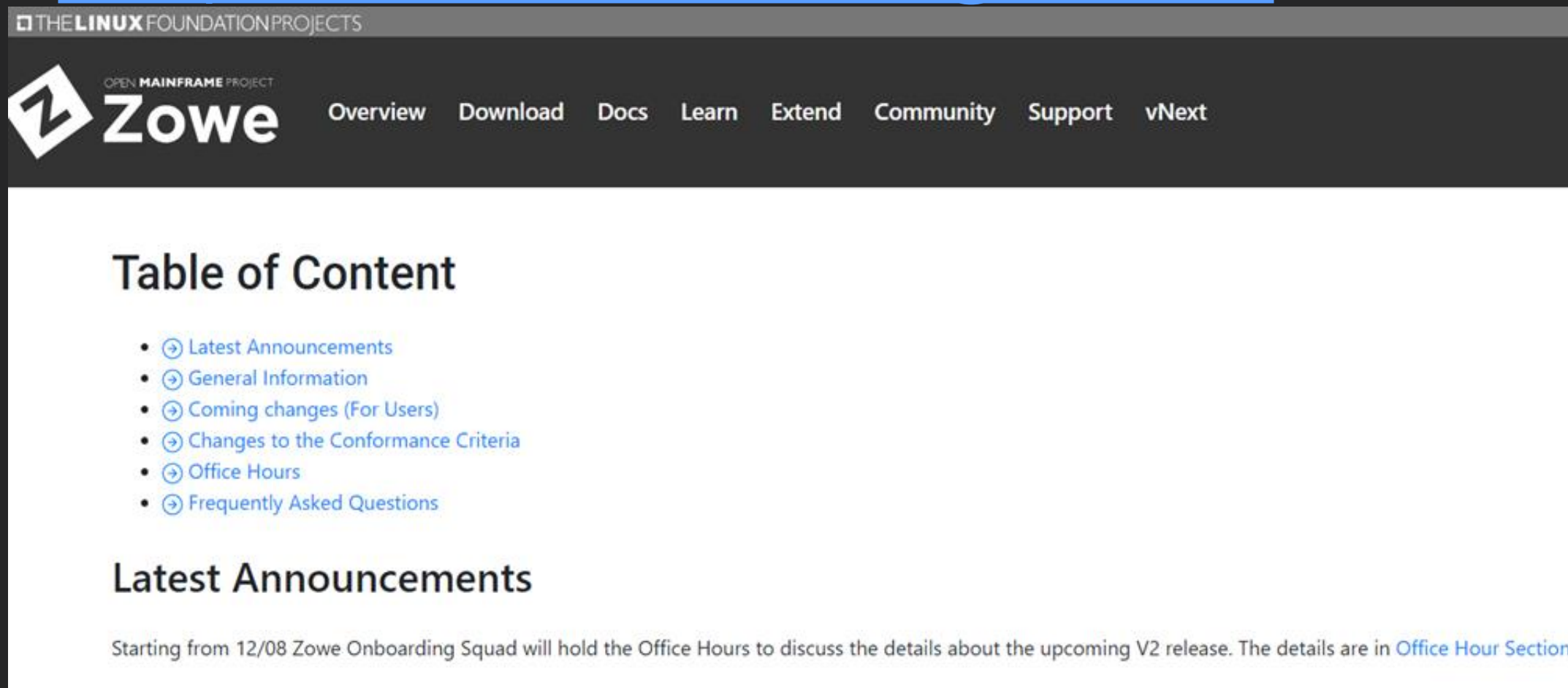
New SZWEEEXEC is added to contain few utility tools.

You can customize your own PARMLIB, APF Authorized LOADLIB and APF authorized ZIS plugins library.

CUST.JCLIB is a data set Zowe will store temporary JCLs in it.

Resources

- <https://www.zowe.org/vnext>



The screenshot shows the Zowe vNext website. At the top, there is a dark navigation bar with the Zowe logo (a stylized 'Z' in a square) and the text 'OPEN MAINFRAME PROJECT'. To the right of the logo are links: Overview, Download, Docs, Learn, Extend, Community, Support, and vNext. Above the navigation bar, a small banner reads 'THE LINUX FOUNDATION PROJECTS'. Below the navigation bar, the main content area has a 'Table of Content' section with a list of links: Latest Announcements, General Information, Coming changes (For Users), Changes to the Conformance Criteria, Office Hours, and Frequently Asked Questions. Below this is a 'Latest Announcements' section with a paragraph of text: 'Starting from 12/08 Zowe Onboarding Squad will hold the Office Hours to discuss the details about the upcoming V2 release. The details are in [Office Hour Section](#)'.

THE LINUX FOUNDATION PROJECTS

Zowe OPEN MAINFRAME PROJECT

Overview Download Docs Learn Extend Community Support vNext

Table of Content

- [Latest Announcements](#)
- [General Information](#)
- [Coming changes \(For Users\)](#)
- [Changes to the Conformance Criteria](#)
- [Office Hours](#)
- [Frequently Asked Questions](#)

Latest Announcements

Starting from 12/08 Zowe Onboarding Squad will hold the Office Hours to discuss the details about the upcoming V2 release. The details are in [Office Hour Section](#)

Technical Previews

Looking to try V2?

<https://www.zowe.org/download.html>

Zowe V2 Preview

Explore the upcoming production-ready V2 Long Term Support release below and provide feedback to the community on the documentation, user experience, and desired features that can be implemented in future releases. Any feedback that you can provide is highly appreciated. Let us know via Slack or GitHub!

Server-side component installer

Install Zowe z/OS components from the **convenience build**, the **SMP/E build** or the **containerization build** depending on your need.

Convenience build

PAX archive format installed on the z/OS server

[Zowe v2.0.0-TP2 z/OS convenience build](#)

[➔ Read installation docs](#)

SMP/E build

SMP/E format installed on the z/OS server

Download the base FMID AZWE002 (based on v2.0.0-TP2)

[Zowe v2.0.0-TP2 FMID](#)

[➔ Read installation docs](#)

Client-side component installer

Install **Zowe CLI** or **Zowe Explorer**, a Visual Studio Code extension powered by Zowe CLI.

Zowe CLI

Install Zowe CLI from the local package or from an npm registry if your computer is connected to the Internet.

Download the Zowe CLI core package and optionally download the plug-ins (CICS, Db2, IMS, MQ, z/OS FTP, and so on) to gain more capabilities.

[Zowe v2.0.0 CLI Core](#)

[Zowe v2.0.0 CLI Plug-ins](#)

[➔ Review early access features](#)

Zowe Client SDKs

Download the Zowe Software Development Kits (SDKs) for use in development and automation.

[Zowe v2.0.0 Node.js Client SDK](#)

[➔ Browse SDK reference](#)

Zowe Explorer

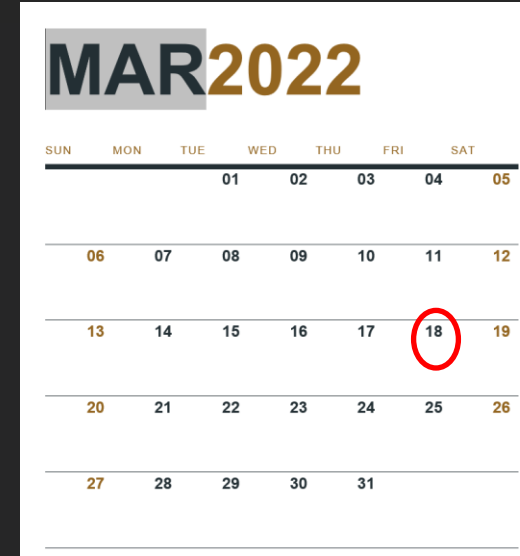
Zowe Explorer vNext enables you to adopt the team configuration file, recently developed by the Zowe CLI Squad, to make profile management more centralized and much simpler.

You can download the .vsix files directly from the GitHub release page with the tag "**Pre-release**". Separate downloads are available for Zowe Explorer and Zowe Explorer Extension for FTP.

Conformance Timeline

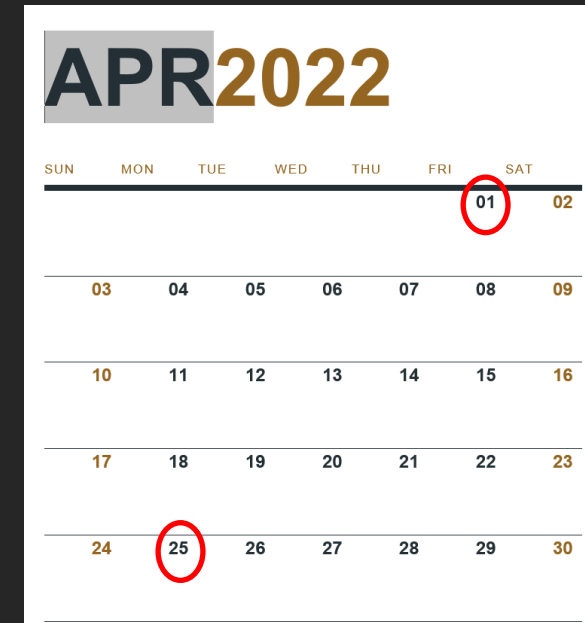
Friday March 18th (latest)

- Final conformance criteria posted



Friday April 1st

- Pre-applications open for V2 conformance



Monday April 25th

- Launch V2 conformance landscape

V2 Office Hours

<https://www.zowe.org/vnext>

Office Hours

Check out the [OMP Calendar](#) for specific time of the V2 office hours.

Consumer Focused Office Hours

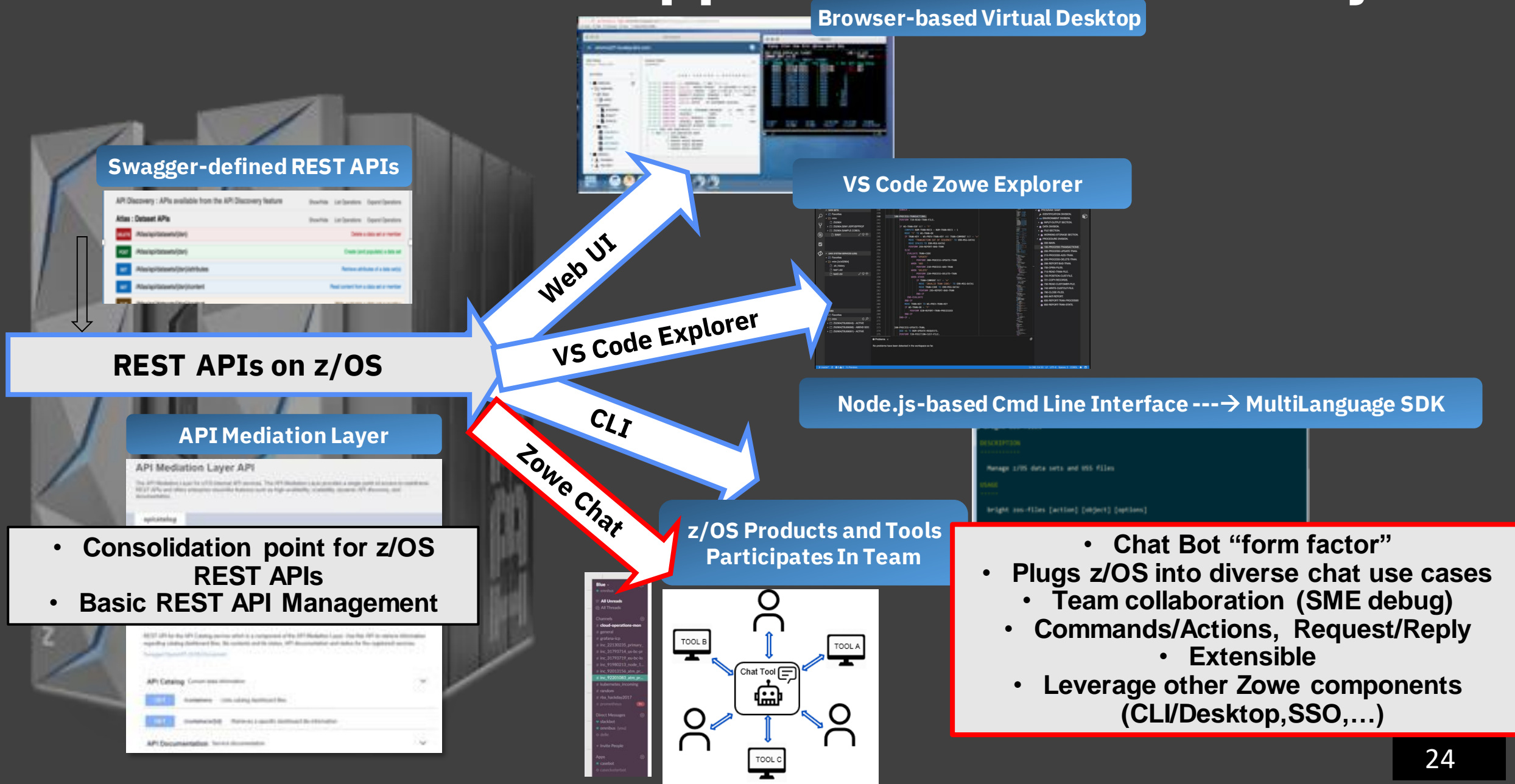
Date	Topic	Link to the meeting	Link to the recording	Links to the materials
04/27/2022 12:00PM - 12:30PM ET	Zowe Web UI for Consumers	https://zoom.us/j/94312528890		
04/20/2022 12:00PM - 12:30PM ET	Zowe Explorers for Consumers	https://zoom.us/j/94312528890		
04/13/2022 12:00PM - 12:30PM ET	Zowe CLI for Consumers	https://zoom.us/j/94312528890		
04/06/2022 12:00PM - 12:30PM ET	Zowe API Mediation Layer for Consumers	https://zoom.us/j/94312528890		

Extender Focused Office Hours

Date	Topic	Link to the meeting	Link to the recording	Links to the materials
02/23/2022 12PM - 1PM ET	General Wrap-up	https://zoom.us/j/94312528890	Zoom recording	Presentation
02/16/2022 12PM - 1PM ET	Zowe V2 Office Hours: APIML V2 SSO Conformance Requirements	https://zoom.us/j/94312528890	Zoom recording	Presentation
02/09/2022 12PM - 1PM ET	V2 General Information	https://zoom.us/j/94312528890	Zoom recording	Presentation
02/02/2022 12PM - 1PM ET	Systems / Install	https://zoom.us/j/94312528890	Zoom recording	Presentation
01/26/2022 12PM - 1PM ET	Web UI (Zowe Application Framework)	https://zoom.us/j/94312528890	Zoom recording	Presentation
01/19/2022 12PM - 1PM ET	Explorers	https://zoom.us/j/94312528890	Zoom recording	Presentation
01/12/2022 12PM - 1PM ET	API Mediation Layer	https://zoom.us/j/94312528890	Zoom recording	Presentation
01/05/2022 12PM - 1PM ET	CLI	https://zoom.us/j/94312528890	Zoom recording	Presentation
12/08/2021 12PM - 1PM ET	Kickoff	https://zoom.us/j/94312528890	Zoom recording	Presentation

New incubator: Zowe Chat

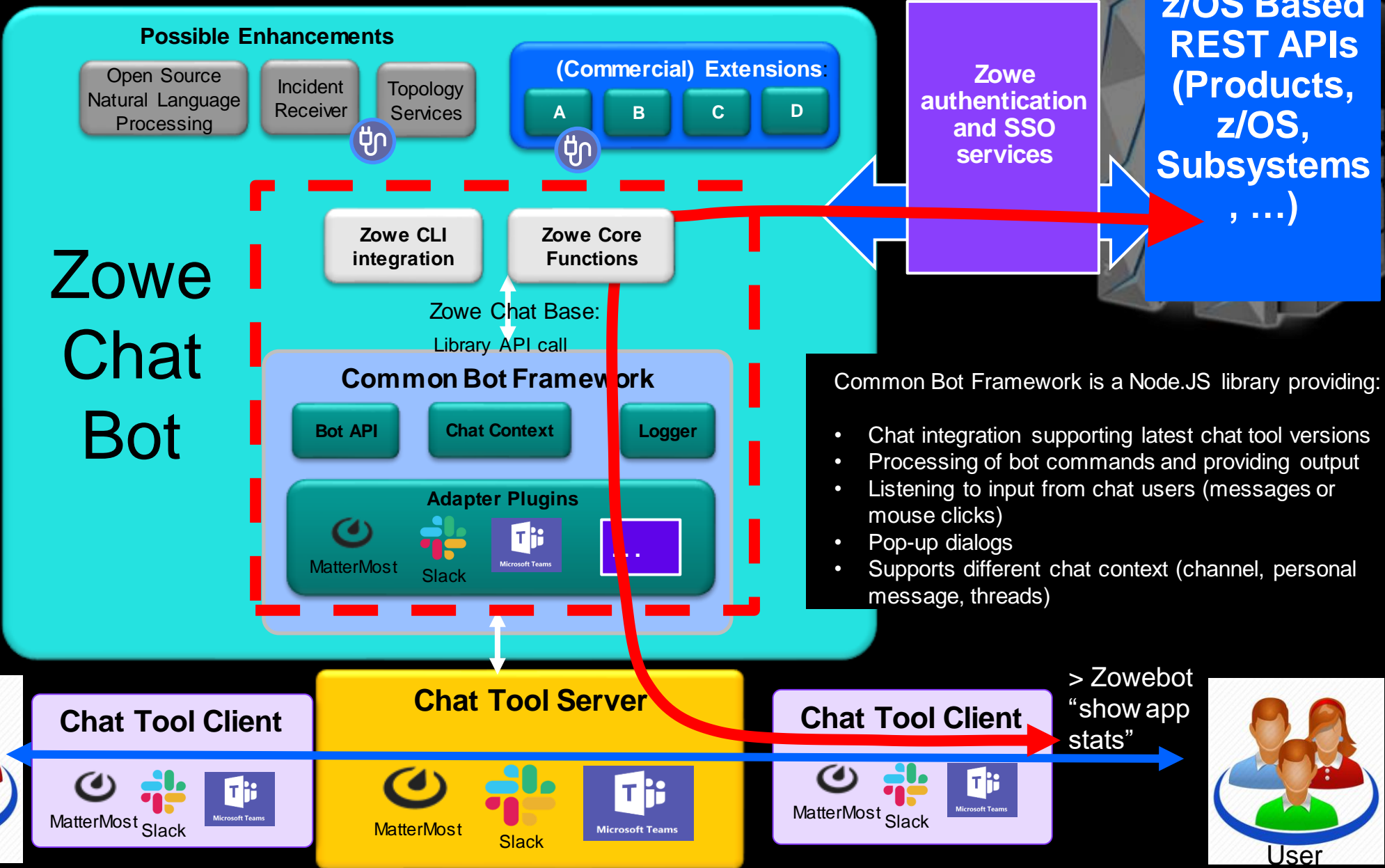
Zowe Chat – Latest Approved Incubator Project



Zowe Chat Components and possible Extensions

Zowe Chat as bridge between chat tools and z/OS based information

- Person to machine
- Team to machine
- Machine to team
- Machine to person
-



Additional Futures

- Use of Parmlib

- <https://github.com/zowe/zlux/issues/777>

V2 Parmlib and multi-config support #777

Open

1000TurquoisePogs opened this issue on Jan 26 · 1 comment



1000TurquoisePogs commented on Jan 26 · edited

Member



Mainframe configuration is typically done via PARMLIB datasets, and change management software likely assumes this. Zowe does not support this method of configuration today, making zowe seem foreign to the platform and harder to manage. This problem can be solved by building a way to support both existing config files and PARMLIB by having some mapping between the key-value system of PARMLIB and the nested attribute system of zowe.yaml, and then continuing to have the server infrastructure startup code provide environment variables to servers which are the processed output of the configuration files.

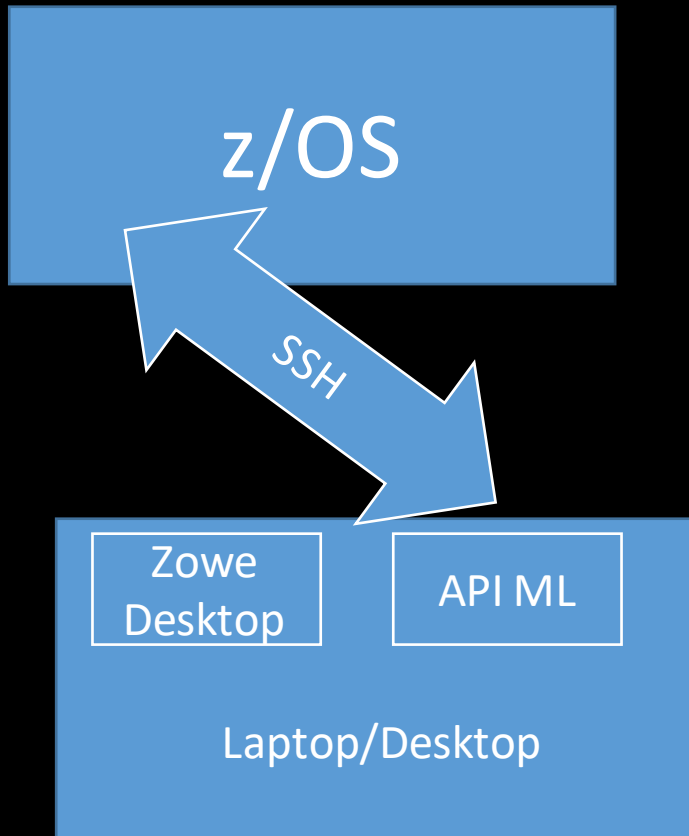
PARMLIB allows for multiple config files of narrower and narrower scope to override each other, so that global settings can be set by an admin and overridden by a user.

So, zowe config should be changed to allow for a list of config files which get merged together regardless of type (parmlib, yaml)

Additional Futures

- Single user mode ZSS

<https://github.com/zowe/zss/issues/429>



Single user mode ZSS can eliminate the need for special permissions, certificates, and an STC user.

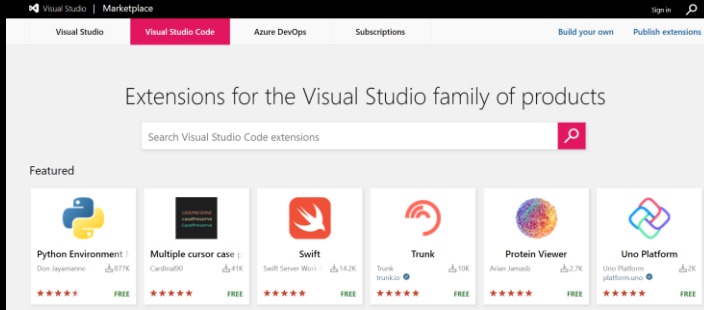
Unlike the pre-existing multi-user mode of ZSS, no user other than the user running it will be able to authenticate to it. This mode allows you to therefore do single user tasks, such as:

- Run the Zowe Desktop and ZSS-dependent apps, for a single user (Such as the demo scenario described above)
- Utilize ZSS as a z/OS bridge in other, possibly non-Zowe projects, such as in a CI/CD pipeline.

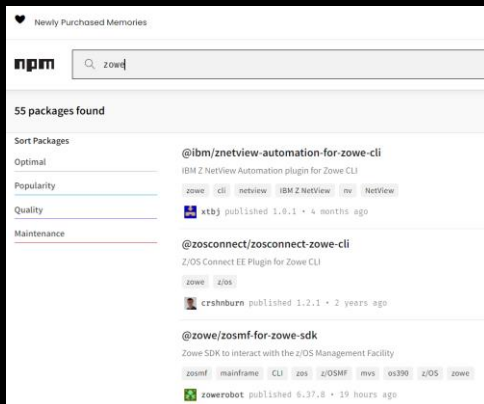
Additional Futures

- App store concept

VS Code Marketplace

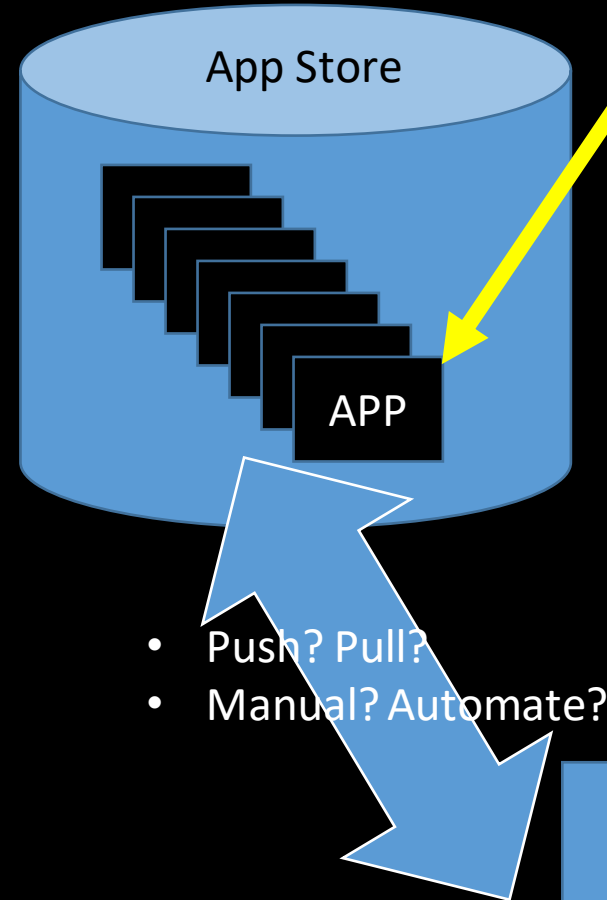


Node.js apps has npm.js repo



What about z/OS?

- On-prem/Public
- Customer/Vendor
- z/OS or other



- Component/extension manifest.yaml or manifest.json file to describe itself.
 - how to register on Zowe APIML Discovery,
 - how to register under Zowe Desktop,
 - whether it's java extension library for APIML, etc.
- Component can define their own "configs" in manifest.yaml to customize and provides default values

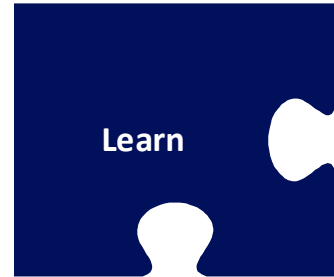
Zowe
Desktop

API ML

z/OS

How to get involved in Zowe

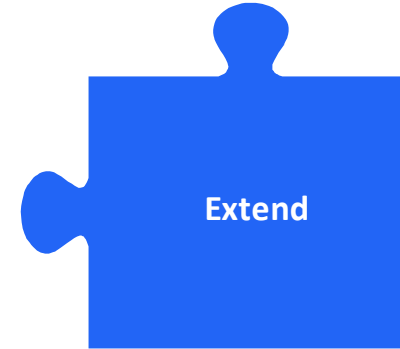
We are building more than just technology, we are building a **community**



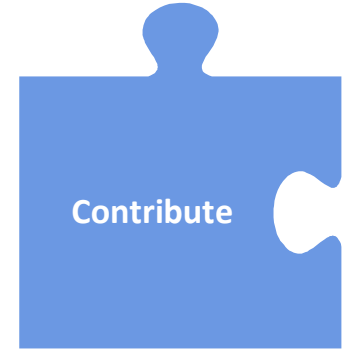
- Visit the [Open Mainframe Project](#)
- Visit [Zowe.org](#)
- Connect with us on [Slack](#) or via [email list](#)
- Zowe on [zTrial](#) (under IT Operations)
- Interskill Basics for Zowe badge [Zowe Basics](#)



- [Zowe Github](#)
- [Download Zowe](#)
- Review [documentation](#)
- [Troubleshooting](#)
- Reach out to us on [Slack](#) or via [email list](#)



- Review the [extenders guide](#)
- Zowe [Tutorials](#) and [Samples](#)



- Provide feedback, problems or recommendations to us on [Slack](#) or via [email list](#)
- Submit [Git](#) Issues
- Review the community [backlog](#) and contribute code
- Earn your committer status through meritocracy



Thanks

What is Zowe? Open and Free Software Integration Framework



Zowe is Open Source Software that Accelerates z/OS Digital Transformation

(Wrappers z/OS to appear “cloud-like” – does not bypass any z/OS security features)

Many Use Cases for Developers, Operators and System Programmers

(Not necessarily intended for LOB use but no restrictions either)

Provides Modern Ways to Interact with z/OS

**Appeals to Next Gen IT and Senior Staff – It
Can Enhances IT Staff Productivity**

Can be used 1) Stand-alone or 2) with vendors products

Zowe™ accelerates z/OS digital transformation

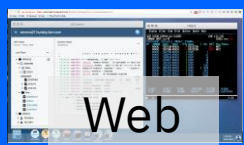


Provides Modernization, Improved Integration and Enhanced IT Staff Productivity

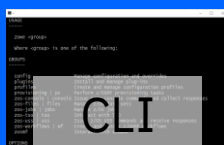
Starter Set of Applications

(Editors, 3270, Commands to z/OS and IBM Subsystems)

3 Modern User Interface Technologies



Web



CLI



IDE
Extension

Productivity Applications for IBM subsystems: Easy access to JES, TSO, CICS, IMS, Db2, MQ, z/OS Connect, Workload Scheduler, NetView, System Automation, ...

Extensible and Versatile User Interfaces: Web, Scriptable Command Line Interface and plug-in for popular developer tools

REST API Gateway and Access Control



Hybrid
Access

Secure Hybrid Cloud integration access: Uses z/OS Access Security and Encryption Capabilities

Extensible REST API Catalog and Management

z/OS REST
APIs

z/OS Products
REST APIs

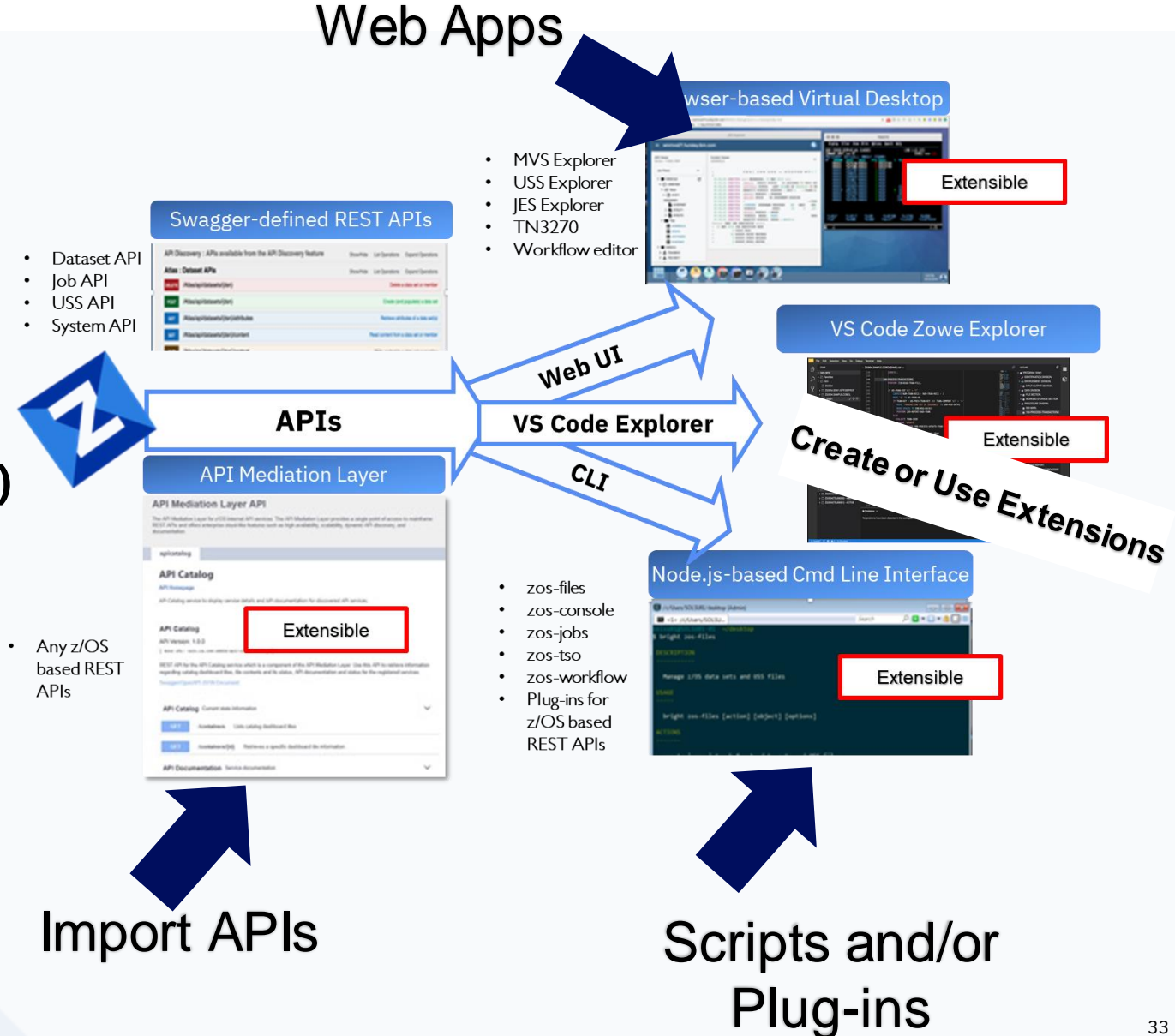
3rd Party z/OS
REST APIs

In-House
Developed z/OS
REST APIs

Modern access to z/OS based services: Consolidates z/OS System and Subsystem REST APIs

Zowe “Integration Framework” (with starter apps)

- Zowe is an open source project however an executable runtime is also built and provided (known as a “convenience build”)
- The Zowe runtime provides well-defined interfaces to be exploited/extended by anyone (Zowe Explorer work in progress)
- Software that extends Zowe using the interfaces is not required to be open sourced (but can be contributed)
- Zowe use cases can be based on one or more of the interfaces





21PI3 Zowe Squad Achievements



Zowe CLI Squad

- Zowe CLI can now leverage client certificates for authentication
- Significant improvements to the Zowe CLI out of the box experience including:
 - Improved the ZOWE CONFIG AUTO-INIT commands
 - Removed requirement to perform a specific login action before getting started
 - Added a ZOWE CONFIG IMPORT command

Zowe API ML Squad

- Created conformant images of API ML to support the containerization initiative
- Enhanced Password Management REST API to include password expiration warnings
- Improve performance and response time by dynamically compressing responses from ZSS
- Simplified onboarding of new services to the API ML via a new wizard in the API Catalog

Zowe App Framework Squad

- Continued work on Containerization
 - App server component image
 - Explorers container
 - Conformance and legal requirements in process
- Optimistic Locking for ZSS Dataset REST API
 - Includes Diff Viewer in the Editor
- Completed Support for Passtickets in ZSS
- Filtered documentation

Zowe Explorer Squad

- Enhancement on our Extender APIs
 - ProfilesCache is now accessible for extenders and they can store their own profile type
 - An Error Handling API was also added so that extenders can leverage our error logging feature.
- We polished our MVS and TSO commands and addressed some issues.
- Created a bot that guides users when they open issues in our repository
- Enhancements on the Zowe Explorer @next version
 - Creation / initialization of the team config file via Zowe Explorer
 - Prompting for credentials when not stored
- The FTP extension has a profile validation feature
- The CICS extension has been published and ready for download

Zowe Onboarding Squad

- Continuous Community Outreach
 - Coordinated & launched semi-annual Zowe Survey (10/15)
 - Coordinated & facilitated OMP Zowe Quarterly Webinar focus on V2 / V2 conformance (10/20)
 - Social Media Management / presence
 - Medium.com/Zowe: 10 new blogs posted
 - Zowe Sessions @ WW Conferences
 - SHARE (Aug 9 - 13)
 - Code PaLOUSA (Aug 18 - 20)
 - Open Mainframe Summit (US Sep 22-23, EU Sep 27-30)
- V1 Conformance Introductions
 - Finalized, coordinated OMP approval, and published Zowe V1 Support Provider Conformance program
 - Coordinated OMP approval, and published Zowe V1 Explorer for VS Code Conformance program (pending landscape w/badges)
- Community Growth:
 - Finalized official "onboarding" of incubator project "Workflow Wizard", i.e. listed on zowe.org (Aug 24)

Zowe Documentation Squad

- Improved the information architecture of User Guide (now split into Setup and Use) to provide better information flow
- Published the Ask Zowe chat bot in the Zowe Slack workspace (@Ask Zowe)
- Improved the installation doc to address feedback

Zowe System Squad

- Zowe can now be installed using z/OSMF using a new Portable Software Instance
- Containerization progressed to a new milestone with the addition of Kubernetes support in 1.25 as a technical preview

How are Zowe teams organized?

- Zowe is a collection of teams (we call “squads”) – each with their own development actions AND with “cross squad” activities
- Squad names typically go by the technology they develop:
 - **Zowe Explorer – the VS Code extension**
 - **Zowe CLI/Client SDK**
 - **Zowe API Mediation Layer**
 - **Zowe Desktop/Application Framework/Web UI**
 - **Systems Team (Build/Test Infrastructure Team)**
 - **Onboarding – Helpers to adoption/Conformance Program**
 - **Documentation/Zowe.org web site**
 - **Technical Steering Committee (TSC) – Cross Squad Coordination**
 - **Zowe Advisory Council (ZAC) – Vendor Advocacy to Zowe**

*There are different ways
and “levels” to get
engaged depending on
your needs/interests*

Ways to Interact: Slack

- Slack access is no charge – use <https://slack.openmainframeproject.org/> to sign up
- **Note:** the Slack service has a message (and file attachment) limit so *older message roll to the bit bucket over time*
 - *How much time depends on the traffic*
 - *This is not ideal method for long running debug conversations*
- Please keep in mind the responders do their best to be responsive – but it is on a “best effort” basis
- We understand not all enterprises allow slack – there are a couple alternatives: Github (preferred) and email (has some considerations)

Popular Slack Channels:

#zowe-onboarding
#zowe-user
#zowe-cli
#zowe-explorer
#zowe-api
#zowe-doc
#zowe-tsc

Ways to Interact: Github

- Zowe uses Github for the raising and tracking of “issues” (an issue can be enhancement request, report a defect, etc.)
- You need to create a github account to uniquely identify yourself to the community
 - *For example, go to github.com to sign up*
 - *Note: for security reasons you may need to set MultiFactor Authentication (Linux Foundation policy)*
 - *Find the Zowe repositories*

Join GitHub


Create your account

Username *


Email address *


Password *


Make sure it's at least 15 characters OR at least 1 letter. [Learn more.](#)

 armstro ▾


Repositories [New](#)


 [zowe/zlc](#)

 [zowe/community](#)

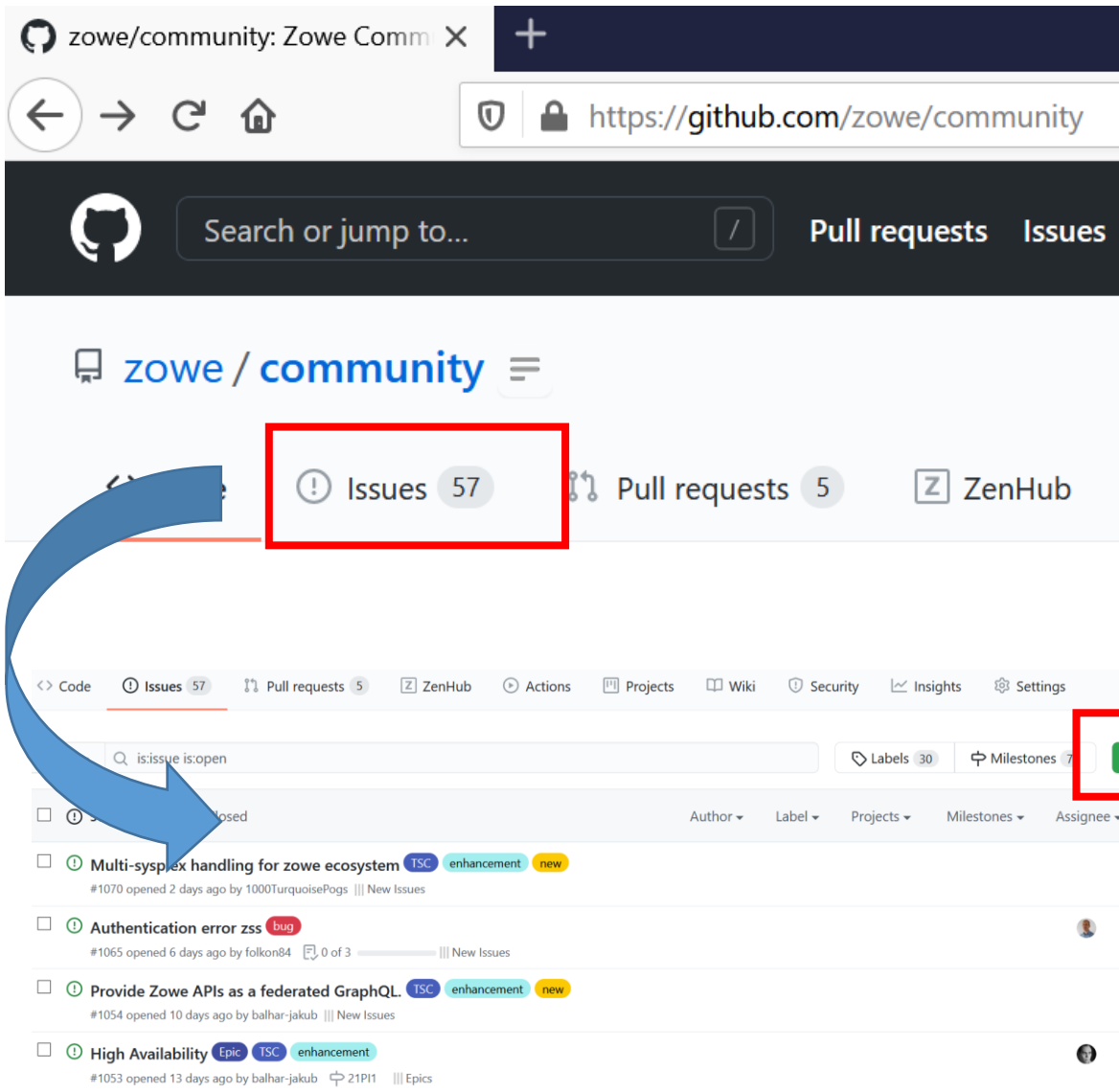
 [zowe/docs-site](#)

Your teams

 [zowe/committers-onboarding](#)

 [zowe/zlc](#)

Some Key Github Repos



- **Zowe community you can raise “issues”**
- **See existing issues and search**
- **Issue routed to the right team**
- **Please stay involved – help test when your issue is addressed**

Blog Post

Suggestion for a blog post for medium.com/zowe

Bug Report

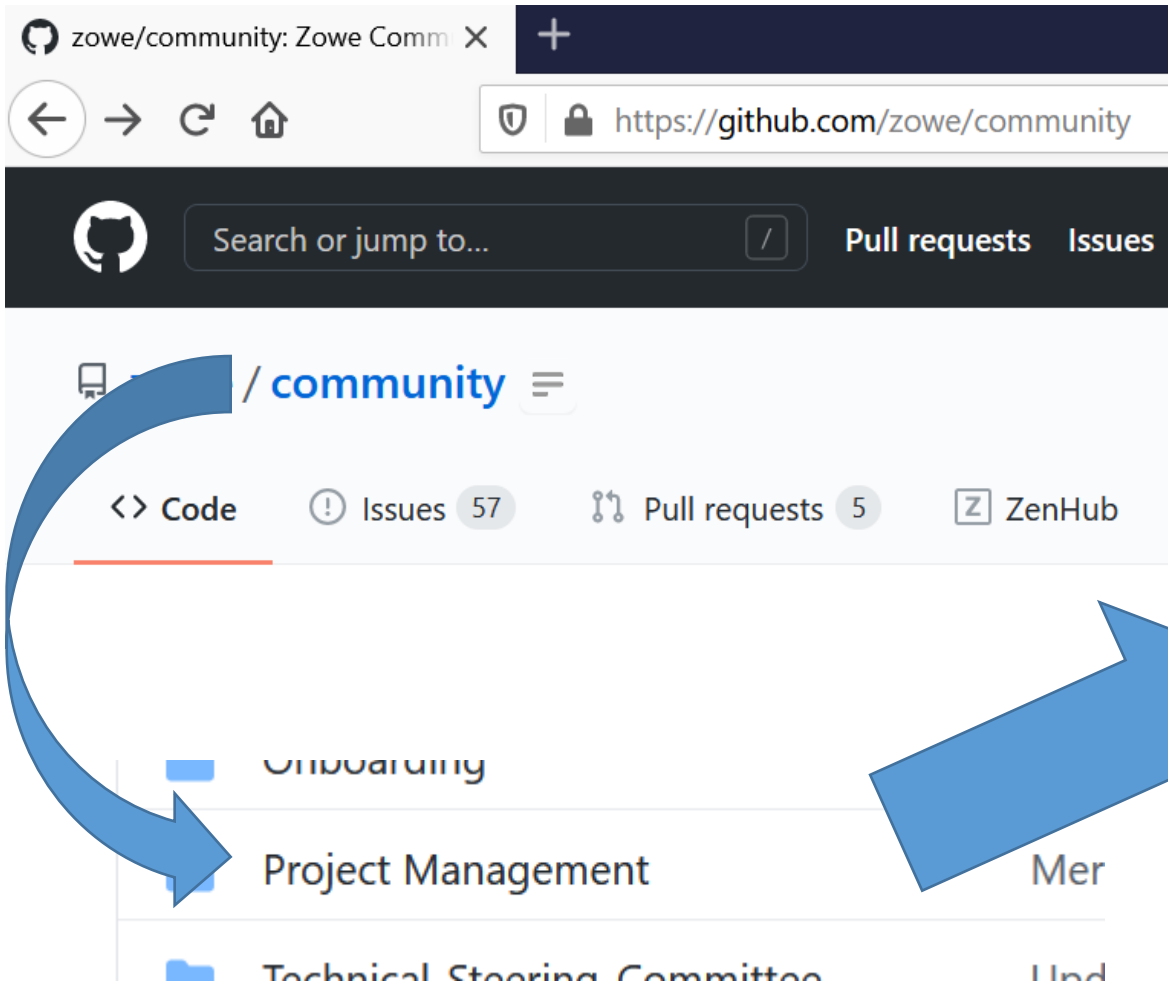
Create a Zowe bug report

Feature Request

Suggest an idea for Zowe

Don't see your issue here? [Open a blank issue.](#)

Some Key Github Repos



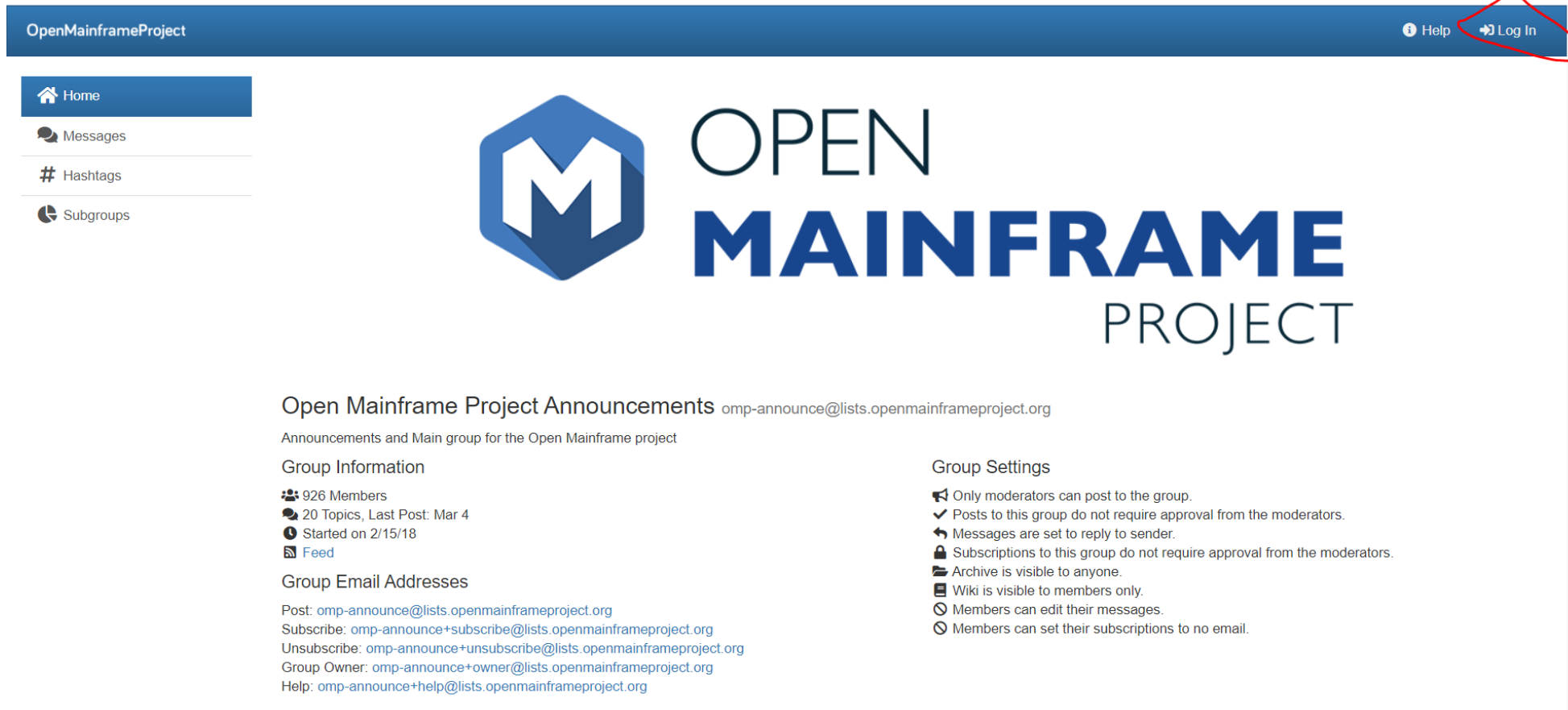
- In the Zowe community find Project Management

Architecture Call	Recordings technical idea exchanges
Meeting Minutes and Agenda	
PI Planning	Recordings <u>quarterly cross squad dev planning</u>
Schedule	Open Community Release schedule
System Demo	Recordings of coming features - Usually, the week prior to a new release

Ways to Interact: Calendaring/ Email

- The Open Mainframe Project provides a central calendar service and email distribution process.

<https://lists.openmainframeproject.org/g/omp-announce>



The screenshot shows the Open Mainframe Project website. The top navigation bar is blue with the text "OpenMainframeProject" on the left and "Help" and "Log In" on the right. The "Log In" button is circled in red. Below the navigation bar is a sidebar with links: Home, Messages, Hashtags, and Subgroups. The main content area features the Open Mainframe Project logo and the text "OPEN MAINFRAME PROJECT". Below this, there is a section for "Open Mainframe Project Announcements" with the email address "omp-announce@lists.openmainframeproject.org". To the right of this section is a "Group Settings" box with various options.

OpenMainframeProject


Help Log In

Home

Messages

Hashtags

Subgroups

 OPEN
MAINFRAME
PROJECT

Open Mainframe Project Announcements omp-announce@lists.openmainframeproject.org

Announcements and Main group for the Open Mainframe project

Group Information

- 926 Members
- 20 Topics, Last Post: Mar 4
- Started on 2/15/18
- [Feed](#)

Group Email Addresses

Post: omp-announce@lists.openmainframeproject.org

Subscribe: omp-announce+subscribe@lists.openmainframeproject.org

Unsubscribe: omp-announce+unsubscribe@lists.openmainframeproject.org

Group Owner: omp-announce+owner@lists.openmainframeproject.org

Help: omp-announce+help@lists.openmainframeproject.org

Group Settings

- ☐ Only moderators can post to the group.
- ☒ Posts to this group do not require approval from the moderators.
- ☒ Messages are set to reply to sender.
- ☒ Subscriptions to this group do not require approval from the moderators.
- ☒ Archive is visible to anyone.
- ☒ Wiki is visible to members only.
- ☒ Members can edit their messages.
- ☒ Members can set their subscriptions to no email.

Login allows
you to create
an account

Ways to Interact: Calendar

Note: Calendar invites may have format and compatibility issues across various calendar tools

Join our weekly meetings:

- OMP Calendar:
<https://lists.openmainframeproject.org/calendar>
- Import the Calendar URL:
<https://lists.openmainframeproject.org/g/zowe-dev/ics/3109196/317992940/feed.ics>

March 2021					
	Mon	Tue	Wed	Thu	Fri
28	1	2	3	4	5
	10:00am [Ambitus Discussion] An 11:00am [zowe-dev] Zowe CLI Sta	10:00am [zowe-dev] Zowe Archite 10:30am [zowe-dev] Zowe Explor	8:00am [zowe-dev] Zowe CLI Star 9:00am [zowe-dev] Zowe API Mec 9:00am [zowe-dev] Zowe ZLC me 12:00pm [zowe-dev] Zowe Onboa	8:00am [zowe-dev] Zebra - Zowe 8:00am [zowe-dev] Zowe Explore 10:00am [zowe-dev] Zowe Develc 11:00am [zowe-dev] System Squa 2:00pm [zowe-dev] Zowe Technic 2:00pm [zowe-tsc] Zowe TSC Me 4:00pm [Open z/OS Enablement]	9:00am [zowe-dev] Core - Web U 9:00am [zowe-dev] Zowe API Mec 9:30am [zowe-dev] Zowe Explore 2:00pm [OMP Marketing Committ
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	11:00am [zowe-dev] Zowe API Me 11:00am [zowe-dev] Zowe CLI Sta	10:00am [zowe-dev] Zowe Archite 11:30am [zowe-dev] Zowe Explor	8:00am [zowe-dev] Zowe CLI Star 9:00am [zowe-dev] Zowe ZLC me 9:30am [zowe-dev] Zowe doc squ 10:00am [zowe-dev] Zowe API Me 10:00am [zowe-dev] Zowe Onboa	9:00am [zowe-dev] Zowe Explore 10:00am [zowe-dev] Zowe Develc 11:00am [zowe-dev] System Squa 2:00pm [zowe-dev] Zowe Technic 2:00pm [zowe-tsc] Zowe TSC Me	9:00am [zowe-dev] Core - Web U 10:00am [zowe-dev] Zowe API Me

Ways to Interact: Open Mainframe Email Distribution Lists

There are “groups” and “subgroups” that you can subscribe to

Primarily used for broadcast of news (not a lot of back-and-forth exchange) - realize you are addressing everyone (zowe-dev has 228 members)


Primary email distribution lists are **zowe-dev** and **zowe-user**. Use in To: field of your email `zowe-dev@lists.openmainframeproject.org`

The screenshot shows the OpenMainframeProject website's 'Your Groups' page. The URL bar at the top displays `https://lists.openmainframeproject.org/groups`, which is circled in red. The page features a sidebar on the left with navigation links: 'Feed', 'Your Groups' (selected), 'Topics', 'Hashtags', 'Your Calendar', and 'Subgroups'. The main content area lists various groups with checkboxes for selection. The 'zowe-dev' group is circled in red. Below it, a box containing the groups 'zowe-tsc', 'zowe-user', 'zowe-zlc', and 'zowe-zlc-private' is also circled in red. The 'Actions' button at the bottom of this box is also circled in red.



Group	Approvals Needed
<input type="checkbox"/> Group	
<input type="checkbox"/> zowe-dev Mod	None
<input type="checkbox"/> omp-announce NMM	None
<input type="checkbox"/> ambitus-discussion	None
<input type="checkbox"/> omp-marketing	None
<input type="checkbox"/> omp-members	None
<input type="checkbox"/> omp-technical	None
<input type="checkbox"/> wg-open-zos-enablement	None
<input type="checkbox"/> zowe-tsc	None
<input type="checkbox"/> zowe-user	None
<input type="checkbox"/> zowe-zlc	None
<input type="checkbox"/> zowe-zlc-private	None

zTrial – The best place to learn!

<https://www.ibm.com/it-infrastructure/z/resources/trial>

 IT Infrastructure

Search



IBM Z

Hardware

OS

Software

Resources

IBM Z software trials

Try the latest IBM Z® software today at no charge, and with no installation required. These no-charge trials are available within two hours for three days. Register and get started today.

Hands-on evaluation of IBM Z software is as easy as 1-2-3

Cloud/API integration

Enterprise DevOps

IT operations

Database and application server

Analytics and machine learning

1

Register

Completely free. No credit card required.

NEW! IBM Z Application Performance Management Connect

IBM Z Application Performance Management Connect (Z APM Connect) provides visibility into mainframe application components in AppDynamics. The application team can isolate the specific subsystem on Z where the problem lies to deliver problem isolation information to the Z team.

Your trial environment includes hands-on

2

Get access

Trial will be available within 2 hours and accessible for 3 days including weekends

Zowe™

Zowe is an open source framework hosted by the Open Mainframe Project™ created to host technologies that benefit the Z platform from all members of the Z community (ISVs, SIs, z/OS practitioners). Zowe offers modern interfaces to interact with z/OS allowing 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 (APIs, CLI, Desktop)

3

Try it out

No installation required. Take a tutorial or just look around.

IBM Service Management Unite (SMU)

This customized user interface provides dashboards to monitor the overall health status of automation domains/nodes in IBM Z environments and to monitor and manage z/OS, network, storage and other subsystems.

Your trial includes hands-on tutorials that explain how to:

Let's talk

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