Zowe Community Roadmap

23PI1

23PI1 Community Roadmap

Planned Under Consideration

22PI4	23PI1	23PI2	23PI3	23PI4

CLI Squad

- Python SDK
- Golden CII Badge
- Complex z/OS Jobs and Files
- Keytar Replacement
- SDK Conformance
- Zowe CLI Participates in App Store
- Zowe CLI on Unix System Services (USS)
- Zowe SDKs Participate in App Store

Explorer Squad

- Multi-Select Support for all Applicable Functions
- Research and Prioritization of Future Explorer Environments
- Updating GUI to use other types of notifications vs all pop ups
- Improve logging and potential output view to better support end users
- Enhancements to Extensibility APIs

IntelliJ Squad

- Zowe Explorer IntelliJ v1
- JCL Highlight MVP
- Zowe Client Kotlin SDK
- CICS Plugin MVP
- Jenkins IntelliJ UI Plugin MVP

Chat Squad

- Event-driven Notifications
- Build a Demo Environment
- Containerized Distribution
- Extensibility
- Golden CII Badge Conformance
- Zowe APIML Integration
- Zowe Web Desktop Integration

23PI1 Community Roadmap

Planned

Under Consideration

22PI4 | 23PI1 | 23PI2 | 23PI3 | 23PI4

API Squad

- Identify Federation
- API Portal
- Enable API ML to validate Conformance
- Improve Fault Tolerance Testing
- Simplify Support of Zowe
- Observability for API ML
- Improve Obboarding of Internal APIs
- Seamless Upgrade to API ML

Web UI Squad

- Zowe App Store
- Switch tn3270-ng2 to use ts-term
- Desktop Shortcut and Folder Support
- Document Desktop Error Codes in v2
- App Server Uses defaults.yaml
- Web Browser App Enhancements
- Migrate to Webpack 5
- App2app Communication Toolkit
- Angular File Tree Major Vers Upgrade
- DB Browser App Release
- Get CII Best Practices Gold Badge
- File Transfer App
- App-in-App Embedding

System Squad

- Improvements to Release Automation
- Expand Build and Test Infrastructure
- Use Sigstore to Sign Artifacts

3

CLI Squad Roadmap

Problem (What exactly are we solving?)	Solution (How are we solving the problem?)	Planned Timeline						
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Zowe Client SDK: Python Consumers of the SDK have requested enhancements to one of the languages (Python)	Further enhance the Python Zowe Client SDK to meet consumer needs.	22Q3	22Q4					
Golden CII Badge The Zowe Project has not earned the Golden CII Badge / a requirement from LF/OMP that ensures the Open Source project satisfies FLOSS (Free/Libre & &Open Source Software) Best Practices criteria	Review requirements and take necessary actions to satisfy them for the gold badge level.	22Q3	22Q4	23Q1				
Complex z/OS Jobs and z/OS Files commands Customers are looking for CLI commands that perform more complex (jobs & files) tasks to reduce scripting and make interactive CLI commands more efficient	Introduce several new CLI commands capable of performing multiple tasks in a single command.	22Q3	22Q4	23Q1				
Keytar Replacement Mainframe customers demand trustworthy storage of secure values in Zowe CLI. With the sunset of the Atom organization who supplied the Keytar package, we would require an alternative for secure credential storage.	Implement a suitable replacement to the Keytar package with minimal impact to our end users.			23Q1	23Q2	23Q3		
SDK Conformance Mainframe developers are interested in extending the existing SDKs in order to create applications for their services.	New Services (like CICS SDK) New Programming languages (like Ruby SDK)				23Q2	23Q3	23Q4	
Zowe CLI and Client SDK App Store Participation Zowe Consumers can't quickly/easily (see what's available) locate & install ALL of the available Zowe CLI conformant plug-ins AND the supported Zowe Client SDKs	Zowe CLI participates in the Zowe App Store.(22Q3 to 23Q4) Zowe SDKs participate in the Zowe App Store (23Q4 to 24xx)	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Zowe CLI on Unix System Services (USS) Mainframe customers like to experiment with Zowe w/o requiring desktop software (i.e. SYSPROGS want to run CLI commands on z/OS) as part of their experimentation or enterprise use with Zowe CLI	Certify and document how to use of Zowe CLI on z/OS (USS). Requires Daemon testing (USS executable) / zLinux daemon works. Would require in-memory (or other?) credential management.			23Q1	23Q2	23Q3	23Q4	

Explorer Squad Roadmap

Problem (What exactly are we solving?)	Solution (How are we solving the problem?)	Planned Timeline						
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Multi-selection support for all applicable functionalities Users would like more tree view actions in Zowe Explorer to have multi-select functionality.	Multi-Selection available in all three tree views in Zowe Explorer.	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Research and Prioritize Zowe Explorer Supported Environments Users are submitting issues about Zowe Explorer not working in different environments.	Prioritize work to support additional environments requested by users, this will require research and depending on the research we will decide if support is feasible.	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Updating GUI to use other types of notifications vs all pop ups Users are distracted by the large number of pop up notifications from Zowe Explorer.	Reduced number of pop up notifications from Zowe Explorer.	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Improve logging and potential output view to better support end users Users are sometimes challenges to troubleshoot problems in Zowe Explorer	Improved logging to help Zowe Explorer users troubleshoot their problems.	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Enhancements to Extensibility APIs Zowe Explorer extenders still find it difficult to develop their extensions, leading to a fewer number of available extensions.	A more robust set of extensibility APIs to create an easier experience for Zowe Explorer extenders, prioritized based on our existing backlog of requested APIs.	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1

Intellij Squad Roadmap

Expected

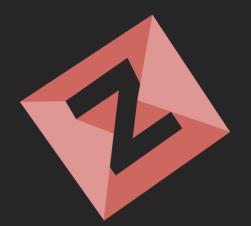| Problem (What exactly are we solving?)	Solution (How are we solving the problem?)	Planned Timeline						
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Zowe Explorer IntelliJ v1 There is no LTS version of the Zowe Explorer IntelliJ yet. It is supposed to set v1 as the LTS release.	Implement new features, such as TSO CLI, encoding support, etc.	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
JCL Highlight MVP There is no JCL Highlight in IntelliJ yet. It will introduce the new plugin.	Implement an MVP of the plugin	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Zowe Client Kotlin SDK There is no Zowe Client Kotlin SDK	Release publicly the first binary of the Kotlin SDK	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
CICS Plugin MVP There is no UI for CICS resources and interactions with them using IntelliJ platform.	Implement an MVP of the plugin	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Jenkins IntelliJ UI Plugin MVP There is no proper UI to work with Jenkins through the IntelliJ with mainframe-specific functions.	Implement an MVP of the plugin	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1

Chat Squad Roadmap

Problem (What exactly are we solving?)	Solution (How are we solving the problem?)	Planned Timeline						
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Event-driven Notifications Chat use case will need to be event-driven and therefore triggered by event notification.	Building server-side capability for receiving push events and a common model for describing them.	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Build a Demo Environment We would like to target the OMP's existing Slack user base for feedback on Zowe Chat.	Create a "production-like" deployment of Zowe Chat which runs in OMP Slack, and is backed by open infrastructure. Preferably OMP.	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Containerized Distribution (x86, x390x) Zowe Chat may not need to run on bare metal MF once APIML authorization is complete. Containers can make install easier and more flexible in this case.	Building a containerized deployment, following Zowe's existing model w/ Kustomize.	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Extensibility Chat use cases will require extensibility to enable the use of customer commands and services.	Create a Zowe Chat Extension Guide, Sample Extension, and a Conformance Program	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Golden CII Badge Conformance Certifying release quality for Zowe Chat by adhering to best practices.	Investigating and implementing Golden CII badge requirements	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Zowe APIML Integration Chat cannot leverage any of the benefits of Zowe API ML.	Building an APIML Authn / Authz option and making Zowe chat a conformant APIML Web Service.	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Zowe Web Desktop Integration Zowe Desktop users want the flexibility to use Zowe Chat from the desktop.	Make Zowe Chat a conformant App Framework plugin, or build a thin conformant plugin for Chat.	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1

API Mediation Layer Squad Roadmap

Expected

Problem (What exactly are we solving?)	Solution (How are we solving the problem?)	Planned Timeline						
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Identity Federation Customers need to integrate the mainframe with their existing SSO	Providing support for the OIDC protocol	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
API Portal Customers need better awareness and easier access to find available APIs including their own internal APIs	Updated API Catalog with enhanced information and simplified deployment	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Enable API ML to Validate Conformance The users, extenders and Zowe can't verify the claims in the conformance program	Provide endpoint to verify for running and onboarded service whether it fulfils conformance criteria	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Improve Fault Tolerance Testing The problems related to fault tolerance are found in the user's systems.	Improve the test suite to contain more tests on how Zowe behaves in different fault scenarios and then fixing the issues.	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Simplify Support of Zowe Currently it's difficult for users to self-analyze and fix the configuration of Zowe	Improved tooling and documentation to allow Zowe users to self-diagnose issues with Zowe configuration.	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Observability for API ML The customers need to integrate the mainframe APIs into their wider observability effort.	Implementing the integration of the API ML traffic data with popular solutions such as Splunk or ELK stack	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Improve Onboarding of Internal APIs The users need to be able to easily onboard their own custom internal infrastructure APIs	Update wizard in the API Catalog, Add more functionality for the administrator about onboarded services.	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1

API Mediation Layer Squad Roadmap

Problem (What exactly are we solving?)	Solution (How are we solving the problem?)	Planned Timeline						
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Seamless Upgrade to API ML The update od Zowe and especially API ML can break the extensions of the API ML and break the configuration	Provide customers with alternative path that does the upgrade	22Q3	22Q4	23Q1	23Q2	**23Q3**	23Q4	24Q1
True Dynamic Discovery The current discovery service is just a registry where someone needs to register the services.	Explore the available services and landscape and discover all the services that can be onboarded to the API ML.	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	**24Q1**
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1

Web UI Squad Roadmap

Expected

Problem (What exactly are we solving?)	Solution (How are we solving the problem?)	Planned Timeline						
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Zowe "app-store" via off-the-shelf package managers Administrators need to use multiple tools to see, manage, upgrade, and install apps in each Zowe instance.	Introduce a Zowe App-Store using popular package managers.	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Switch tn3270-ng2 to use ts-term The current process for maintaining the Zowe Desktop Terminal is complex for the Zowe WEB UI Squad	Modify the existing libraries / dependencies (i.e. switch tn3270-ng2 to use ts-term"	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Shortcut and folder support for Desktop The current location of Desktop plugins that include app-to-app communication is not as effective and efficient as it can be, resulting in less-powerful performance	Modify (if appropriate), package and deliver the hackathon code that creates folders and groups together applicable Desktop plugins and shortcuts	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Document desktop error codes in v2 Customers have difficulty understanding messages & codes associated with the Zowe Desktop	Documenting the Zowe Desktop INFO, WARN and ERROR codes in the Zowe V2 documentation	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
App Server Config in default.yaml via Config Manager The existing app server configuration is overly complex.	Migrate the app server configuration to the less complex, Zowe standardized yaml configuration which leverages the Zowe configmgr	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Web browser app enhancements Desktop users who access non-native websites must rekey the URLs each time.	Introduce a capability to save websites as if they were Zowe Apps	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Migration to Webpack 5 Audits reveal that some packages we use are limited in upgrade capacity by webpack 4. Migrating to webpack 5 will help us with both security and maintenance.	Completed migration to webpack 5.	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1

Web UI Squad Roadmap

Problem (What exactly are we solving?)	Solution (How are we solving the problem?)	Planned Timeline						
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
App-2-App Communication Toolkit Zowe desktop app users don't have an easy way to see and understand the individual "app2app" capabilities that are available to them.	Specific solution is still "to be determined".	22Q3	22Q4	**23Q1**	23Q2	23Q3	23Q4	24Q1
Angular File Tree major version upgrade Dependent Software limitations associated with back-leveled version	Upgrade "Angular File Tree" to the next major version	22Q3	22Q4	**23Q1**	23Q2	23Q3	23Q4	24Q1
DB Browser app release Zowe consumers are interested in database tooling for the Zowe desktop and the planned DB Browser App is not ready for validation	Deliver capabilities in support of MVP and introduce a technical preview for the DB Browser App	22Q3	22Q4	**23Q1**	23Q2	23Q3	23Q4	24Q1
Get CII Best Practices Gold Badge Certifying release quality for Zowe Web UI by adhering to best practices.	Complete the backlog of requirements for Golden CII badge.	22Q3	22Q4	**23Q1**	**23Q2**	**23Q3**	23Q4	24Q1
File Transfer App Need to Support secure file and dataset transfer between z/OS and your computer without requiring FTP.	Deliver an application that supports secure file transfer between z/OS and your PC.	22Q3	22Q4	23Q1	**23Q2**	**23Q3**	23Q4	24Q1
App-in-App Embedding Currently no way to embed one app within another in the same view.	One app can be positioned inside of a portion of another app's viewport, without including an extra window in the process.	22Q3	22Q4	23Q1	23Q2	**23Q3**	23Q4	24Q1
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1

System Squad Roadmap

Problem (What exactly are we solving?)	Solution (How are we solving the problem?)	Planned Timeline						
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
Improvements to Release Automation Releases still have gaps of manual processing that interfere with delivery	Expanding the scope of the current release automation suite	22Q3	**22Q4**	**23Q1**	23Q2	23Q3	23Q4	24Q1
Expand Build and Test Infrastructure Configure additional MF infrastructure to support demos, labs, and test requirements.	Working with OMP to define and validate systems.	22Q3	22Q4	**23Q1**	**23Q2**	**23Q3**	23Q4	24Q1
Use Sigstore to Sign Artifacts Customers need the ability to validate the artifacts delivered with Zowe builds, adhering to the latest industry standards using digital signing	Evaluate how to shift our digitally signed artifacts from opengpg to sigstore, and implementing the change	22Q3	22Q4	23Q1	**23Q2**	**23Q3**	23Q4	24Q1
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1
		22Q3	22Q4	23Q1	23Q2	23Q3	23Q4	24Q1