Zowe Community Roadmap

CY22 Q4

CY22 Q4 Community Roadmap

Planned **Under Consideration**

22Q3	22Q4	23Q1	23Q2	23Q3

CLI Squad

- Complex z/OS Jobs and Files Cmds
- Golden CII Badge
- Zowe Client SDK: Python
- Zowe CLI Participates in Zowe App Store
- In-memory Credential Management & Identity Tokens
- Zowe CLI Containerization
- Zowe SDKs Participate in Zowe App Store
- Zowe CLI on Unix System Services (USS)

Explorer Squad

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

Chat Squad

- Extensibility
- Event-driven Notifications
- Build a Demo Environment
- Golden CII Badge Conformance
- Zowe APIML Integration
- Zowe Web Desktop Integration
- Containerized Distribution (x86, x390x)

2

22PI3 Community Roadmap

Planned

Under Consideration

22Q3	22Q4	23Q1	23Q2	23Q3

API Squad

- Identify Federation
- Seamless upgrade to API ML
- Enable API ML to validate Conformance
- API Portal
- True Dynamic Discovery
- Report API ML State to MF SYSPROG

App Framework Squad

- Document V2 App Server Error Codes
- Desktop Shortcut and Folder Support
- Switch tn3270-ng2 to use ts-term
- Document V2 Desktop Error Codes
- Zowe Desktop App Store
- Web Browser App Enhancements
- Angular File Tree version upgrade
- DB Browser App Release
- App Server Config via ConfigMgr
- Migrate to Webpack 5
- App2App Communication Toolkit
- Get CI 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

CLI Squad Roadmap

Problem (What exactly are we solving?)	Solution (How are we solving the problem?)	Planned Timeline						
		22Q2	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4
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.	22Q2	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4
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.	22Q2	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4
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.	22Q2	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4
Zowe 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.(2022 Q3 to 2022 Q4) Zowe SDKs participate in the Zowe App Store (2022 Q4 to 2023 TBD)	22Q2	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4
In-memory Credential Management & Identity Tokens Some customers are not able to install the SCS for their credentials management OR prefer alternatives for credential management in support of internal policies	Provide customers with an alternative that securely (prompts for and) stores all secure properties w/o requiring the SCS.	22Q2	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4
Zowe CLI Containerization Customers want to invoke CLI commands in automation/orchestration tools like Jenkins w/o having to install all of the pre-requisite technology on their desktop or server and do not have the knowledge to configure a Docker file from scratch. OR Simply, it's too difficult to create Zowe CLI-enabled Jenkins pipelines	Provide a Docker file image [that includes the configured prerequisite technology which can be customized for images and used for pipelines. Requires Daemon testing (USS executable) / zLinux daemon works. Would require in-memory (or other?) credential management.	22Q2	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4
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.	22Q2	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4

Explorer Squad Roadmap

Expected

Problem (What exactly are we solving?)	Solution (How are we solving the problem?)	Planned Timeline						
		22Q2	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4
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			
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			
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.			22Q4	23Q1			
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.			22Q4	23Q1	23Q2		
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	

Chat Squad Roadmap

Expected

Problem (What exactly are we solving?)	Solution (How are we solving the problem?)	Planned Timeline						
		22Q2	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4
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			22Q4				
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.			22Q4	23Q1			
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.			22Q4	23Q1			
Golden CII Badge Conformance Certifying release quality for Zowe Chat by adhering to best practices.	Investigating and implementing Golden CII badge requirements				23Q1	23Q2		
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.					23Q2	23Q3	
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.					23Q2	23Q3	
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.						23Q3	

API Mediation Layer Squad Roadmap

Problem (What exactly are we solving?)	Solution (How are we solving the problem?)	Planned Timeline						
		22Q2	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4
Identity Federation Customers need to integrate the mainframe with their existing SSO	Providing support for the OIDC protocol		22Q3	22Q4	23Q1			
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				23Q1			
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	22Q2	22Q3	22Q4	23Q1	23Q2		
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			22Q4	23Q1	23Q2		
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.					23Q2	23Q3	
Report API ML State to MF System Programmer The System Programmers can't automate the reaction to API ML going down	Publish properly the messages about the start and stop of the API ML						23Q3	
Supportability of Zowe Getting the information to support properly the Zowe is complicated and unfriendly	Update the tools, configuration and documentation to simplify the work.							23Q4

App Framework Squad Roadmap

Problem (What exactly are we solving?)	Solution (How are we solving the problem?)	Planned Timeline						
		22Q2	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4
Document app-server error codes in v2 Customers have difficulty understanding messages & codes associated with the Zowe App Server	Documenting the Zowe App Server INFO, WARN and ERROR codes in the Zowe V2 documentation	22Q2	**22Q3**	**22Q4**	23Q1	23Q2	23Q3	23Q4
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	22Q2	22Q3	**22Q4**	23Q1	23Q2	23Q3	23Q4
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"	22Q2	22Q3	**22Q4**	23Q1	23Q2	23Q3	23Q4
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	22Q2	22Q3	**22Q4**	23Q1	23Q2	23Q3	23Q4
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.	22Q2	22Q3	**22Q4**	23Q1	23Q2	23Q3	23Q4
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	22Q2	22Q3	22Q4	**23Q1**	23Q2	23Q3	23Q4
Angular File Tree major version upgrade Dependent Software limitations associated with back-leveled version	Upgrade "Angular File Tree" to the next major version	22Q2	22Q3	22Q4	**23Q1**	23Q2	23Q3	23Q4

App Framework Squad Roadmap

Problem (What exactly are we solving?)	Solution (How are we solving the problem?)	Planned Timeline						
		22Q2	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4
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				23Q1			
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				23Q1			
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.					23Q2		
App2App 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.	To be determined.					23Q2		
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.				23Q1	23Q2	23Q3	
File Transfer App	Deliver an application that support secure file transfer between z/OS and your PC.					23Q2	23Q3	
App-in-app embedding for app2app workflows within same view	Enable an app to run inside another app's viewport, without an extra window, and ideally with the ability to also control that embedded app's behavior.						23Q3	

System Squad Roadmap

Problem (What exactly are we solving?)	Solution (How are we solving the problem?)	Planned Timeline						
		22Q2	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4
Improvements to Release Automation Releases still have gaps of manual processing that interfere with delivery	Expanding the scope of the current release automation suite	22Q2	22Q3	**22Q4**	**23Q1**	23Q2	23Q3	23Q4
Expand Build and Test Infrastructure Configure additional MF infrastructure to support demos, labs, and test requirements.	Working with OMP to define and validate systems.	22Q2	22Q3	22Q4	**23Q1**	**23Q2**	**23Q3**	23Q4
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 digitially signed artifacts from opengpg to sigstore, and implementing the change	22Q2	22Q3	22Q4	23Q1	**23Q2**	**23Q3**	23Q4
		22Q2	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4
		22Q2	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4
		22Q2	22Q3	22Q4	23Q1	23Q2	23Q3	23Q4