



Zowe Community Roadmap

23PI4





23PI4 Community Roadmap

Planned

Under Consideration

23PI3

23PI4

24PI1

24PI2

24PI3

CLI
Squad

Keytar Replacement

Enhancing the Python SDK

SDK Conformance and LTS Status

V3 Pre-release

High-Priority Defects/Enhancements

Review and Enhance System Tests

Gold Open SSF Best Practices Badge

V3 Pre-Release Availability

Add More Functionality to Jobs Tree View

Improve Error Handling

Golden CII Badge

V3 Release Work

High-Priority Defects/Enhancements

Improve UX for Token Authentication

CICS Repo and Publish-Ready

Improve Experience for API ML Sessions in Zowe Explorer

Zowe Explorer V3 GA

Explorer
Squad

Event-Driven Notifications

Containerized Distribution

Extensibiity

Golden CII Badge Conformance

Build a Demo Environment

API Mediation Layer Integration

Web Desktop Integration

Chat
Squad



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23PI3

23PI4

24PI1

24PI2

24PI3

IntelliJ
Squad

Zowe Explorer for IntelliJ Code Coverage Increase to 50% +

Zowe Explorer for IntelliJ Usage of API Mediation Layer

Zowe zDevOps plugin for Jenkins v0.2.0 Release

Zowe DevOps PlugIn for Jenkins Code Coverage Increase to 50% +

JCL Plugin for IntelliJ IDEA v0.2.0

Zowe Explorer for IntelliJ IDEA v1.1.1, v1.1.2, v1.1.3

Zowe Clients Kotlin SDK v0.5.0 – Propose as GA Solution

Zowe Explorer for IntelliJ IDEA – Become a Zowe Core Component

CICS Plugin for IntelliJ IDEA MVP – Basic Interactions and Tree

LSP support for JCL plugin starting with IntelliJ IDEA v2023.2

COBOL Plugin MVP

IntelliJ Plugin for Jenkins UI v0.1.0 Release

UI Enhancements and Templating

Multi-Tenancy API ML Deployments

V3 Support Spring Boot 3.1

Improved Logging for API ML

V3 Support Java 17

Spring Cloud Gateway Proxy

Improve Fault Tolerance Testing

SMF Records Creation

Observability for API ML

Improve Onboarding of Internal APIs

API
Squad



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Planned

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23PI3

23PI4

24PI1

24PI2

24PI3

Zowe Version 3

ZEN First PI Goals

Migrate to Angular 16

Migrate to webpack 5

Zowe Server Setup JCL Overhaul

Standardize HTTPS Configuration

Switch tn3270-ng2 app to use tterm

Automated upgrade via ZWE

Simplify AT-TLS setup

Improve the logging experience

Web browser app enhancements

Document desktop error codes in v2

Desktop shortcut and folder support

DB Browser app release

File Transfer App

app2app communication toolkit

App-in-app embedding

Marist Mainframe – Verify z/OS 2.5

Complete Onboarding Materials

Complete V3 Branching and Builds

Review Test Cases

Zwe Install/Config Improvements


Supply Chain Security V3


Expand Build and Test Infrastructure

Use Sigstore to Sign Artifacts

Web UI
Squad

System
Squad

<div></div> <div>Problem (What exactly are we solving?)</div>	Solution (How are we solving the problem?)	CLI Squad						
		23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
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.	Release a suitable replacement to the Keytar package with minimal impact to our end users.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Enhancing the Python SDK (Zowe Client Mentorship Opportunity) Consumers of the Python SDK are requesting enhancements, including support for Zowe V2 team configuration files	Leverage the mentorship program to deliver select enhancements to the existing SDK	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
SDK Conformance and LTS Status 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	24Q1	24Q2	24Q3	24Q4
V3 Pre-Release Zowe V3 is right around the corner, planned for early in CY24. In order to ensure a smooth delivery without delays, each squad needs to prepare with some pre-release activities.	Squad will create the vNext branch in the Zowe CLI repository, migrate the Imperative package to the monorepo and remove the deprecated V1 profile functionality.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
High-Priority Defects and Enhancements Ensuring that Zowe consumers continue to receive new value and increased stability with each release.	Squad will deliver select prioritized features and bug fixes as well as up-voted community requests, as allowed by capacity for the releases within the quarter.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Review and Enhance System Tests As the Zowe CLI becomes more and more widely adopted for critical work, consumers expect and demand the highest level of quality possible.	The squad will inventory the existing system tests, identify any functional gaps and add new tests to eliminate those gaps. If possible will try to identify or create opportunities for contributions from the broader community.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Golden OpenSSF Best Practices Badge The Zowe Project has not earned the Golden CII Badge / a requirement from LF/OMP that ensures the Open Source project satisfies FLOSS Best Practices criteria	Review requirements and take necessary actions to satisfy them for the gold badge level.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
		23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
		23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
		23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4


<div>  <div> Problem (What exactly are we solving?) </div> </div>	<div> Solution (How are we solving the problem?) </div>	Explorer Squad						
		23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
V3 Pre-Release Early Availability Extenders will need to be aware of breaking changes in the upcoming major release of 3.0.0.	Publish a pre-release of v3 with documentation of breaking changes so Extenders will be able to begin their adoption early.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Add More Functionality to Jobs Tree View Users would like a comparable experience working with JES files, Zowe Explorer doesn't have a lot of functionality in that tree compared to others.	Add more functionality to jobs in the tree, ie. local sorting, filtering, and more.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Improve Error Handling Users would like error messages returned to be relevant to the error encountered and describe the issue clearly.	Make sure all errors are being handled appropriately and make sure the error message returned is helpful and understandable to the user.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
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.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Release V3 Work Continuation of critical work that needs to be completed before the V3 release goes GA in March 2024.	Committed: Add UI for managing local storage history data for USS/DS/Jobs, Minimize the activate() function to have less chance of failure, Stretch: Group common method into Singleton classes, Use VSCode.FileSystemProvider for content downloaded from mainframe, Forward all extra properties to the SDK calls	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
High-Priority Defects and Enhancements Ensuring that Zowe consumers continue to receive new value and increased stability with each release.	Squad will deliver select prioritized features, bug fixes as technical debt items as allowed by capacity for the releases within the quarter.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Improve UX for Token Authentication Design improvements, functional and usability enhancements, bug fixes to improve the overall user experience for authentication from Explorer	Stretch: Support logging in to multiple APIML instances per config file, Prevent users from storing wrong credential type for session, Search operation does not prompt for login for APIML profile, Expand session does not prompt for login for APIML profile	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
CICS Repo and Publish-Ready	Complete move to cics-for-zowe-client-repository with CLI plugin and be publish-ready	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Improve Experience for Using API ML Sessions in Zowe Explorer Many users of Zowe Explorer aren't familiar with or are unaware of authentication methods supported by Zowe Explorer, like token authentication, SSO, & MFA.	For users of the API ML with SSO and MFA, deliver the enhancements needed to create a first-class experience.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Zowe Explorer V3 GA Zowe V3 is planned for GA release in March, 2024	Prepare a plan for dependency & engine updates, enhancements, migration tactics, and other items needed for our v3 GA release.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4


<div></div> <div>Problem (What exactly are we solving?)</div>	Solution (How are we solving the problem?)	Chat Squad						
		23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
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.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
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.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
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	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Golden CII Badge Conformance Certifying release quality for Zowe Chat by adhering to best practices.	Investigating and implementing Golden CII badge requirements	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
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.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
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	23Q4	24Q1	24Q2	24Q3	24Q4
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	23Q4	24Q1	24Q2	24Q3	24Q4
		23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
		23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
		23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4

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		23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Zowe Explorer for IntelliJ Code Coverage Increase to 50% + Better code coverage for automated testing will help deliver higher quality with fewer defects.	Create new automated testing to create at least 50% code coverage.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Zowe Explorer for IntelliJ Usage of API Mediation Layer Supporting the API ML enables a better user experience, a stronger security posture, and a more integrated Zowe component overall	Investigate, how to introduce possibility to work with a mainframe using API ML	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Zowe zDevOps plug-in for Jenkins release v0.2.0 New features including classic freestyle jobs, new declarative steps, etc. to be implemented and released as a new release of the Jenkins plugin	Implement the remaining features and release v0.2.0 of the Zowe zDevOps plug-in for Jenkins	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Zowe zDevOps plug-in for Jenkins Code Coverage Increase to 50% + Better code coverage for automated testing will help deliver higher quality with fewer defects.	Create new automated testing to create at least 50% code coverage.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
JCL Plugin for IntelliJ IDEA v0.2.0 The JCL plugin is lacking some key features that warrant development and a new release for delivery.	Prepare, test and release the new minor version of the plug-in to introduce live templates, JES statements and auto-completion	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Zowe Explorer for IntelliJ IDEA v1.1.0, v1.2.0, v1.3.0 Releases New minor releases will provide access to many new feature enhancements.	Prepare, test and release the new version of the plug-in.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Zowe Clients Kotlin SDK v0.5.0 – Propose as GA Solution		23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Zowe Explorer for IntelliJ IDEA – Become a Core Component Enable the IntelliJ Explorer to become recognized as a core component and supported by Zowe support providers.	Define and meet the requirements for the plug-in to become a core component	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
CICS Plugin MVP – Basic Interactions and Tree IntelliJ users need to have easy access to CICS resources through their IDEs.	Set up the environment to work with CICS, implement the new plugin as an extension to the Zowe Explorer plug-in for IntelliJ IDEA, implement a connection to the CICS through CMCI API, implement tree view of the CICS resources	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
LSP Support for JCL plugin starting with IntelliJ IDEA v2023.2 JetBrains team announced that starting with v2023.2, IntelliJ IDEA will include LSP support. This technical currency feature will leverage the LSP in place of our own ANTLR/PSI implementation for highlighting.	Investigate and implement a new version of the Zowe JCL plug-in for IntelliJ IDEA with LSP support	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4



<div></div> <div>Problem</div> <div>(What exactly are we solving?)</div>	Solution	API ML Squad						
		23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
<div>API Catalog UI Enhancements and Templating</div> <div>Adopters want to have easy access to the available APIs and easily find what they need. This includes their own internal APIs.</div>	Update API Catalog, simplify deployment and support wider amount of ways to show the information about APIs	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
<div>Multi-Tenancy API ML Deployments</div> <div>Authenticating Zowe users across Sysplex and security domains</div>	Route users to the relevant sysplex based on the type of request and retrieve data on existing and available Sysplexes	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
<div>V3 Support for Sprint Boot 3.1</div> <div>Zowe V3 must be on a Spring Boot baseline of 3.1 to be in support.</div>	The objective is to upgrade SpringBoot to at least 3.1.x version for Zowe V3.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
<div>Improved Logging for the API ML</div> <div>Currently it's difficult for Users to self-analyze and fix the configuration of Zowe</div>	Provide good quality logs with meaningful and actionable information	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
<div>V3 Support for Java 17</div> <div>API ML depends heavily on the spring framework. Spring 6 drops support for java versions prior to 17.</div>	The objective for the API ML is to use java 17 in the toolchain and produce artifacts that run on this runtime.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
<div>Spring Cloud Gateway Proxy</div> <div>Current Netflix ZUUL gateway is no longer actively developed</div>	Deliver a new gateway built upon the Spring Cloud Gateway	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
<div>Improve Fault Tolerance Testing</div> <div>The problems related to fault tolerance are found in the user's systems.</div>	Improve the test suite to contain more tests on how Zowe behaves in different fault scenarios and then fixing the issues.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
<div>SMF Record Creation</div> <div>Missing SMF records for some types of authentication events</div>	Create SMF records for each authentication with API ML JWT or PAT with details such as timestamp, mainframe identity, and form of the provided authentication(JWT, PAT,...)	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
<div>Observability for the API ML</div> <div>The customers need to integrate the mainframe APIs into their wider observability effort</div>	Implementing the integration of the API ML traffic data with popular solutions such as Splunk or ELK stack	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
<div>Improve Onboarding of Internal APIs</div> <div>API ML users need to be able to easily onboard their own custom internal infrastructure APIs</div>	Update wizard in the API Catalog, Add more functionality for the administrator about onboarded services.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4

<div></div> <div>Problem (What exactly are we solving?)</div>	Solution (How are we solving the problem?)	Web UI Squad						
		23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
WebUI Version 3 Zowe V3 is planned for 24Q1 and the Web UI squad has certain preparation milestones that must be achieved in each PI.	Create in a Community repository new page for the squads to share upcoming and planned changes for vNext	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
ZEN First PI Goals ZEN will simplify Zowe installation and configuration for mainframe admins. This feature represents planned incremental improvements for 23PI3.	Finish ZEN for single admin, basic certificate setup, prompting for YAML (HTML forms and editor), distribution for Windows/Mac/Linux, support offline PAX upload, license agreement for direct download from jfrog, documentation	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Migrate 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	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Migrate to angular 16. We are currently on angular 12 and should move to 16 given the opportunity, to remain as current as possible.	Completed migration to angular 16	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Zowe Server Setup JCL Overhaul Users who scale out software on z/OS have been requesting that we be more JCL-centric in our approach to installation.	Zowe Server configuration JCL is made visible at rest, visible as output of zwe, and overhauled to utilize rexx-configmgr for input validation.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Standardize HTTPS Configuration for all Zowe Servers The built-in TLS capabilities of each Zowe server varies considerably; it can vary by capability, but also by ways in which the capabilities are configured.	Zowe.yaml is updated to support default HTTPS configuration and component-level overrides, schema is updated to reflect these updates, and each of the server uses these configuration values.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
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”	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Create Automated Upgrade via ZWE Upgrading Zowe can be confusing and frustrating.	Create an easier way for customers to understand what actions are needed when upgrading from one Zowe release to another.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Simplify AT-TLS Setup Zowe's AT-TLS setup is too complex.	Have all servers be able to turn AT-TLS on/off with a single, standardized configuration section within zowe.yaml	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Improve Installation/Startup Logging Experience Customers need a consistent, appropriate, actionalble and manageable logging experience for customers.	Create the appropriate log volume and content for informational messages, warning and errors to make it easier for users to locate the messages they need and take appropriate actions.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4

 <div> Problem (What exactly are we solving?) </div>	<div> Solution (How are we solving the problem?) </div>	Web UI Squad						
		23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
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	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
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	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
Desktop shortcut and folder support 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	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
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	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
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.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
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”.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
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.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
		23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
		23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
		23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4

<div>  <div> <div>Problem</div> <div>(What exactly are we solving?)</div> </div> </div>	<div> <div>Solution</div> <div>(How are we solving the problem?)</div> </div>	System Squad						
		23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
<div>Marist Mainframe – Verify z/OS 2.5</div> <div>Our backend systems will be undergoing a operating system update, going from z/OS 2.3 and 2.4 to 2.5 and later 3.1. This work will happen outside the community. We should verify that the systems continue to work as expected post-upgrade.</div>	Validation that our Marist systems continue to run properly as expected after the upgrade to 2.5.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
<div>Complete Onboarding Materials</div> <div>We may have new members joining the Systems squad, and should have prepared materials ready which they can use as a reference during the onboarding processes.</div>	Onboarding materials are available for new members.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
<div>Complete V3 Branching and Builds</div> <div>We need to make build and branching updates in preparation for the V3 release.</div>	Checklist of items for V3 preparation has been completed including V3 FMIDs, install packaging and more.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
<div>Review Test Cases</div> <div>Need to ensure the highest quality for high-impact interactions between Zowe components.</div>	Existing system tests have been reviewed, areas for improvement have been identified, and new system tests have been developed. As needed.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
<div>Zwe Config Improvements</div> <div>General effort to simplify the installation and configuration of Zowe.</div>	Zwe improvements including elimination of the existing Node.js dependency and conversion of remaining zowe-install-packaging tools (fconv, curl, jq)	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
<div>Supply Chain Security V3</div> <div>Research Only – what can be done to improve supply chain security?</div>	Begin research and document potential improvements that can be made to supply-chain security	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
<div>Expand Build and Test Infrastructure</div> <div>Configure additional MF infrastructure to support demos, labs, and test requirements.</div>	Working with OMP to define and validate systems.	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
<div>Use Sigstore to Sign Artifacts</div> <div>Customers need the ability to validate the artifacts delivered with Zowe builds, adhering to the latest industry standards using digital signing</div>	Evaluate how to shift our digitally signed artifacts from opengpg to sigstore, and implementing the change	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
		23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4
		23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	24Q4