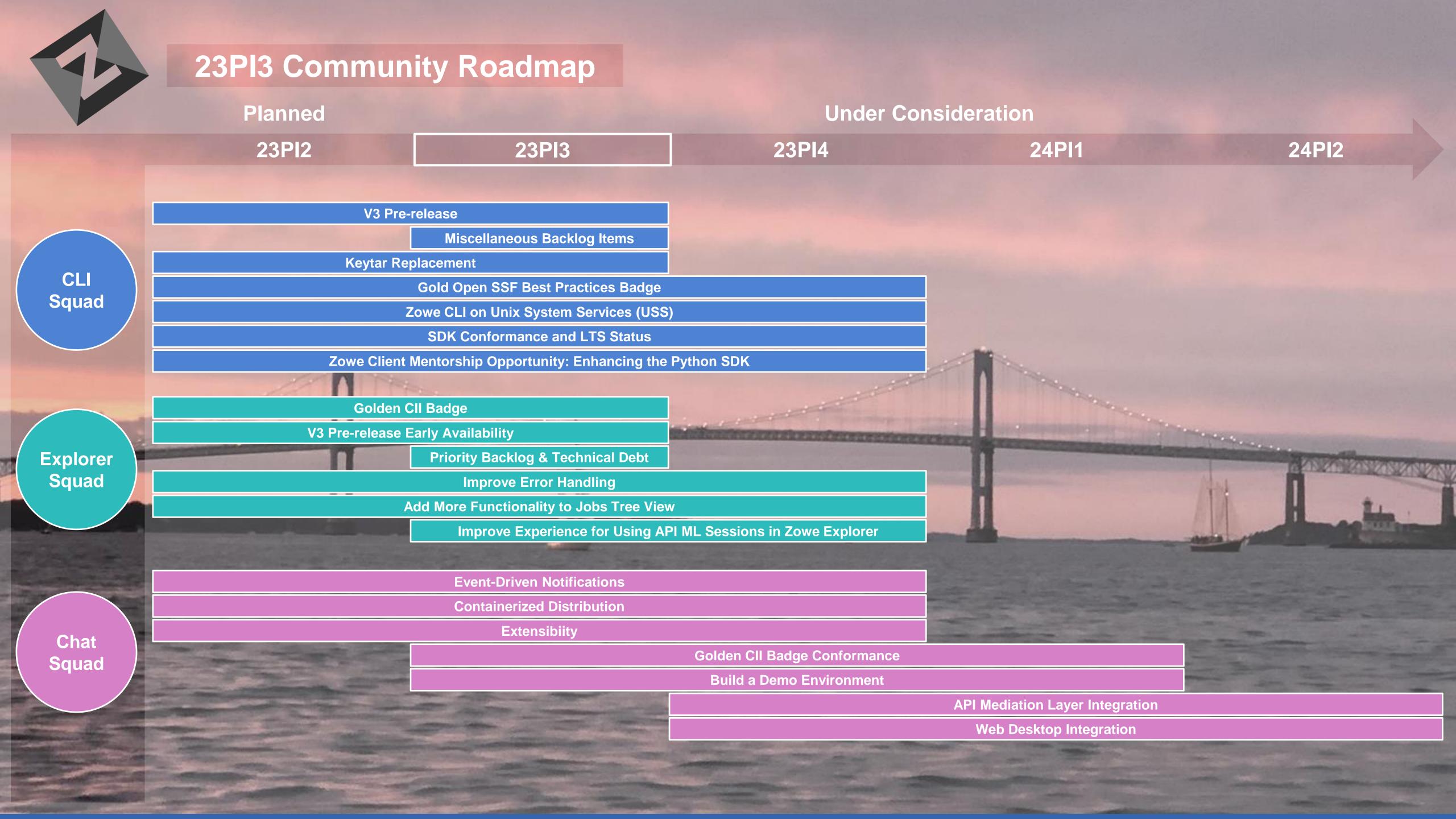
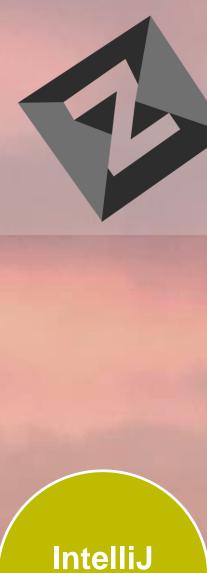


Zowe Community Roadmap

23PI3



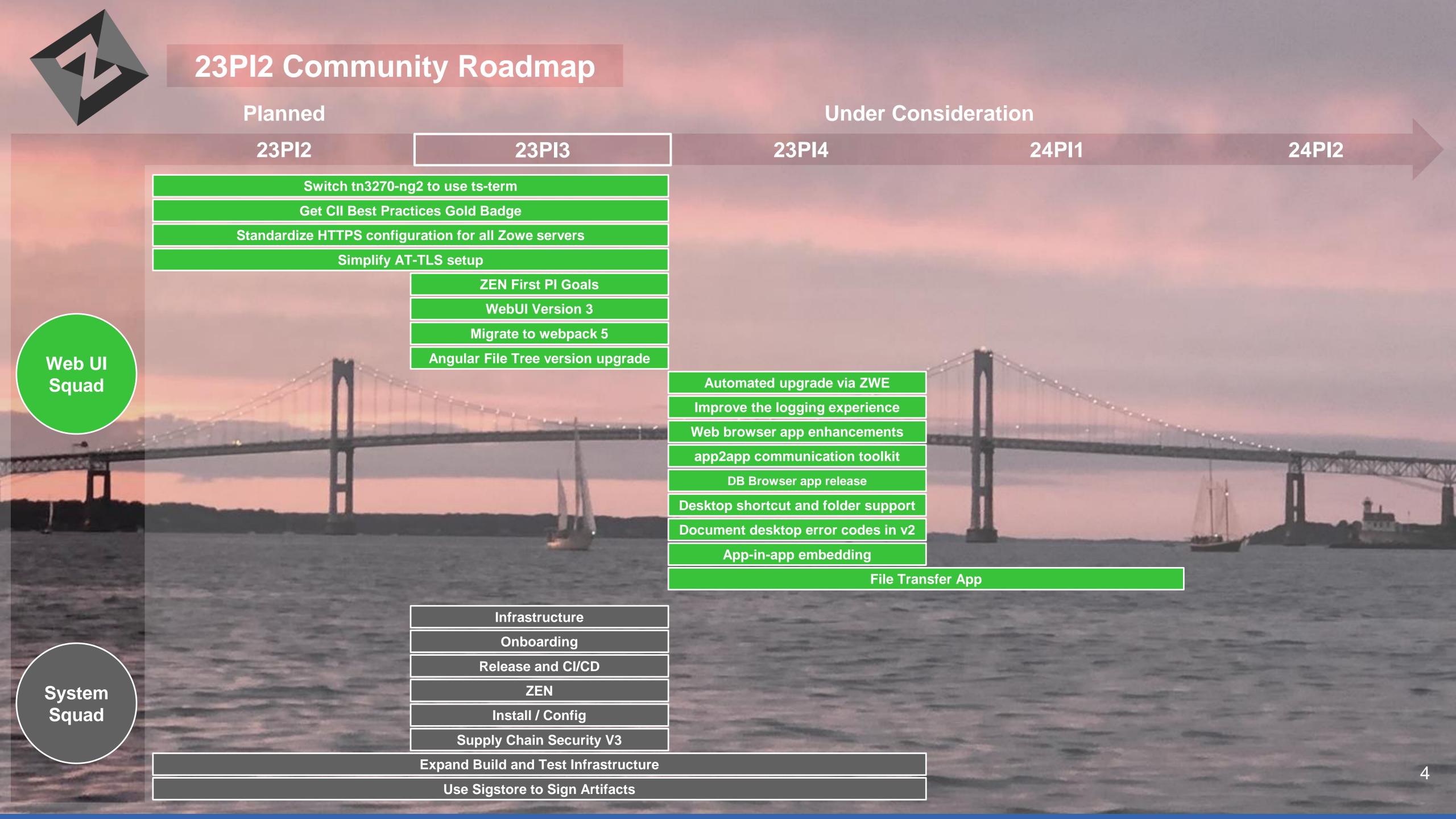




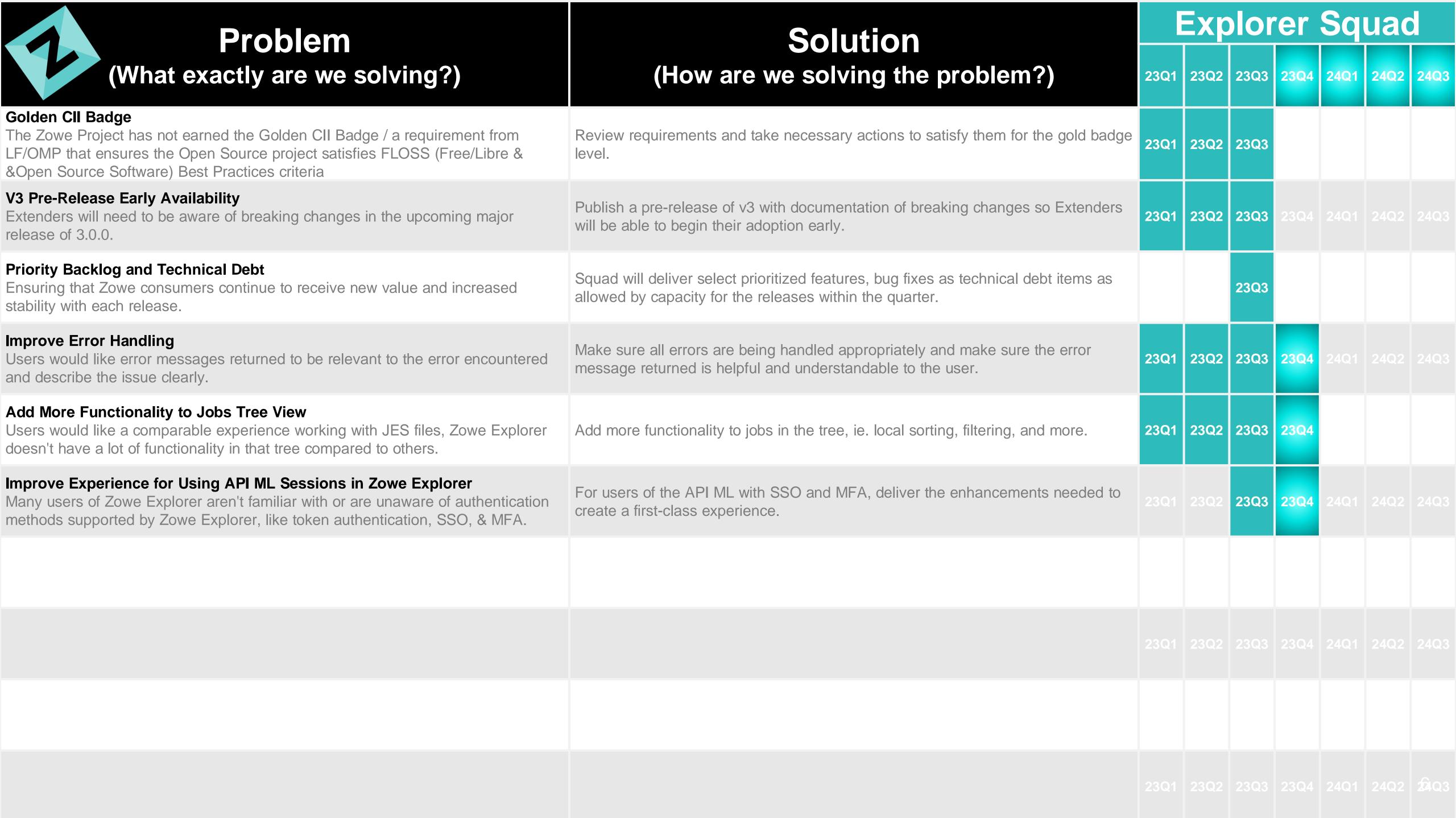
API

23PI3 Community Roadmap

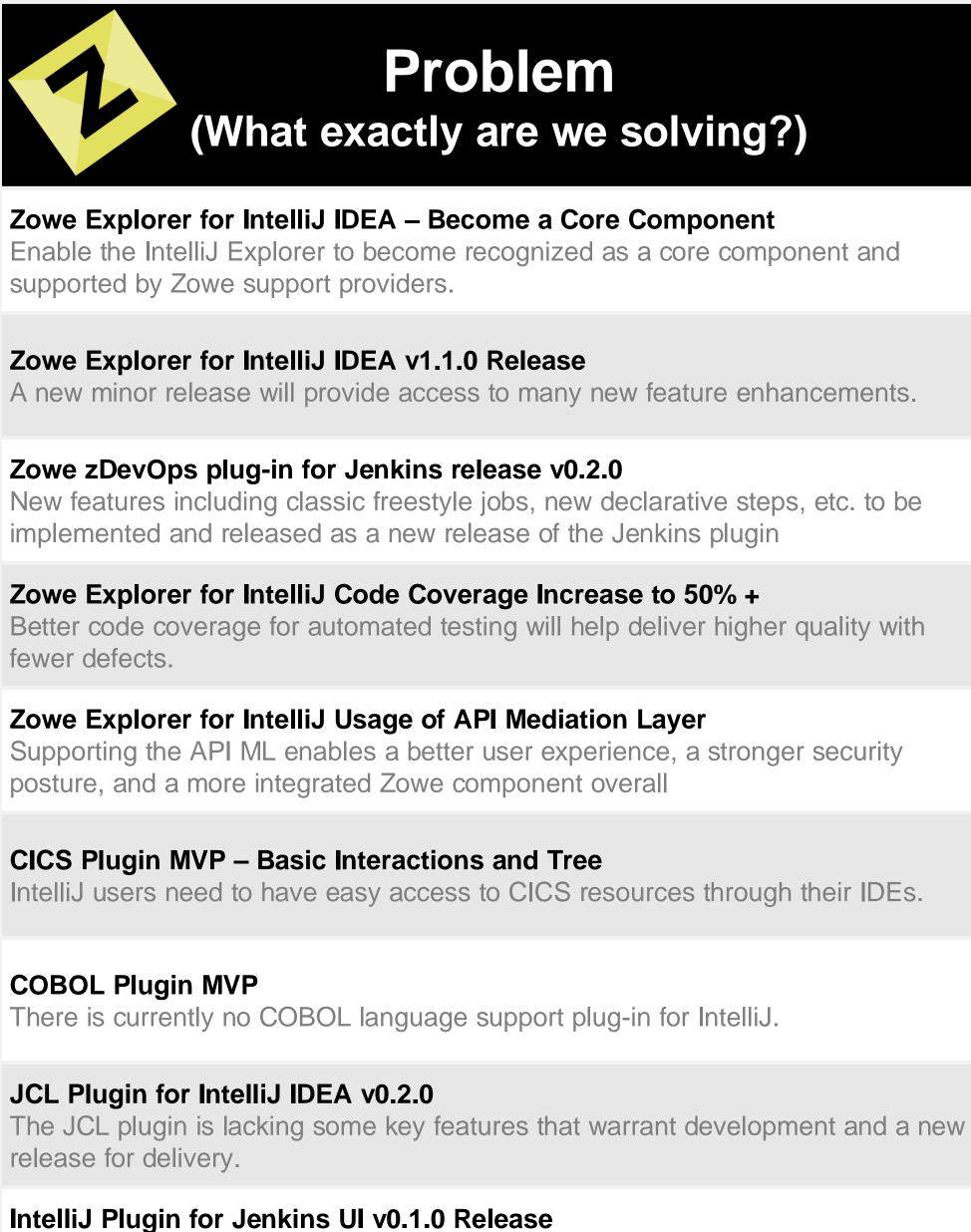
Planned Under Consideration 23PI2 23PI3 23PI4 24PI1 24PI2 **Zowe Explorer for IntelliJ IDEA – Become a Zowe Core Component Zowe Explorer for IntelliJ IDEA v1.1.0 Release Zowe zDevOps plugin for Jenkins v0.2.0 Release Zowe Explorer for IntelliJ Code Coverage Increase to 50% + Zowe Explorer for IntelliJ Usage of API Mediation Layer** Squad **CICS Plugin MVP – Basic Interactions and Tree COBOL Plugin MVP** JCL Plugin for IntelliJ IDEA v0.2.0 **IntelliJ Plugin for Jenkins UI v0.1.0 Release** Migration to JetBrains LSP for JCL plugin starting with IntelliJ IDEA v2023.2 **UI Enhancements and Templating Multi-Tenancy API ML Deployments Spring Cloud Gateway Proxy** Improved Logging for API ML V3 Support Java 17 **V3 Support Spring Boot 3.1** Squad **Improve Fault Tolerance Testing SMF** Records Creation **Observability for API ML Improve Onboarding of Internal APIs**



Problem (What exactly are we solving?)	Solution (How are we solving the problem?)	C		CLI	LI Sq		uad		
		23Q1	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	
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					
Miscellaneous Backlog Items 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.			23Q3				24Q3	
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.	23Q1		23Q3					
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 Best Practices criteria	Review requirements and take necessary actions to satisfy them for the gold badge level.	23Q1	23Q2	23Q3	23Q4			24Q3	
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				
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			24Q3	
Zowe Client Mentorship Opportunity: Enhancing the Python SDK 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				
								24Q3	







Problem (What exactly are we solving?) **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. **Zowe Explorer for IntelliJ IDEA v1.1.0 Release** Prepare, test and release the new version of the plug-in.

IntelliJ users need a user interface inside their IDEs to work with Jenkins while

Migration to JetBrains LSP 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

supporting mainframe-specific activities

ANTLR/PSI implementation for highlighting.

Solution (How are we solving the problem?) Define and meet the requirements for the plug-in to become a core component

Create new automated testing to create at least 50% code coverage.

for Jenkins

Implement the remaining features and release v0.2.0 of the Zowe zDevOps plug-in

Investigate, how to introduce possibility to work with a mainframe using API ML

extension to the Zowe Explorer plug-in for IntelliJ IDEA, implement a connection to

Prepare, test and release the new minor version of the plug-in to introduce live

Implement the basic design of the user interface to interact with Jenkins, implement

Investigate and implement a new version of the Zowe JCL plug-in for IntelliJ IDEA

Set up the environment to work with CICS, implement the new plugin as an

the CICS through CMCI API, implement tree view of the CICS resources

Design and implement an MVP of the plugin

templates, JES statements and auto-completion

interaction with pipelines

with LSP support

IntelliJ Squad

23Q1 | 23Q2 | 23Q3 | 23Q4 | 24Q1 | 24Q2 | 24Q3

23Q1 23Q2 23Q3

23Q1 | 23Q2 | 23Q3

23Q1 | 23Q2 | 23Q3

23Q1 23Q2 23Q3 23Q4

23Q1 | 23Q2 | 23Q3 | 23Q4

23Q1 | 23Q2 | 23Q3 | 23Q4 |

23Q1 | 23Q2 | 23Q3 | 23Q4

23Q2 | 23Q3 | 23Q4

23Q1 | 23Q2 | 23Q3 | 23Q4 | 24Q1

23Q3 | 23Q4 | 24Q1

Problem	Solution		ıad	ad				
(What exactly are we solving?)	(How are we solving the problem?)	23Q1	23Q2	23Q3	23Q4	24Q1	24Q2	2
API Catalog UI Enhancements and Templating Adopters want to have easy access to the available APIs and easily find what they need. This includes their own internal APIs.	Update API Catalog, simplify deployment and support wider amount of ways to show the information about APIs	23Q1	23Q2	23Q3				
Multi-Tenancy API ML Deployments Authenticating Zowe users across Sysplex and security domains	Route users to the relevant sysplex based on the type of request and retrieve data on existing and available Sysplexes	23Q1	23Q2	23Q3	23Q4	24Q1		
Spring Cloud Gateway Proxy Current Netflix ZUUL gateway is no longer actively developed	Deliver a new gateway built upon the Spring Cloud Gateway	23Q1	23Q2	23Q3	23Q4			
Improved Logging for the API ML Currently it's difficult for Users to self-analyze and fix the configuration of Zowe	Provide good quality logs with meaningful and actionable information		23Q2	23Q3	23 Q 4	24Q1		
V3 Support for Java 17 API ML depends heavily on the spring framework. Spring 6 drops support for java versions prior to 17.	The objective for the API ML is to use java 17 in the toolchain and produce artifacts that run on this runtime.			23Q3	23Q4			
V3 Support for Sprint Boot 3.1 Zowe V3 must be on a Spring Boot baseline of 3.1 to be in support.	The objective is to upgrade SpringBoot to at least 3.1.x version for Zowe V3.			23Q3	23Q4	24Q1	24Q2	
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.				23Q4	24Q1		
SMF Record Creation Missing SMF records for some types of authentication events	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,)					24Q1	24Q2	
Observability for the 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			23Q3	23Q4	24Q1	24Q2	
Improve Onboarding of Internal APIs API ML 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.					24Q1	24Q2	2

infrastructure APIs

23Q4 | 24Q1 | 24Q2 | 24Q3

23Q4 24Q1 24Q2 24Q3

23Q1 23Q2 23Q3 23Q4 24Q1 24Q2 24Q3

Problem (What exactly are we solving?)	Solution (How are we solving the problem?)	Web UI Squad							
		23Q1	23Q2	23Q3	23Q4	24Q1	24Q2	24Q3	
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"	23Q1	23Q2	23Q3					
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				24Q3	
Standardize HTTPS Configuration for all Zowe servers The builtin TLS capabilities of each Zowe server varies considerably; it can vary by capability, but also by ways in which the capabilities are configured.	Standardize the HTTPS configuration settings including the overrides for various Zowe components in the yaml.		23Q2	23Q3					
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				24Q3	
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			23Q3					
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			23Q3				24Q3	
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.			23Q3					
Angular File Tree major version upgrade Dependent Software limitations associated with back-leveled version	Upgrade "Angular File Tree" to the next major version			23Q3	23Q4			24Q3	
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.				23Q4				
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.	23Q1	23Q2	23Q3	23Q4	24Q1	24Q2	1 <u>2</u> 24Q3	

