



# Zowe overview video redesign *Draft*

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# Video structure

- Intro
- Current challenges
- Mainframe experience without Zowe
- Mainframe experience with Zowe
- How Zowe benefits users (including 4 components)
- How Zowe extension ecosystem works
- Zowe resources
- Outro

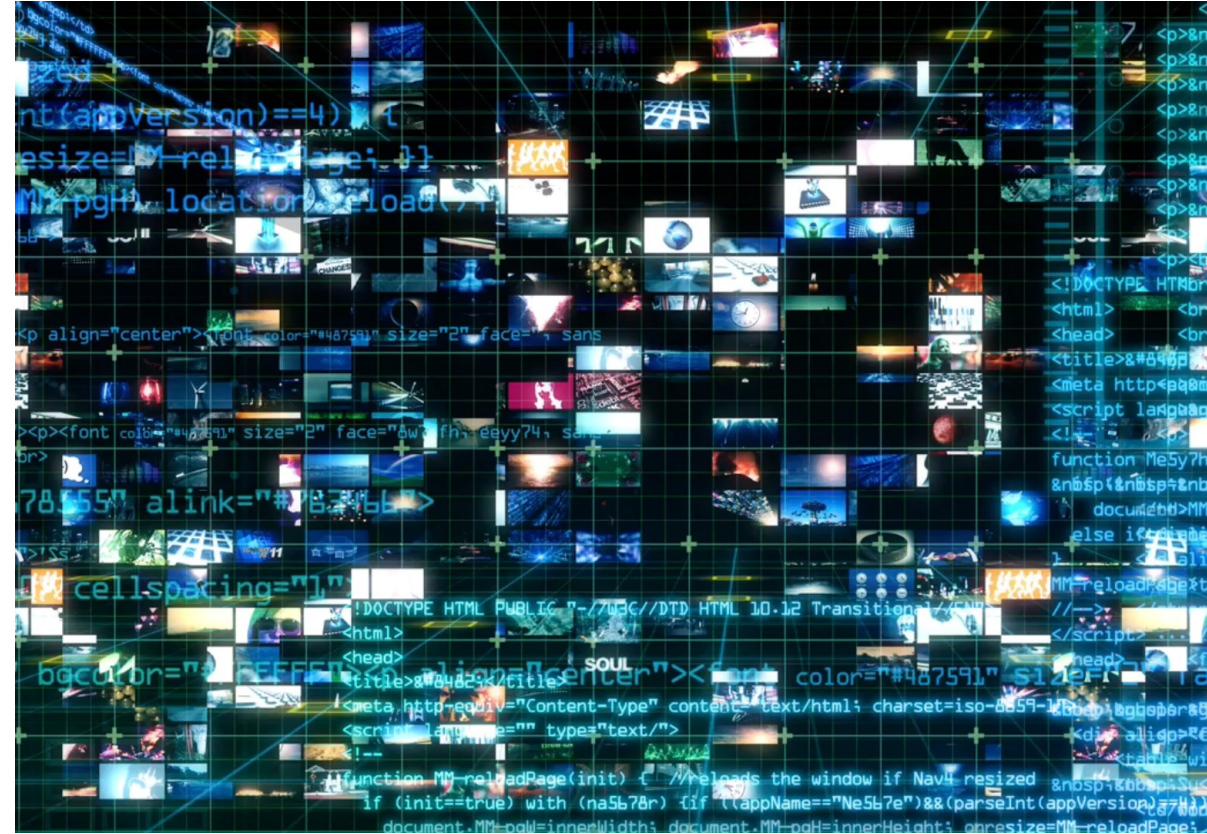
# Video intro



**Zowe**

# Current challenges

- The complex world of today's develop it is continuous
- speed and agility are their measures of success
- and the world is not getting any simpler
- the world is a multi-cloud and multi-platform optimized by use case
- protecting a leveraging past of future IT investments is paramount
- developers and IT professionals are growing in influence in the selection of platforms and tools and look for those that are open, simple and familiar



# Mainframe experience without Zowe

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```
Menu Utilities Compilers Options Status Help
-----
ISPF Primary Option Menu for MV3B

Option ==>

STANDARD OPTIONS                                HURSLEY EXTENSIONS
0 Settings Terminal & user parms DB Database DB2 Managers
1 View Display source data DM Data Mgmt Data Management
2 Edit Create/change source U Utills Utilities
3 Utilities Perform utility funcs SP SysProg System Program
4 Foreground Interactive processing I IPCS Dump Processing
5 Batch Submit job processing O OMVS UNIX System Ser
6 Command Enter TSO/wkstn cmds R RACF Data Security P
7 Dialog Test Perform dialog testing S SDSF Job/Output Disp
8 LM Facility Library admin funcs LU Utills Local Utilities
9 IBM Products Program dev products X EXIT Exit from ISPF
10 SCLM SW Config Lib Manager
11 Workplace ISPF Workplace
12 z/OS System z/OS sysprog appls
13 z/OS User z/OS user appls

For information on MVS Support Services visit:
http://w3.hursley.ibm.com/zos

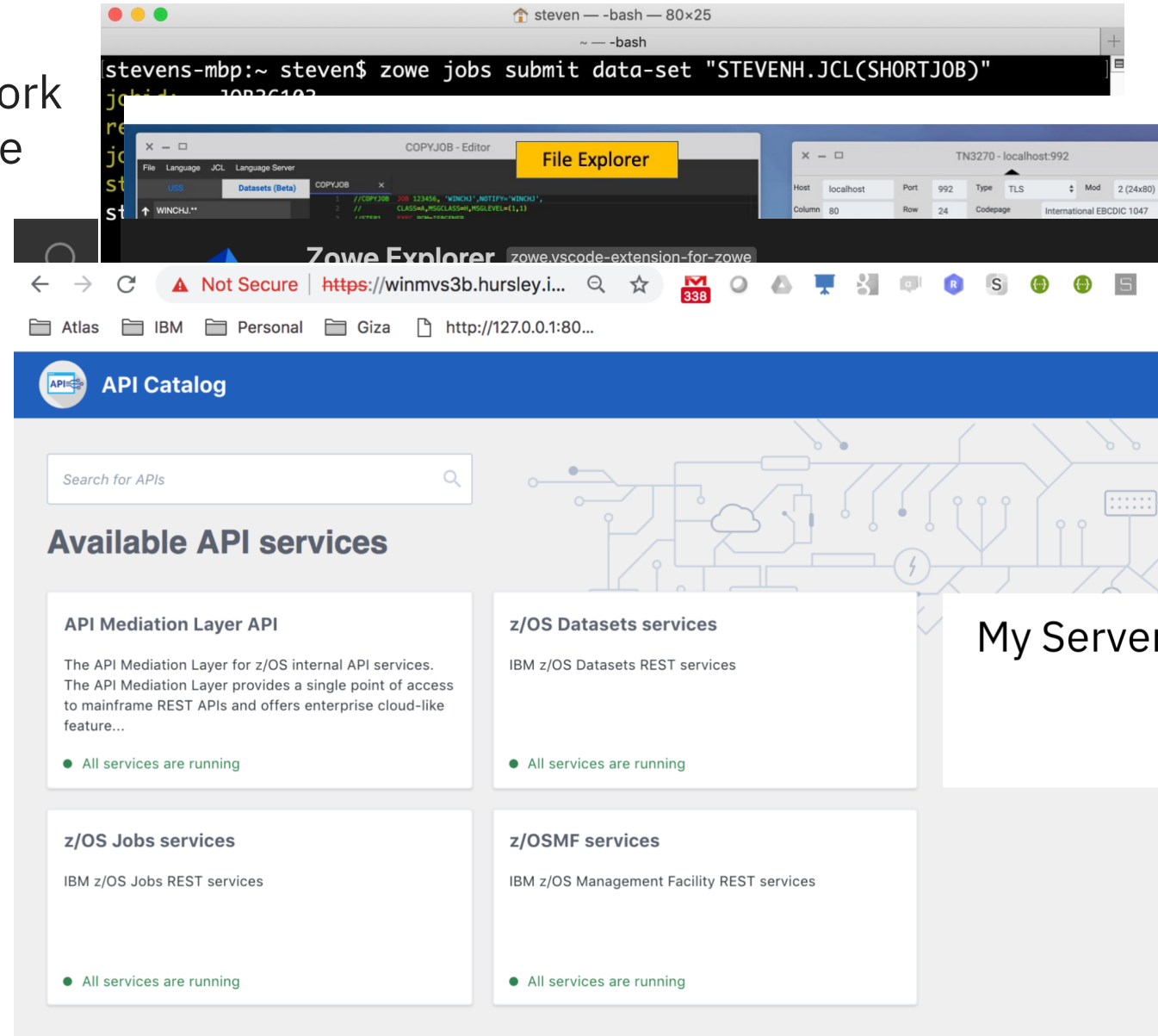
User ID : JCAIN Time : 20:19 Terminal : 3278
Screen : 1 Language : ENGLISH Appl ID : ISR
F1=Help F2=Split F3=Exit F7=Backward F8=Forward F9=Forward

File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW JCAIN.SPFL0G1.LIST
Command ==>
***** ***** Top of Data *****
==MSG) -Warning- The UNDO command is not available until you change
==MSG) your edit profile using the command RECOVERY ON.
000001 1 Time *** ISPF transaction log *** Userid
000002
000003 13:50 Start of ISPF Log - - - Session # 1 -----
000004 13:52 TSO - Command - - %ISREDRTI ISPPROF
000005 1 Time *** ISPF transaction log *** Userid
000006
000007 10:12 Start of ISPF Log - - - Session # 1 -----
000008 10:29 Utility - Move/Copy - 'USER.PROCLIB(ZOEUSER)' Copied
000009 - to 'JCAIN.USER.PROCLIB(ZOEJC)'
000010 10:29 TSO - Command - $ 'USER.PROCLIB(ZOESVR)'
000011 10:36 Utility - Delete - JCAIN.USER.PROCLIB' deleted from volume 3B
000012 10:45 TSO - Command - $ 'USER.PROCLIB(ZOEJC)'
000013 1 Time *** ISPF transaction log *** Userid
000014
000015 09:32 Start of ISPF Log - - - Session # 1 -----
000016 09:33 TSO - Command - $ 'USER.PROCLIB(ZOEJC)'
000017 09:34 TSO - Command - %BOT
000018 1 Time *** ISPF transaction log *** Userid
000019
000020 13:54 Start of ISPF Log - - - Session # 1 -----
000021 13:54 Invalid command - Command name '/D' contains invalid syntax.
000022 13:54 TSO - Command - IPLINFO
F1=Help F2=Split F3=Exit F4=Expand F5=Rfind F6=Rchange F7=Up F8=Down
F11=Right F12=Cancel
```

# Mainframe experience with Zowe

- Zowe delivers an open source tooling framework and ecosystem for z/OS by the Open Mainframe Project with the initial contributions from IBM, Rocket Software and CA Technologies who are now a Broadcom Company
- Zowe Zowe is composed of four main components
- A command line interface
- A web user interface accessible through a desktop browser
- A visual studio code extension known as the Zowe Explorer
- And a powerful API Mediation Layer



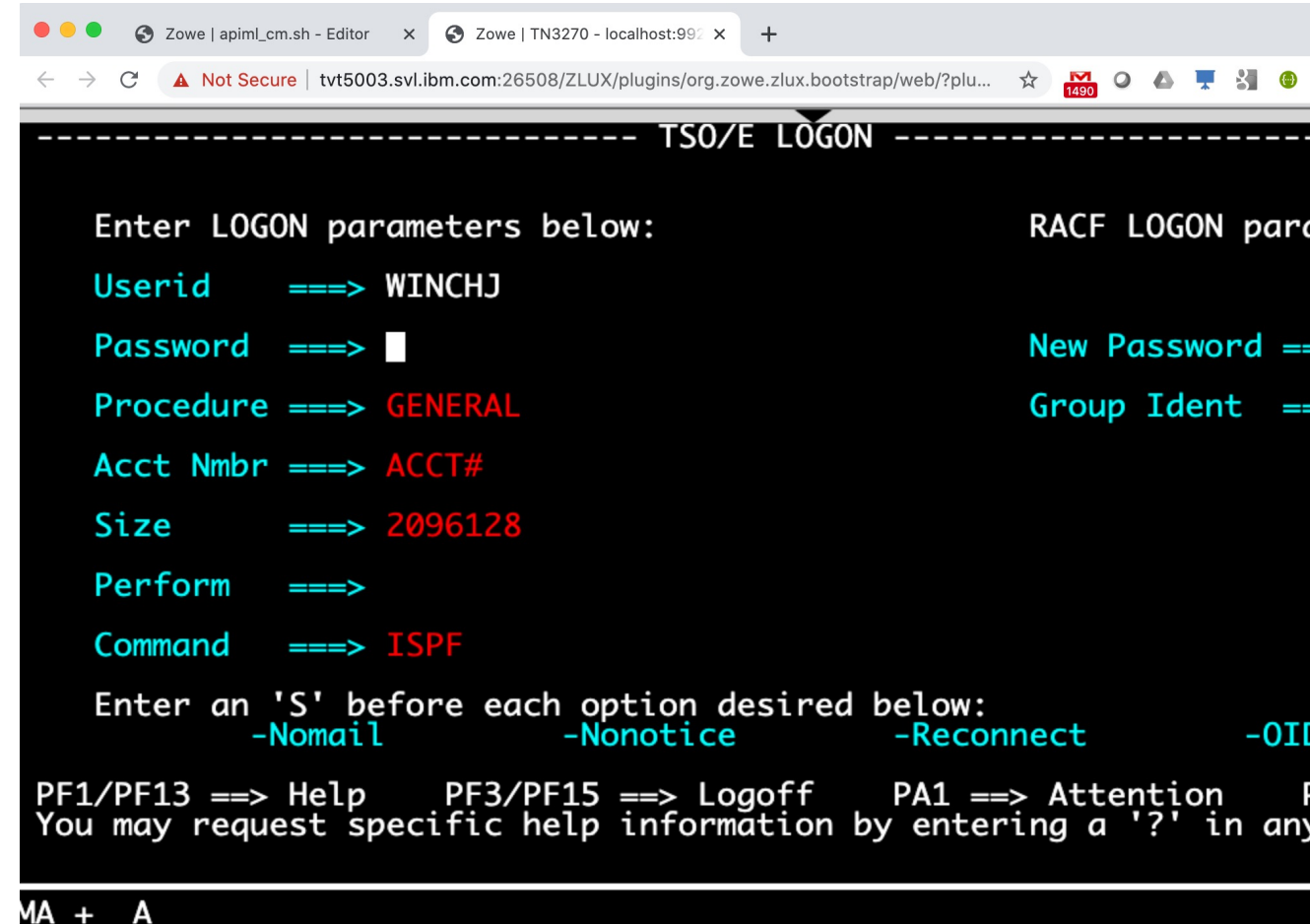
# How Zowe benefits users

- The command user interface, or CLI, allows a user to issue commands from their PC to directly operate and manage their mainframe.
- They can access datasets, jobs, and USS files, and perform other actions.
- Because the CLI is running on the user's laptop it can be embedded and executed from other tools within the same machine
- Such as those for DevOps, CICD Pipelines, Automation scripts, and other scenarios where mainframe orchestration is required
- This allows a developer familiar with their existing software suite to seamlessly use the Zowe CLI to perform mainframe tasks

```
Joe — -bash — 79x31
Joes-MBP-3:~ Joe$ zowe files list data-set WINCHJ.J*
WINCHJ.JCL
WINCHJ.JCL.DEMO
Joes-MBP-3:~ Joe$ zowe files list all-members WINCHJ.JCL
BOBBY
COPYJOB
FROM
Joes-MBP-3:~ Joe$ zowe files download data-set "WINCHJ.JCL(COPYJOB)"
Data set downloaded successfully.
Destination: winchj/jcl/copyjob.txt
Joes-MBP-3:~ Joe$ cat winchj/jcl/copyjob.txt
//TDM2020 JOB 123456, 'WINCHJ',NOTIFY='WINCHJ',
//          CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1)
//STEP1    EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=A
//SYSIN    DD DUMMY
//SYSUT1   DD DISP=SHR,DSN=WINCHJ.JCL(FROM)
//SYSUT2   DD DISP=SHR,DSN=WINCHJ.JCL(TO)
Joes-MBP-3:~ Joe$ zowe jobs submit data-set "WINCHJ.JCL(COPYJOB)"
jobid:     JOB23416
retcode:   null
jobname:   TDM2020
status:    INPUT
Joes-MBP-3:~ Joe$ zowe files list all-members WINCHJ.JCL
BOBBY
COPYJOB
FROM
TO
Joes-MBP-3:~ Joe$ █
```

# How Zowe benefits users

- Zowe desktop, allows access to mainframe data and services using nothing more than a standard web browser.
- Users can log into the desktop with their TSO user ID and password.
- Apps installed in Zowe desktop allow users to access mainframe and perform mainframe tasks in a browser.



The screenshot shows a web browser window with two tabs. The active tab is titled 'Zowe | TN3270 - localhost:992'. The address bar shows a URL starting with 'tvt5003.svl.ibm.com:26508/ZLUX/plugins/org.zowe.zlux.bootstrap/web/?plu...'. The browser's security indicator shows 'Not Secure'. The main content area displays a terminal window titled 'TSO/E LOGON'. The terminal text is as follows:

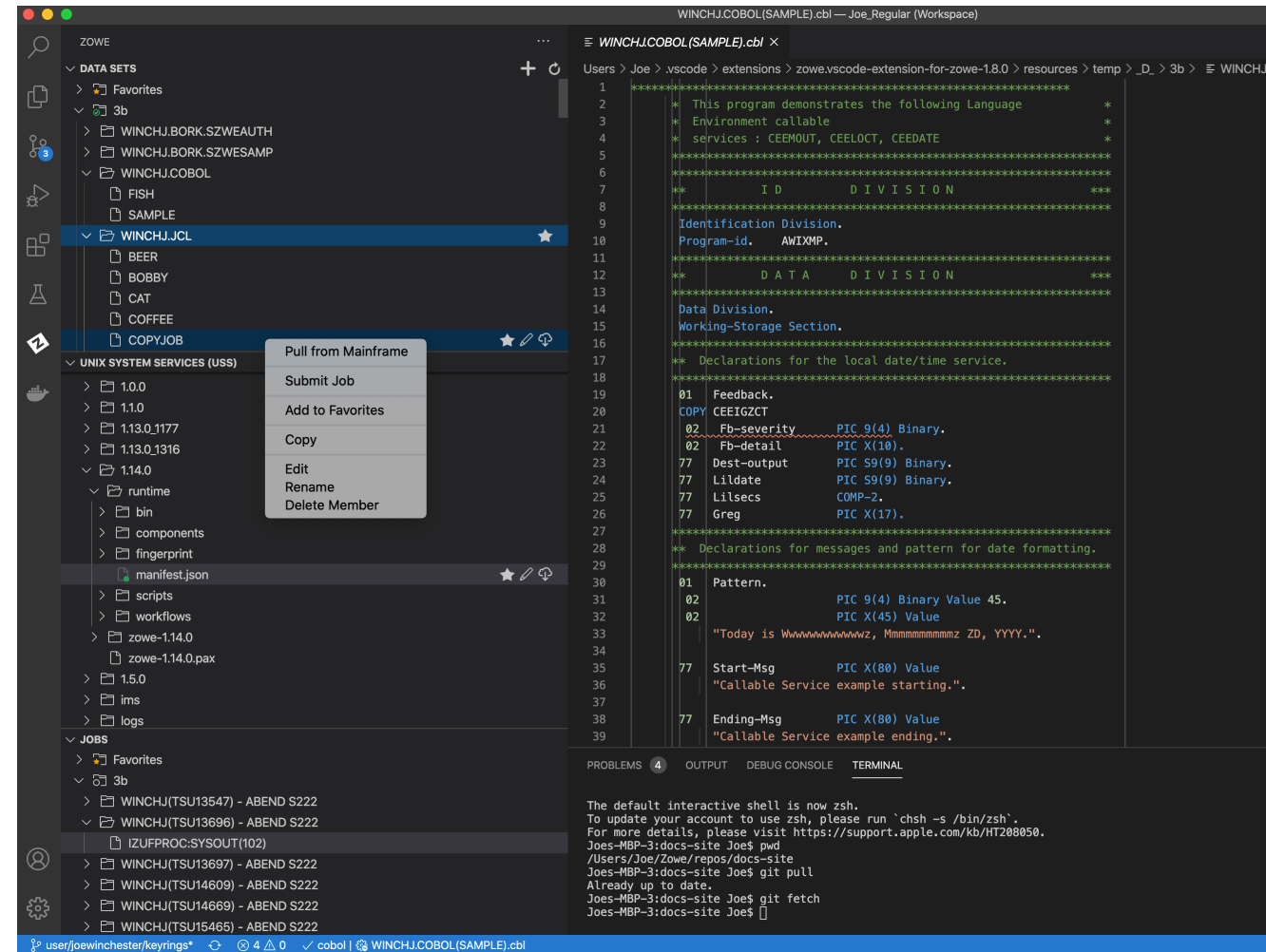
```
----- TSO/E LOGON -----  
  
Enter LOGON parameters below:                                RACF LOGON par  
Userid    ==> WINCHJ  
Password  ==>   
Procedure ==> GENERAL                                Group Ident ==  
Acct Nmbr ==> ACCT#  
Size      ==> 2096128  
Perform   ==>  
Command   ==> ISPF  
  
Enter an 'S' before each option desired below:  
          -Nomail          -Nonotice          -Reconnect          -OID  
PF1/PF13 ==> Help      PF3/PF15 ==> Logoff    PA1 ==> Attention  
You may request specific help information by entering a '?' in any
```

At the bottom of the terminal window, the text 'MA + A' is visible.



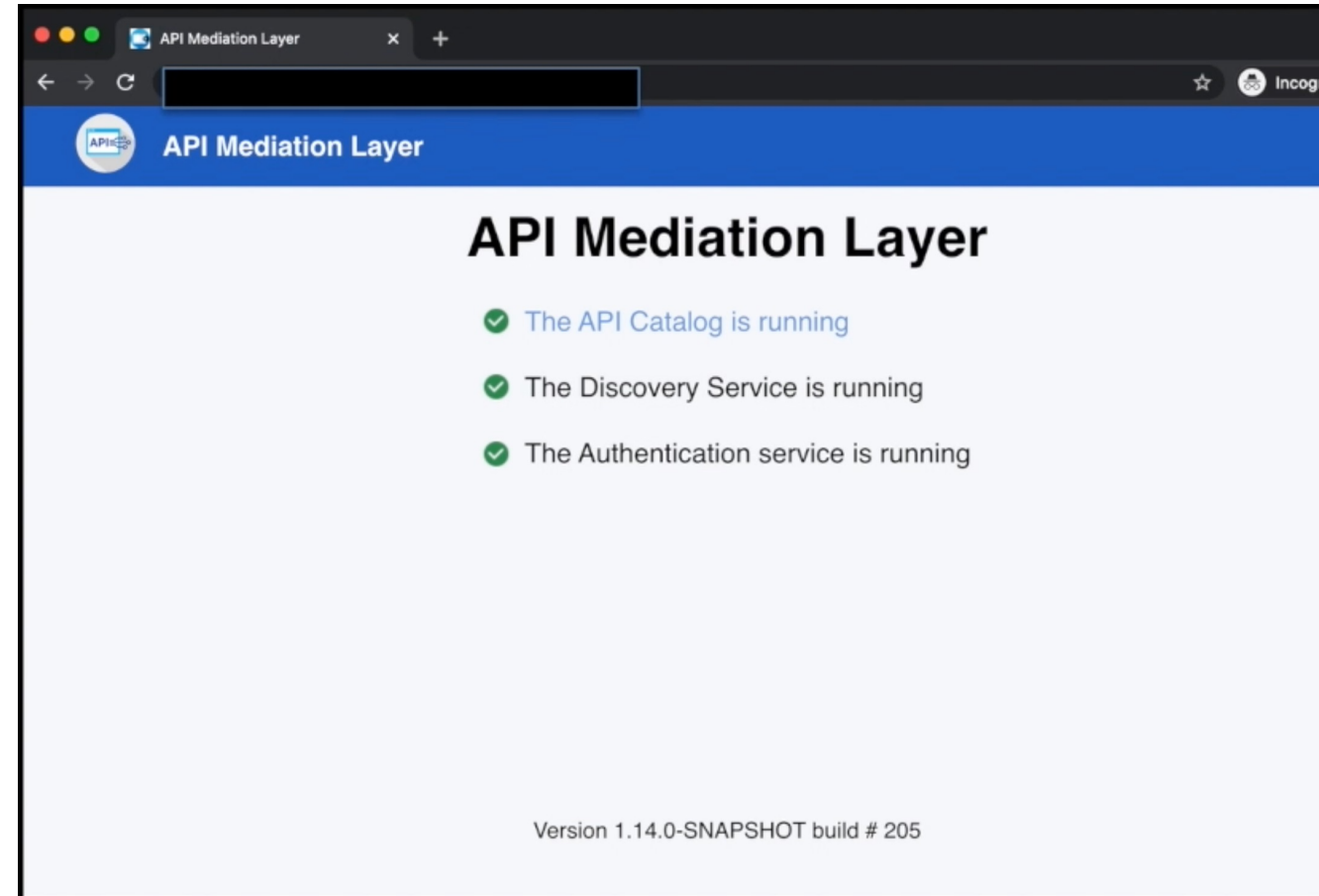
# How Zowe benefits users

- Zowe Explorer, an extension to the popular Visual Studio Code Integrated Development Environment.
- Users can log into the desktop with their TSO user ID and password.
- Apps installed in Zowe desktop allow users to access mainframe and perform mainframe tasks in a browser.
- The Zowe Explorer is an example of where a user who is already familiar with VS Code is able work with mainframe data directly from within their IDE
- Viewing and editing files alongside other VS code plugins such as rich language editors or debuggers
- Creating a powerful modern extensible tools workbench to enhance mainframe productivity



# How Zowe benefits users

- Underpinning Zowe's core capabilities is a powerful API Mediation Layer based on Netflix Zuul technology.
- This provides a catalog of API services on the mainframe allowing a user to actually browse and explore them
- This actually allows developers and system programmers to write their own client applications sitting on top of this benefiting from its features such as single sign-on, high availability and more.
- The API Mediation Layer is the engine that provides all of these services, the sister components: the CLI, the Zowe Explorer and the Zowe desktop.



# How Zowe extension ecosystem works

- Zowe is designed to be an extensible tools platform. You can extend it to meet your needs or distribute the plug-ins to users who have already installed Zowe and want to introduce new functionality to it.
- You can extend Zowe in the following ways:
- Extend the Zowe Command Line Interface.
- Add a REST API service to the API Mediation Layer.
- Add an application plug-in to the Zowe Desktop.
- Extend the Zowe Explorer.

The screenshot displays the Zowe V2 Landscape interface, which is divided into two tabs: 'V2 Landscape' and 'V1 Landscape'. The 'V2 Landscape' tab is active, showing a grid of products that have earned Zowe Conformant status for Zowe V2. The products are organized into two main sections: 'The following products have earned Zowe Conformant status for Zowe V2' and 'Zowe Conformant - API Mediation Layer ZOWE V2 (13)'. The first section contains 12 products, including Zowe (IBM® CICS®, DB2®, IMS™, and MQ for z/OS Plug-in for Zowe CLI), IBM (Remote System Explorer API), and Broadcom (MAT Analyze, MAT Detect, OPS/RVS®, Spool™, View®, Workload Automation CA 7.6, and z/OS FTP Plug-in for Zowe CLI). The second section contains 13 products, including Broadcom (API State Monitor for Zowe API ML, CA Endeavor®, CA Mainframe Security Insights Platform, Database Management Solutions for Db2 for z/OS, and File Master™ Plus), BMC Software (Common REST API (CRA)), and IBM (Z JCL Expert and Remote System Explorer API). The interface uses a clean, modern design with a light gray background and a grid layout. Each product card features the product logo, name, and a brief description.

# Zowe resources

- to find out more, go to the Zowe.org site
- you can check out the documentation
- become a part of the community
- and start contributing to Zowe
- And you can access the open source code on Github today

The screenshot displays the GitHub page for the Zowe project. At the top, the navigation bar includes 'THE LINUX FOUNDATION PROJECTS', the Zowe logo, and links for 'Overview', 'Download', 'Docs', 'Learn', 'Extend', 'Community', 'Support', 'Security', and 'vNext'. Below this is the 'Announcements' section with a 'Zowe Docs' banner. The main content area features a search bar and navigation tabs for 'Pull requests', 'Issues', 'Marketplace', and 'Explore'. The 'Overview' tab is active, showing the Zowe repository profile with a description: 'Zowe, a top level project of Open Mainframe Project'. Below the profile are several pinned repositories: 'community', 'zac', 'docs-site', and 'vscode-extension-for-zowe'. A 'Repositories' section follows, listing 'zowe-install-packaging', 'zowe.github.io', 'imperative', and 'zowe-cli' with their respective statistics and update times.

Zowe build

Zowe can u

Zowe