



# LDMS Batch Loader



COMPUTING

Emily Lam  
Hanson Lau  
Directorate/Division: ITS



# What is LDMS?



LDMS = LivCloud Desktops Management System

**LivCloud Desktops Management System**  
Powered by AWS WorkSpaces

Logged in as: [redacted]

[Admin Dashboard](#) [My Servers](#) [Create Desktop](#)

**My Desktops**

☐ Show Terminated

AWS WorkSpaces can be extended to later end dates. They can also be upgraded to have more CPU, Memory or Disk Space. To do so, please submit a ticket through ServiceNow. Tickets can be submitted by Clicking [Here](#).

**WSAMZN-0EOCNG4U** Stopped  
User: [redacted] User Type: FTE

| Operating System | Performance Type | Root Volume Size | User Volume Size | Organization | Start Date | End Date  |
|------------------|------------------|------------------|------------------|--------------|------------|-----------|
| Windows          | Performance      | 80GB             | 10GB             | BUSS         | 7/11/2024  | 10/8/2024 |

| Project Number | Task Number | LINCS Release Number | Registration Code | Sponsor    | Last Connected | Terminate Date |
|----------------|-------------|----------------------|-------------------|------------|----------------|----------------|
|                |             | H_TEST_RELEASE       | wspdt+KBXWH6      | [redacted] | Unknown        | Unknown        |

Cost Summary

Home Page



Virtual Desktop Infrastructure (VDI)  
Vendor

**LivCloud Desktops**

Please log in with your llnl-students credentials

Username

Password

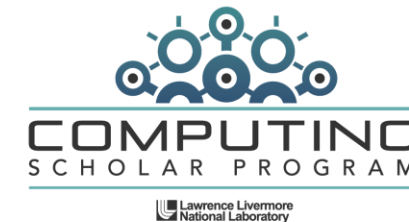
[Sign In](#)

[Change Registration Code](#)

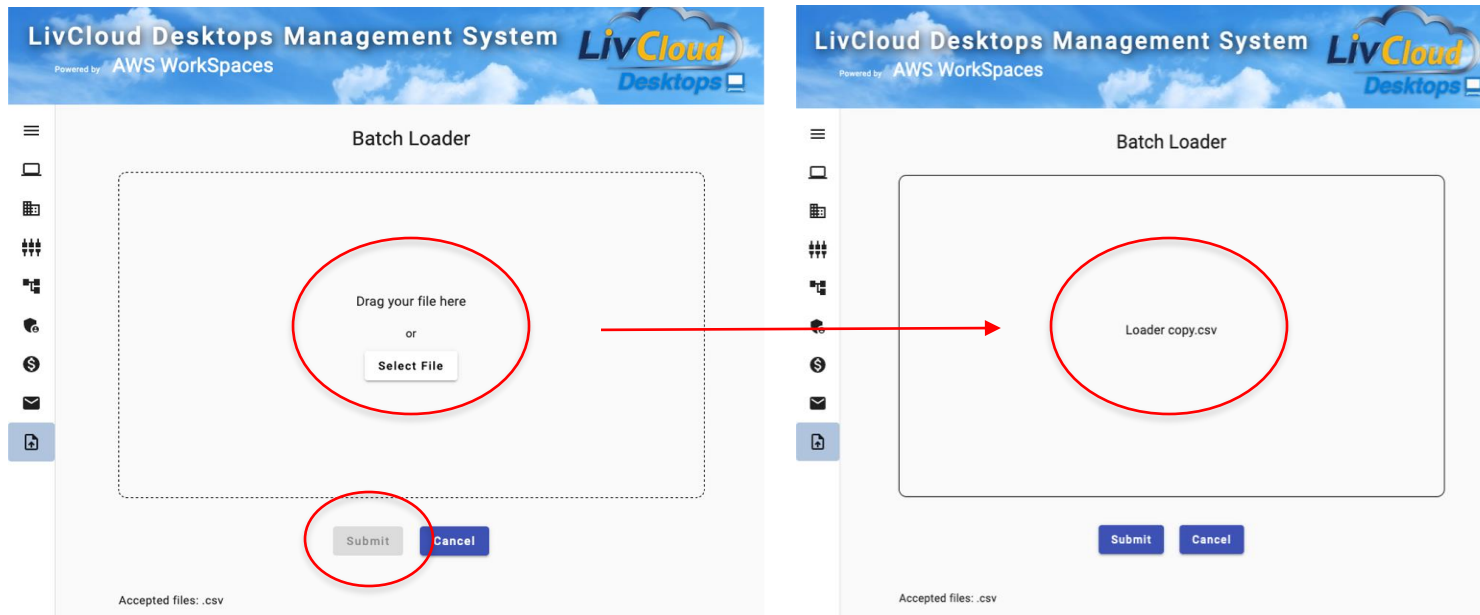
\*\*WARNING\*\* This is a Department of Energy (DOE) computer system. DOE computer systems are provided for the processing of official U.S. Government information only. All data contained within DOE computer systems is owned by the DOE, and may be audited, intercepted, recorded, read, copied, or captured in any manner and disclosed in any manner, by authorized personnel. THERE IS NO RIGHT OF PRIVACY IN THIS SYSTEM. System personnel may disclose any potential evidence of crime found on DOE computer systems to appropriate authorities. USE OF THIS SYSTEM BY ANY USER, AUTHORIZED OR UNAUTHORIZED, CONSTITUTES CONSENT TO THIS AUDITING, INTERCEPTION, RECORDING, READING, COPYING, CAPTURING, AND DISCLOSURE OF COMPUTER ACTIVITY. \*\*WARNING\*\*

Workspace Login

# What is Batch Loader?



# Batch Loader: Front End



User Interface

A survey form titled "Unlimited PTO". It features a horizontal scale from 1 to 5. Below the scale, the text "Not Important" is aligned with 1 and "Very Important" is aligned with 5. There are five radio buttons corresponding to the numbers. At the bottom, there are "Submit" and "Clear form" buttons.

Google also uses Angular for a lot of their products!



# Parsing and Error Catching



|   | A       | B         | C    | D       | E         | F       | G           | H        |
|---|---------|-----------|------|---------|-----------|---------|-------------|----------|
| 1 | UserId  | SponsorId | Org  | OsType  | StartDate | EndDate | RequesterId | UserType |
| 2 | testid1 | sponsor1  | COMP | linux   | 7/6/24    | 6/21/24 | LDMS        | STUDENT  |
| 3 | testid2 | sponsor1  | COMP | linux   | 5/6/27    | 6/21/24 | LDMS        | STUDENT  |
| 4 | testid4 | sponsor2  | COMP | windows | 4/26/24   | 6/21/24 | LDMS        | FTE      |



With help from Papa Parse!

|   | A       | B         | C    | D       | E         | F       | G           | H        |
|---|---------|-----------|------|---------|-----------|---------|-------------|----------|
| 1 | UserId  | SponsorId | Org  | OsType  | StartDate | EndDate | RequesterId | UserType |
| 2 | testid1 | sponsor1  | COMP | linux   | 6/6/24    | 7/6/24  | LDMS        | STUDENT  |
| 3 | testid2 | sponsor2  |      | linux   | 6/6/24    | 7/6/24  | LDMS        | STUDENT  |
| 4 | testid3 | sponsor3  | COMP | windows | 7/6/24    | 6/6/24  | LDMS        | STUDENT  |
| 5 | testid4 | sponsor4  |      | bogus   | 6/6/24    | 7/6/24  | LDMS        | STUDENT  |



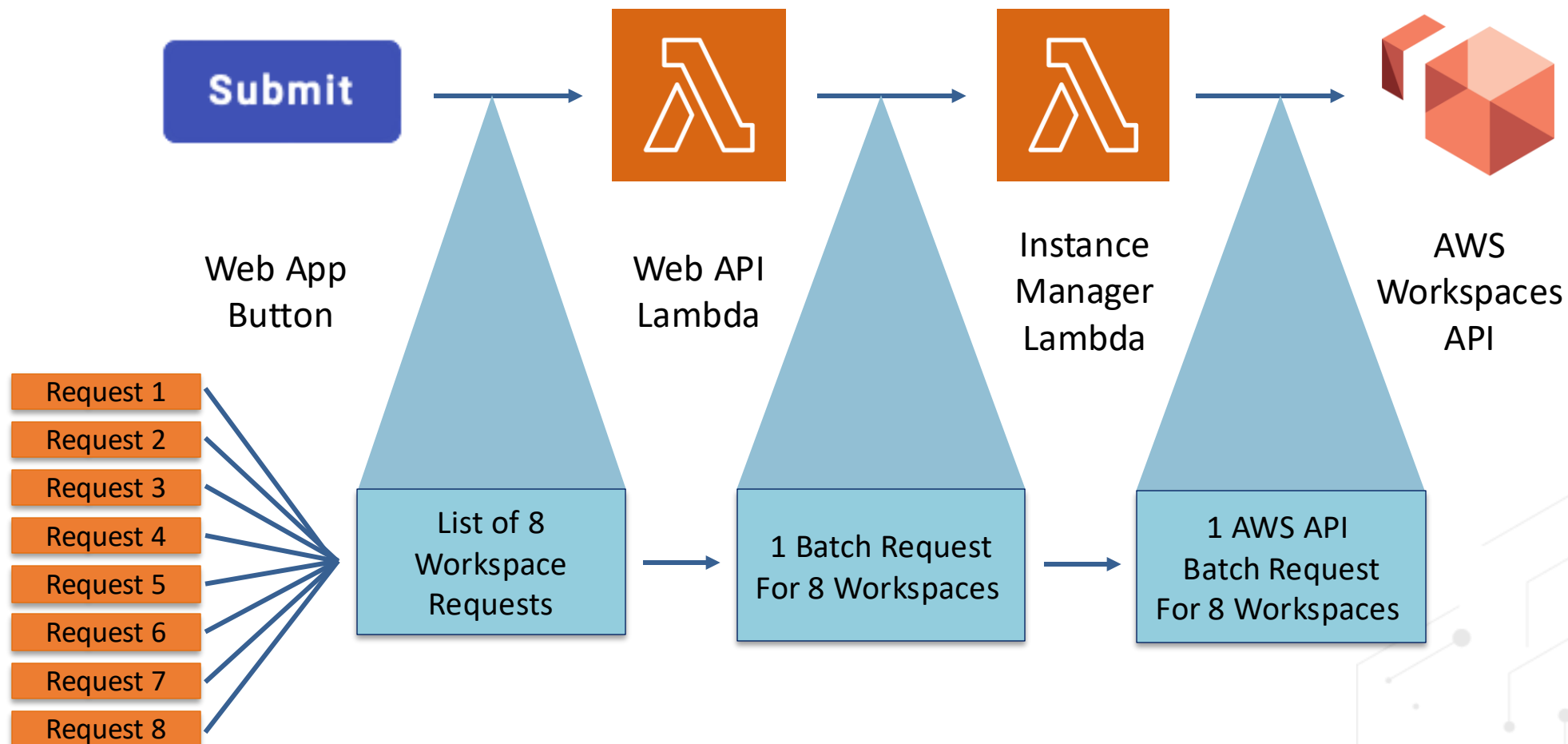
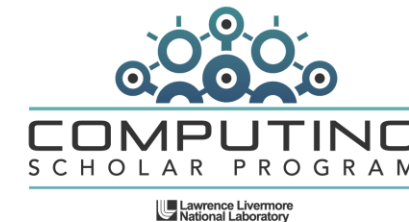
The following errors must be fixed before the file can be submitted:

Row 3: Missing Property: Org;

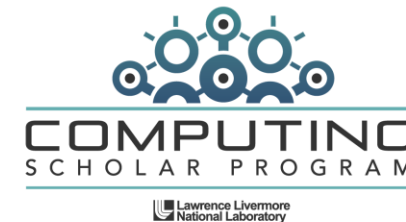
Row 4: Start Date must be before End Date;

Row 5: Missing Property: Org; Invalid OS;

# Batch Loader: Back End



# Users Affected and Time Saved



Currently 558 workspaces in use

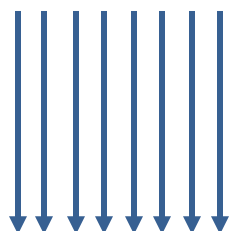
WorkSpaces personal (558) [Info](#)

(Query from AWS console)

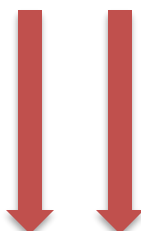
~200 summer students each year



Less APIs calls



VS



~15-25 seconds per workspace being created

Create New Desktop

