



Cloud License Portal User's Guide



Center for Advanced Decision Support
for Water and Environmental Systems
UNIVERSITY OF COLORADO **BOULDER**

These documents are copyrighted by the Regents of the University of Colorado. No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means electronic, mechanical, recording or otherwise without the prior written consent of The University of Colorado. All rights are reserved by The University of Colorado.

The University of Colorado makes no warranty of any kind with respect to the completeness or accuracy of this document. The University of Colorado may make improvements and/or changes in the product(s) and/or programs described within this document at any time and without notice.

Contents

- About This Guide 1**
 - Support Information..... 1**
- About RiverWare Cloud Licenses 1**
 - About the RiverWare Cloud License File 1**
 - Authorizing Use of the RiverWare Cloud License File..... 1**
- Portal User Viewing and Managing Procedures..... 2**
 - Log In to Your Customer Portal Account 2**
 - View the License Server Dashboard..... 4**
 - Configure License Options for Your Organization 5**
 - Examples 9**
 - Restart the License Server..... 10**
 - View License Server Summary Statistics 10**
 - View License Server Configuration Details 11**
 - View License Server Usage Statistics..... 12**
 - View and Manage License Server Logs..... 13**
 - View and Update Your License Administrator Profile 15**
 - Administer Portal Users 15**
- Installing RiverWare and the License File..... 18**
 - License File Name and Location 19**
 - Download and Install RiverWare 19**

About This Guide

This guide is primarily for RiverWare cloud license users. It provides instructions on using the RLM Cloud Control Customer Portal to administer cloud licenses for your RiverWare end users.

This guide also provides recommendations for how end users should set up the RiverWare license file on their local computers. See [Installing RiverWare and the License File](#).

Reprise also provides a user manual for portal users. From the Portal main page, select the About tab and then the link for View RLMCloud Portal User Manual.

Support Information

For help with RiverWare installation and licensing, email RiverWare Installation Support: installsupport@colorado.edu

About RiverWare Cloud Licenses

A RiverWare cloud license is a floating license that can be installed on and run from any local machine or cloud computing environment on which RiverWare is installed and that has internet access. The license is obtained from the RiverWare cloud license server. The cloud license limits the number of machines that can simultaneously execute RiverWare, according to the number of seats on the floating license, much as an on-premise floating license. Unlike an on-premise floating license, however, the machines that have access to the cloud license do not have to be on a common network.

The RiverWare cloud license server runs in the cloud on the RLMCloud license server, which is hosted by Reprise Software.

About the RiverWare Cloud License File

Caution: The RiverWare license file is a plain ASCII file. Do not make any changes to its contents, and do not save it to any other format.

CADSWES delivers your organization's cloud license file, named `cadswes.lic`, to you as an email attachment. The cloud license file contains the following information specific to your organization:

- General organization and license information
- The cloud license key
- Two TCP port numbers that must be open on your firewall for communication

The cloud license file must be installed on each end user's machine in the RiverWare *default license folder*. See [License File Name and Location](#) for details.

Authorizing Use of the RiverWare Cloud License File

By default, any user with a copy of your organization's RiverWare license file has the ability to run the RiverWare application. For added security, you can use the license server *ISV Options file* to authorize use of the RiverWare licenses in your organization. The ISV Options file provides multiple options for granting authorization.

Note: Although configuring the ISV Options file is optional, CADSWES highly recommends that you do so for security reasons.

See [Configure License Options for Your Organization](#) for instructions on modifying this file for your organization's requirements.

For complete details about this file, see the "The ISV Options File" section of the Reprise Software manual, *RLM License Administration*, at the following URL:

http://www.reprisesoftware.com/RLM_License_Administration.pdf

Portal User Viewing and Managing Procedures

The procedures in this section apply to the user who manage the RiverWare cloud license user portal account.

Log In to Your Customer Portal Account

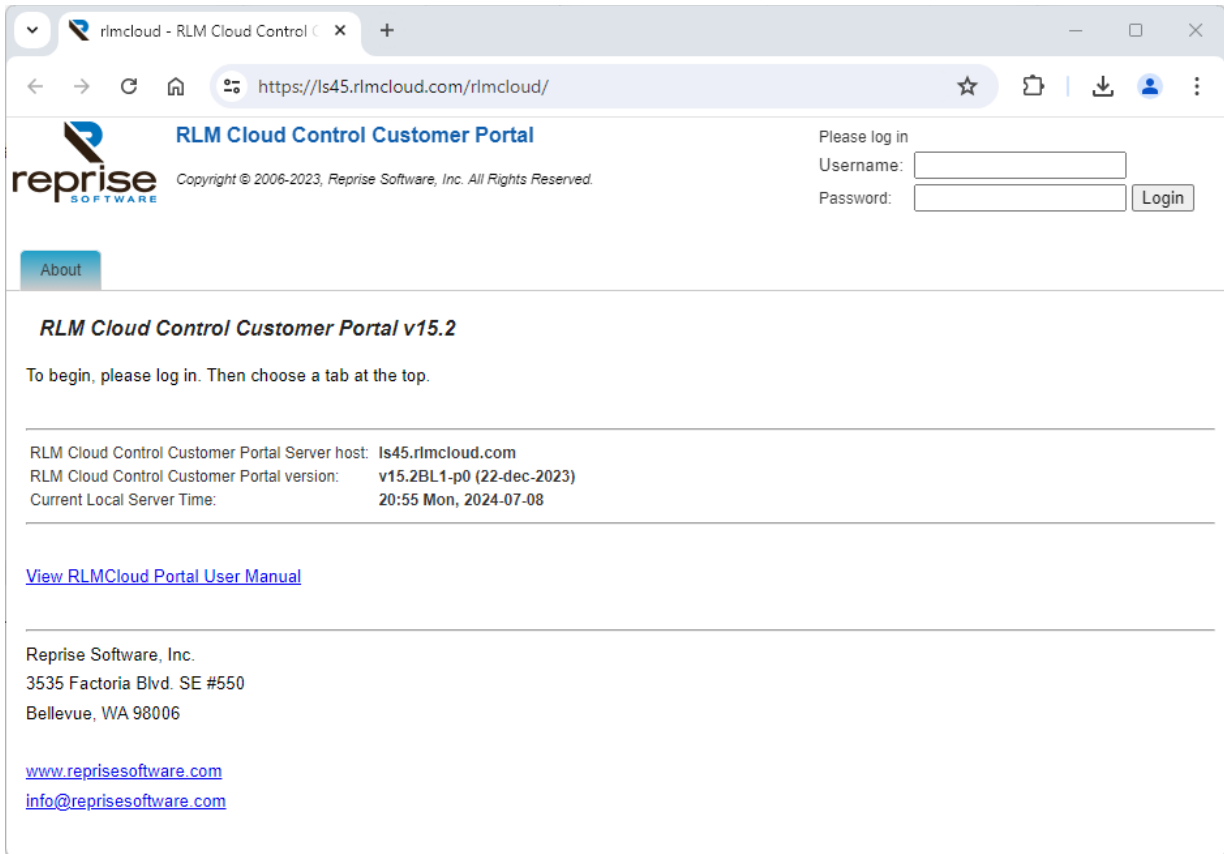
CADSWES creates a customer portal account for each RiverWare cloud license customer. As a cloud license administrator, you can use this portal to access your organization's cloud license server and to view and administer cloud licenses and users. Your portal account is hosted on the RLMCloud site.

1. To connect to the RLM Cloud Control Customer Portal Server host, open a browser and enter the following URL:

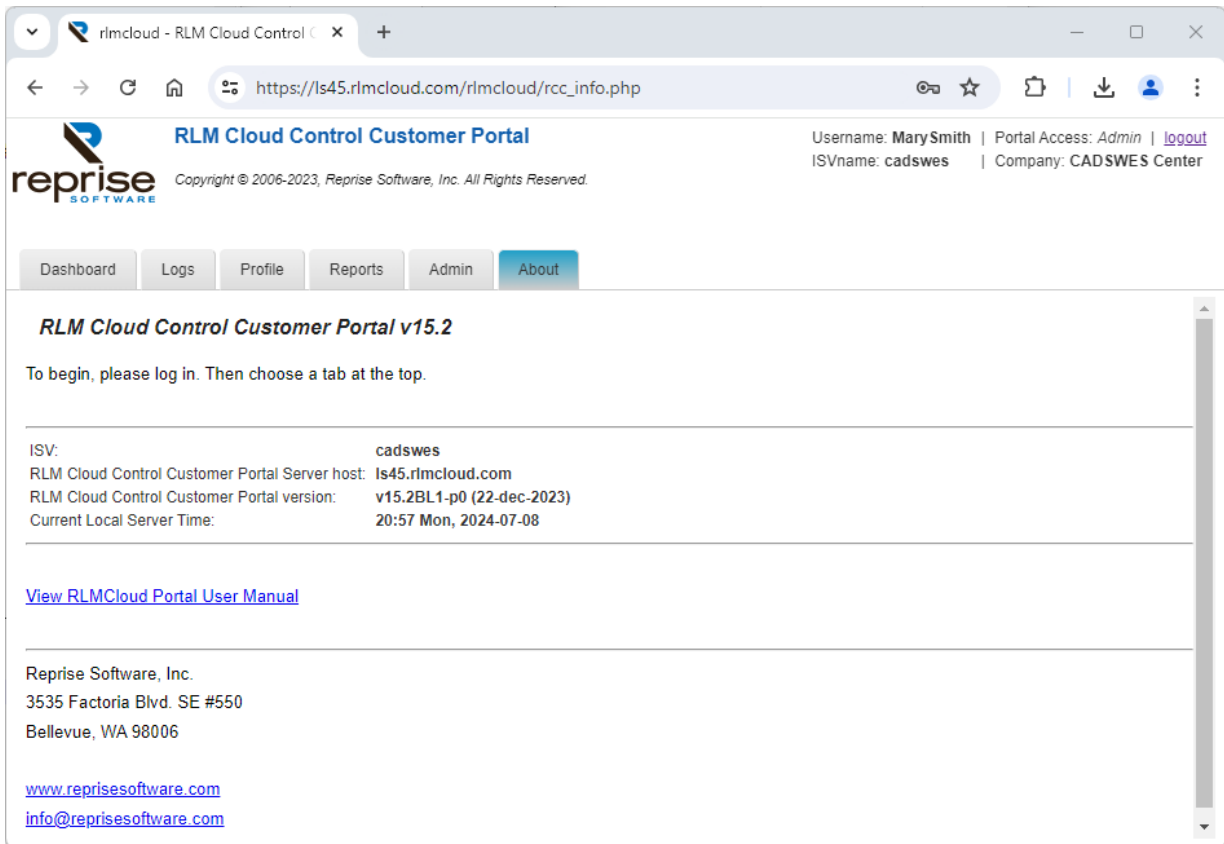
<https://1s45.rlmcloud.com/rlmcloud/>

The main customer portal screen appears.

2. Enter the username and the password provided to you by CADSWES, and press **Login**.



After logged in, you will be at the About page.

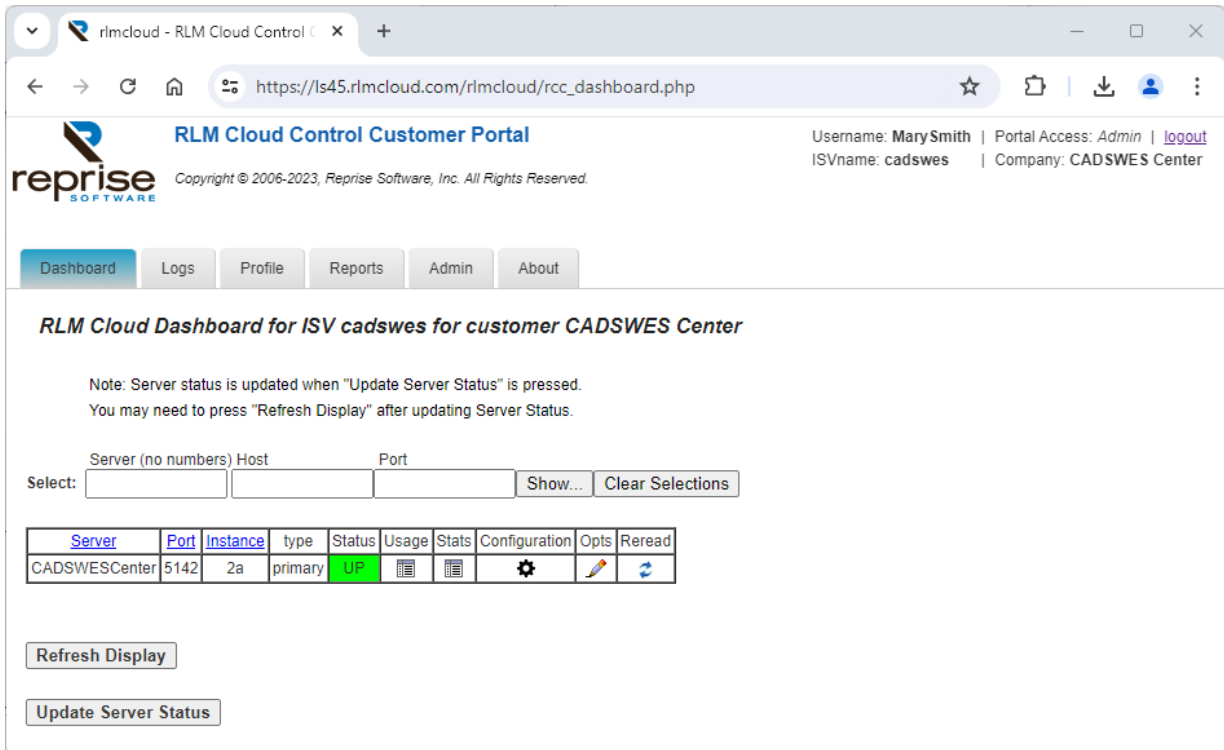


View the License Server Dashboard

Use this procedure to view your license server dashboard, which is the main customer portal screen. It displays current status of your organization's license server and provides access to most license server administration tasks.

1. Select the **Dashboard** tab.

The Dashboard appears.



Screen fields

Display fields are as follows:

- Server: Unique name of your organization's cloud license server.
- Port: Port number on which the license server is running.
Note: This is one of the two dedicated TCP ports that must be open for outgoing connections on your firewall.
- Instance: Internal ID assigned to this license server instance.
- Type: Always displays "primary", indicating primary license.
- Status: Current status of your license server, as follows:
 - Up (green). Server is up and serving licenses.
 - Up (yellow). Server is up but not serving licenses.
 - Down (red). Server is down.

Screen buttons

Screen icons and buttons are as follows:

- **Usage:** See [View License Server Usage Statistics](#) for instructions.
- **Stats:** See [View License Server Summary Statistics](#) for instructions.
- **Configuration:** See [View License Server Configuration Details](#) for instructions.
- **Opts:** See [Configure License Options for Your Organization](#) for instructions.
- **Reread:** See [Restart the License Server](#) for instructions.
- **Refresh Display:** Select this button to update the screen display in your browser.
- **Update Server Status:** Select this button to request current status from the license server and update your browser display.

Configure License Options for Your Organization

Use this procedure to configure the license server ISV Options file to grant access to your organization's RiverWare licenses. You can grant access in one of the following ways:

- Authorize groups of specified users, hosts, or IP addresses to use *any* of the licenses on the server. The licenses are treated as one pool, and unused licenses are available to users in any authorized group.
- Create distinct license pools by reserving a specified number of licenses for exclusive use by a group of users, hosts, or IP addresses. Users only have access to the licenses in their respective license pool.

Note: Although this procedure is optional, CADSWES recommends using it for added security protection. See [Authorizing Use of the RiverWare Cloud License File](#) for additional information.

For complete details about this file, see the “The ISV Options File” section of the Reprise Software manual, *RLM License Administration*, at the following URL:

http://www.reprisesoftware.com/RLM_License_Administration.pdf

The following are guidelines for editing this file:

- You must complete your edits within ten minutes; after this time, the lock on the ISV options file expires and you cannot save your changes and must start the edits over again.
- Each line in the file can be a maximum of 1024 characters in length.
- IP addresses can contain the wildcard character (*).
- For your convenience, your organization's default ISV Options file includes comment lines that provide examples of the proper syntax for specifying authorized users and reserved licenses. You can authorize or reserve licenses by user group, host group, or IP address group.

Caution: Use only one type of group to grant access; specifying multiple types of groups (for example, specifying authorized users or reserved licenses by user group *and* by host group) may have unpredictable results.

1. Log in to your portal account.
2. Select the **Dashboard** tab.
The Dashboard appears.
3. In the Opts column of the screen, select the **Pen** icon.

reprise SOFTWARE Copyright © 2006-2023, Reprise Software, Inc. All Rights Reserved.

RLM Cloud Control Customer Portal

Username: **MarySmith** | Portal Access: [Admin](#) | [logout](#)
 ISVname: **cadswes** | Company: **CADSWES Center**

Dashboard Logs Profile Reports Admin About

RLM Cloud Dashboard for ISV cadswes for customer CADSWES Center

Note: Server status is updated when "Update Server Status" is pressed.
 You may need to press "Refresh Display" after updating Server Status.

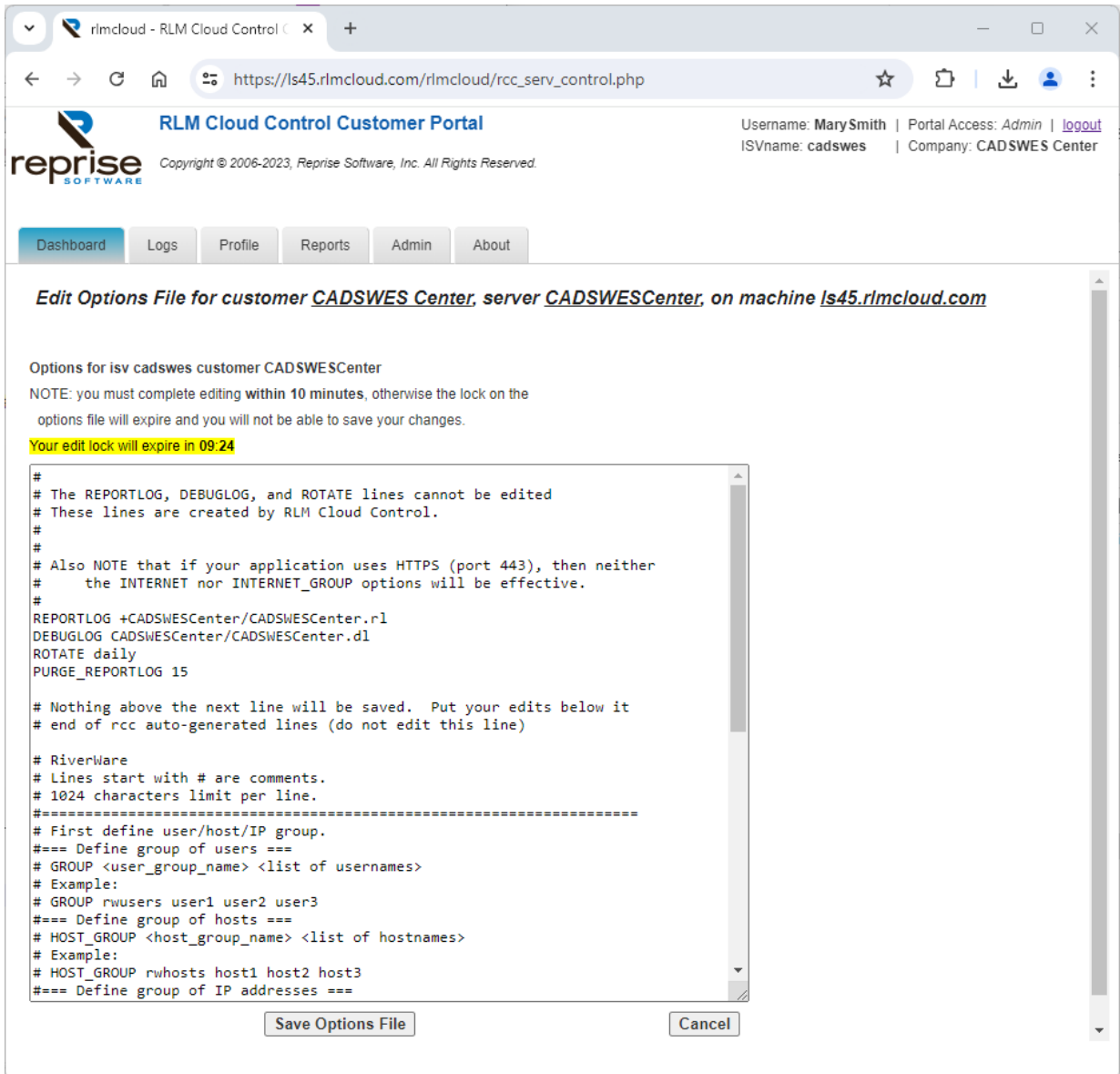
Server (no numbers) Host Port
 Select: Show... Clear Selections

Server	Port	Instance	type	Status	Usage	Stats	Configuration	Opts	Reread
CADSWESCenter	5142	2a	primary	UP					

Refresh Display

Update Server Status

Your ISV options file appears as below.



4. In the ISV Options file, find the comment section that corresponds to the method you want to use to grant authorization. Use the following steps to make the modifications for your organization; for assistance, see the Examples below.

Note: For each comment line you want to modify, you can either edit each line directly or copy and paste the line and edit the copy.

- a. Remove the # comment character at the beginning of the line you want to modify.
- b. To authorize by users, in the line that begins with GROUP, enter the user group name and the list of valid user names that belong to the group. To authorize by hosts, in the line that begins with HOST_GROUP, enter the host group name and the list of valid host names that belong to the group. To authorize by IP addresses, in the line that begins with INTERNET_GROUP, enter the internet group name and the list of valid IP addresses that belong to the group. Each of these lines defines the group to the license server and must be completed for the group to be valid.

Note: All group names—user group, host group, and IP address group—are user-defined within the ISV Options file; that is, they are not verified against any resource management service implemented at your organization, and as such, you can assign any names you want.

In contrast, individual user names, host names, and IP addresses must be valid within your

organization.

- c. In the line that begins with INCLUDEALL, enter the group name; all users in the group will be granted authorization. Optionally, you can also add individual user names, host names, or IP addresses that are not part of the group. Any users *not* included in the group or *not* listed individually will be denied authorization.

Note: If you use this option, you cannot use the RESERVE option.

- d. In the line that begins with RESERVE, enter the number of licenses to be reserved, the license feature name “riverware,” and the group name. The number of licenses is subtracted from the total number of floating licenses on the server, and only users in the specified group have access to those licenses.

Note: If you use this option, you cannot use the INCLUDEALL option.

Examples

Define group

User name

```
GROUP rwusers user1 user2 user3
```

Host name

```
HOST_GROUP rwhosts host1 host2 host3
```

IP address

```
INTERNET_GROUP rwnetwork 110.120.*.* 130.*.*.*
```

Option INCLUDEALL

User name

```
INCLUDEALL group rwusers
```

Host name

```
INCLUDEALL host_group rwhosts
```

IP address

```
INCLUDEALL internet_group rwnetwork
```

Option RESERVE

User name

```
RESERVE 1 riverware GROUP rwusers
```

Host name

```
RESERVE 2 riverware HOST_GROUP rwhosts
```

IP address

```
RESERVE 3 riverware INTERNET_GROUP rwnetwork
```

5. When you are finished editing the file, select **Save Options File** to save the changes on the license server.
6. To activate your changes, the license server must reread the ISV Options file and restart. See [Restart the License Server](#) for instructions.

Restart the License Server

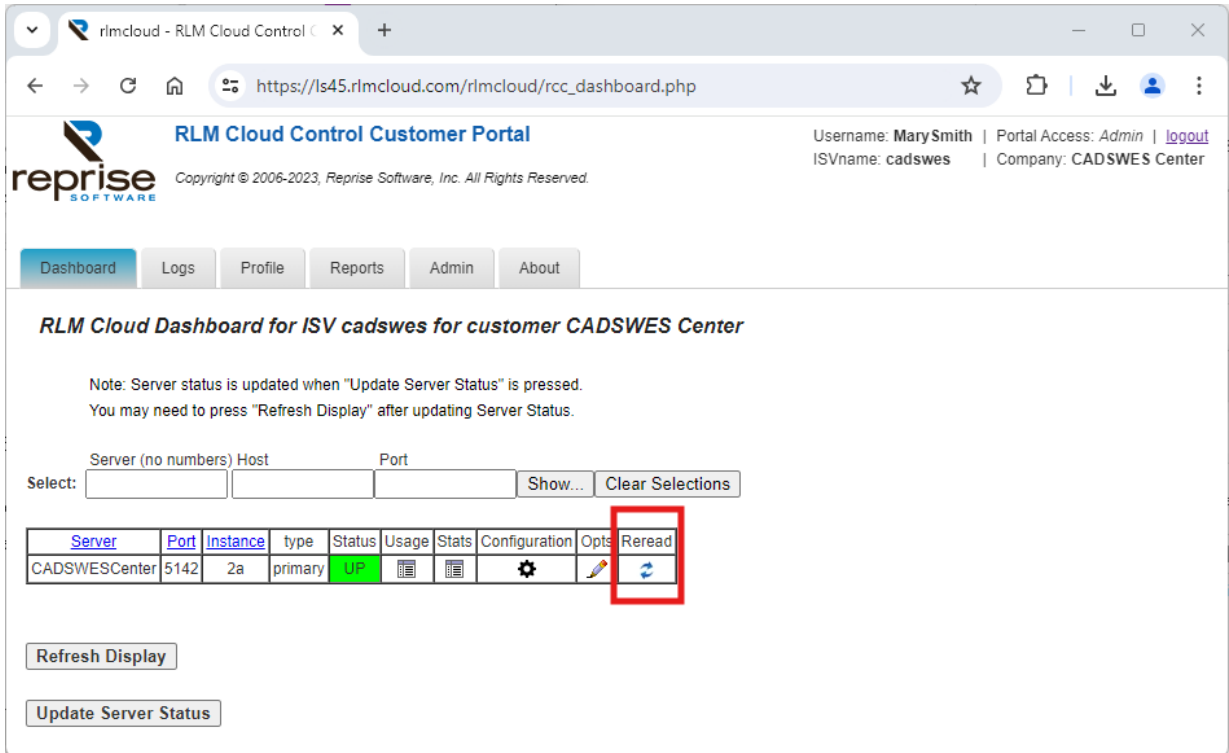
Use this procedure to reread your cloud license file and associated ISV options file, and restart your license server. You should use this procedure in the following situations:

- After making changes to your ISV options file.
- Anytime you suspect an issue with the license server.

1. Log in to your portal account.
2. Select the **Dashboard** tab.

The Dashboard appears.

3. Select the **Reread** button.



The screenshot shows the RLM Cloud Control Customer Portal interface. The browser address bar displays https://ls45.rlmcloud.com/rlmcloud/rcc_dashboard.php. The page header includes the Reprise Software logo, copyright information, and user details: Username: MarySmith, Portal Access: Admin, ISVname: cadswes, and Company: CADSWES Center. A navigation menu contains Dashboard, Logs, Profile, Reports, Admin, and About. The main content area is titled "RLM Cloud Dashboard for ISV cadswes for customer CADSWES Center". A note states: "Note: Server status is updated when 'Update Server Status' is pressed. You may need to press 'Refresh Display' after updating Server Status." Below the note is a form with "Server (no numbers) Host" and "Port" fields, and "Show..." and "Clear Selections" buttons. A table displays server information with columns: Server, Port, Instance, type, Status, Usage, Stats, Configuration, Opts, and Reread. The "Reread" column for the first row (CADSWESCenter) contains a circular refresh icon, which is highlighted with a red box. Below the table are "Refresh Display" and "Update Server Status" buttons.

Server	Port	Instance	type	Status	Usage	Stats	Configuration	Opts	Reread
CADSWESCenter	5142	2a	primary	UP					

View License Server Summary Statistics

Use this procedure to display summary statistics for your cloud license server, including total number of license checkouts and denials.

1. Log in to your portal account.
2. Select the **Dashboard** tab.
3. In the Dashboard display, select the **Stats** icon.

The license server statistics screen appears.

The screenshot shows a web browser window with the URL https://ls45.rlmcloud.com/rlmcloud/rcc_dash_stats.php. The page title is "RLM Cloud Control Customer Portal". The user is logged in as "MarySmith" with "Admin" access. The company is "CADSWES Center". The dashboard includes a navigation menu with "Dashboard", "Logs", "Profile", "Reports", "Admin", and "About". The main content area displays "RLM Statistics for server ls45.rlmcloud.com, port: 5142, customer: CADSWESCenter". A note states "Statistics are updated every time this page is refreshed." Below this, several system versions and log file settings are listed. A table shows server statistics for three time periods: Since Start, Since Midnight, and Recent. At the bottom, there are buttons for "Back to Main Dashboard" and "Refresh this page".

reprise
SOFTWARE

RLM Cloud Control Customer Portal

Copyright © 2006-2023, Reprise Software, Inc. All Rights Reserved.

Username: [MarySmith](#) | Portal Access: [Admin](#) | [logout](#)
ISVname: [cadswes](#) | Company: [CADSWES Center](#)

Dashboard Logs Profile Reports Admin About

RLM Statistics for server ls45.rlmcloud.com, port: 5142, customer: CADSWESCenter

Note: Statistics are updated every time this page is refreshed.

cadswes software version: v15.2 (build:1)
cadswes settings version: v14.2 (build:5)
cadswes comm version: v1.2
writing debug log file: yes
writing report log file: yes

Server Statistics	Since Start	Since Midnight	Recent
Start Time	07/08 20:41:54	07/08 20:41:54	07/08 21:12:02
Messages	31 (0/sec)	31 (0/sec)	2 (2/sec)
Connections	7 (0/sec)	7 (0/sec)	1 (1/sec)
Checkouts	1 (0/sec)	1 (0/sec)	0 (0/sec)
Denials	2 (0/sec)	2 (0/sec)	0 (0/sec)
License Removals	0 (0/sec)	0 (0/sec)	0 (0/sec)
Current Connections	2		

[Back to Main Dashboard](#)

[Refresh this page](#)

View License Server Configuration Details

Use this procedure to view details for your cloud license server and your RiverWare cloud license file.

3. Log in to your portal account.
4. Select the **Dashboard** tab.
5. In the Dashboard display, select the **Configuration** button (the gear icon). The license server configuration screen appears.

The screenshot shows a web browser window with the URL `https://ls45.rlmcloud.com/rlmcloud/rcc_serv_ops.php`. The page title is "RLM Cloud Control Customer Portal". The user is logged in as "MarySmith" with the role "Admin". The company is "CADSWES Center".

The navigation menu includes: Dashboard, Logs, Profile, Reports, Admin, About.

The main content area is titled "Server Configuration for customer CADSWES Center (CADSWESCenter)".

Server Information

- Server Machine Name: ls45.rlmcloud.com (54.219.79.18)
- Port: 5142
- License Server Instance: 2a (hex)
- Abbreviation Name: CADSWESCenter
- License Password: 221f5bpzgbf5s771

License for your users for this Server

The following line is all your users need in their license file to access the licenses on this server

```
CUSTOMER CADSWESCenter isv=cadswes server=ls45.rlmcloud.com port=5053 password=221f5bpzgbf5s771 or, for HTTPS:
CUSTOMER CADSWESCenter isv=cadswes server=ls45.rlmcloud.com port=443 password=221f5bpzgbf5s771
```

[Click to download license file](#) [Click to download HTTPS license file](#)

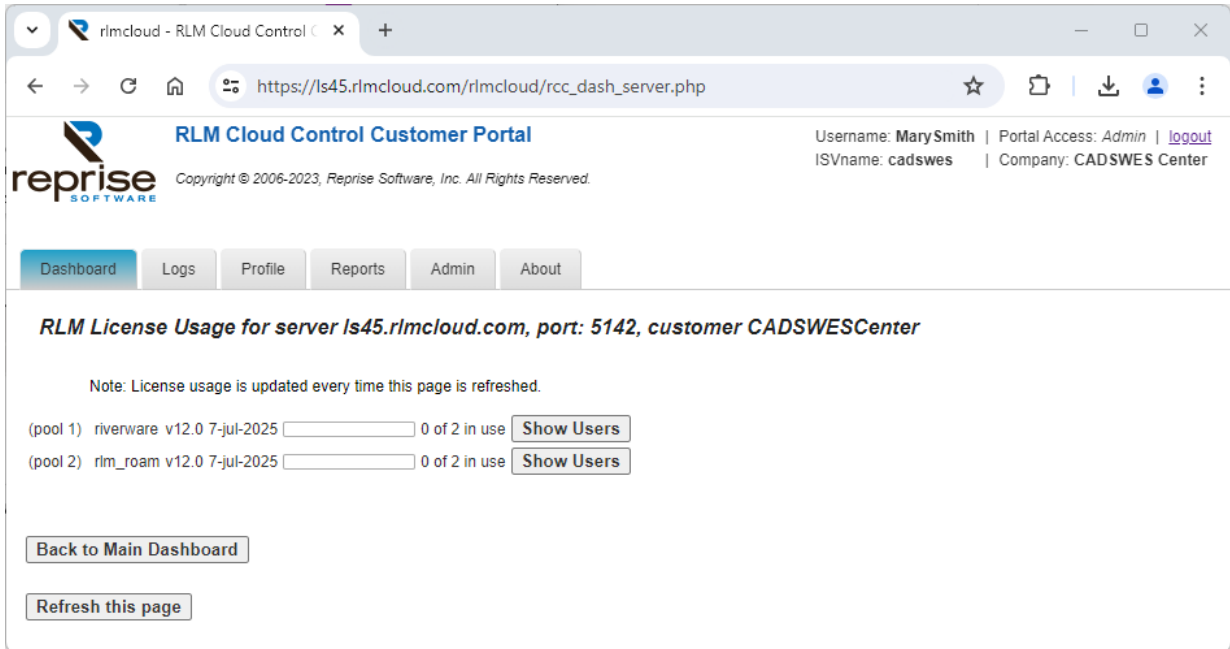
If not using HTTPS, these 2 TCP ports MUST be open for outgoing connections on their firewall: 5053 5142

[Back to Dashboard](#)

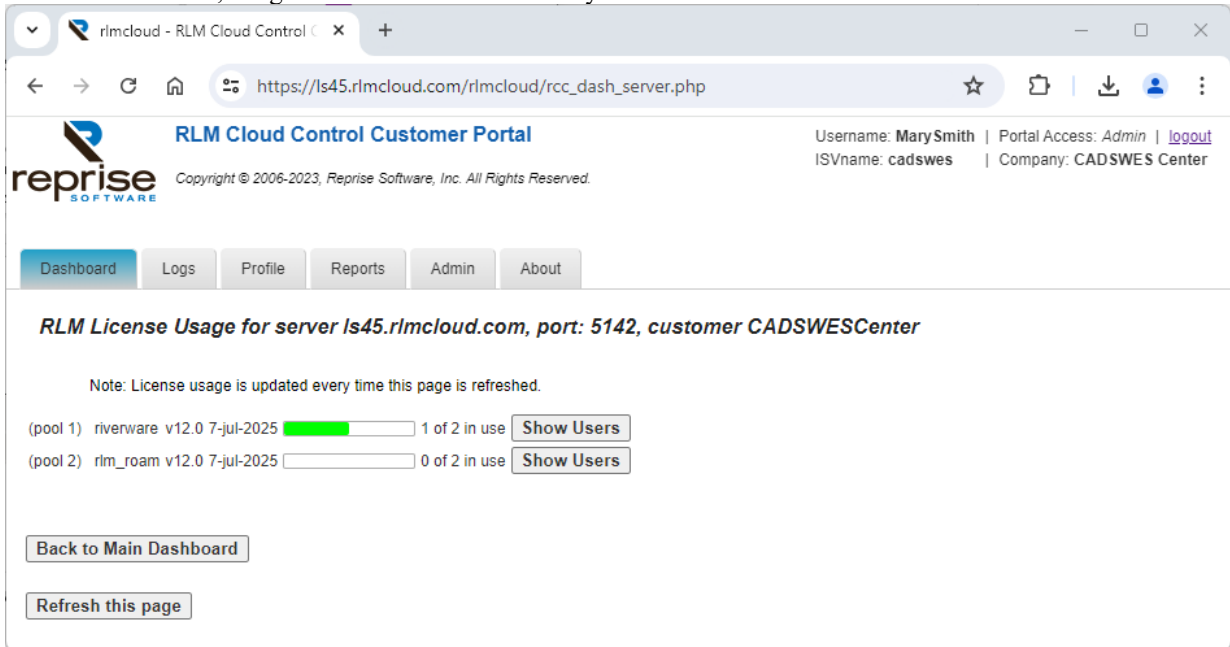
View License Server Usage Statistics

Use this procedure to display the number of cloud licenses in use in your organization, user names for each license, and when the license was checked out.

1. Log in to your portal account.
2. Select the **Dashboard** tab.
3. In the Dashboard display, select the **Usage** icon. The license usage screen appears.



If a license is in use, the green bar will show how many licenses are in use.



View and Manage License Server Logs

Use this procedure to view and manage report and debug logs for your license server. The report logs provide a record of license server activity. The debug logs may be helpful in troubleshooting issues with your license server.

1. Log in to your portal account.
2. Select the **Logs** tab.

The license server logs screen appears.

The screenshot shows the RLM Cloud Control Customer Portal interface. The browser address bar displays the URL https://ls45.rlmcloud.com/rlmcloud/rcc_logs.php. The page header includes the Reprise Software logo, the title "RLM Cloud Control Customer Portal", and user information: Username: MarySmith, Portal Access: Admin, and a [logout](#) link. Below the header is a navigation menu with buttons for Dashboard, Logs (selected), Profile, Reports, Admin, and About. The main content area is titled "Logs for ISV cadswes for customer CADSWES Center" and contains a brief instruction: "The Report Log section operates on the current report log. To view all the report logs for the server, press 'List'". Below this is a table with columns for Server, Port, Instance, Debug Log, and Report Log. The table contains one row for CADSWESCenter with port 5142 and instance 2a. The Debug Log column has buttons for View, Save, and Delete. The Report Log column has buttons for View, Save, Save All, Switch, Reset, and List. The View, Save, and Delete buttons in the Debug Log column, and the View, Save, Save All, Switch, and Reset buttons in the Report Log column are highlighted with red boxes.

Server	Port	Instance	Debug Log			Report Log					
CADSWESCenter	5142	2a	View	Save	Delete	View	Save	Save All	Switch	Reset	List

3. Select the following buttons to manage your log files:
 - **View:** Display the log file.
 - **Save:** Download the log file to your computer or virtual machine.
 - **Delete:** Delete the log file from the license server.

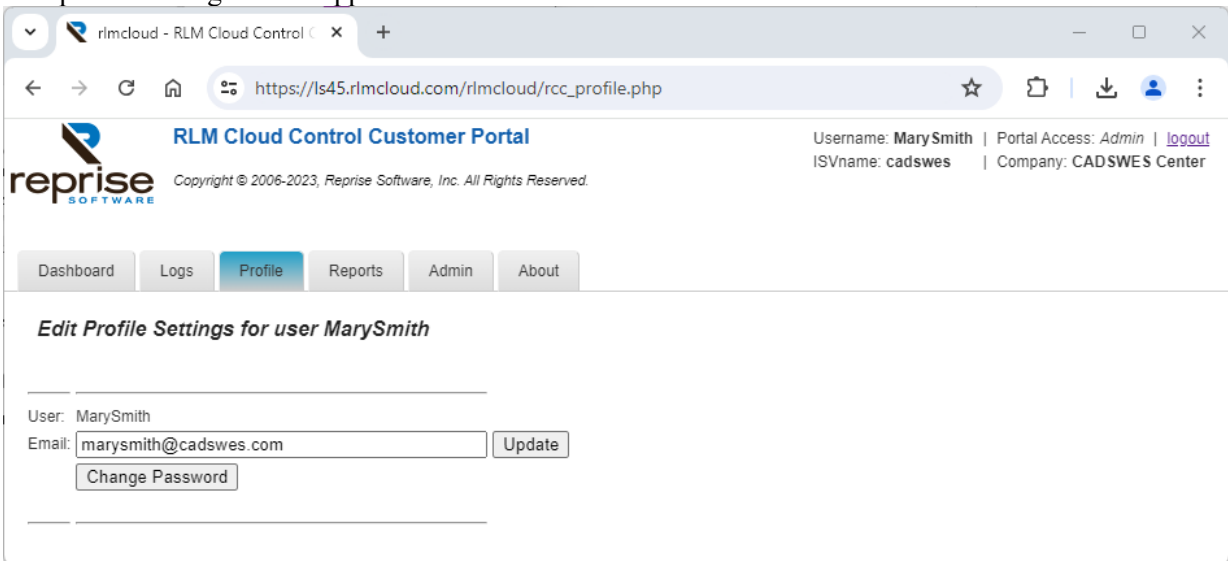
- **Save All** (Report Log only): Download a compressed file of all report logs on the license server.
- **Switch** (Report Log only): Create a new report log file and switch the display to that file.
- **Reset** (Report Log only): Reset the display to a different report log file.
- **List** (Report Log only): List all report logs for the license server.

View and Update Your License Administrator Profile

Use this procedure to view your administrator profile settings and optionally change your email address or password.

1. Log in to your portal account.
2. Select the **Profile** tab.

The profile settings screen appears.

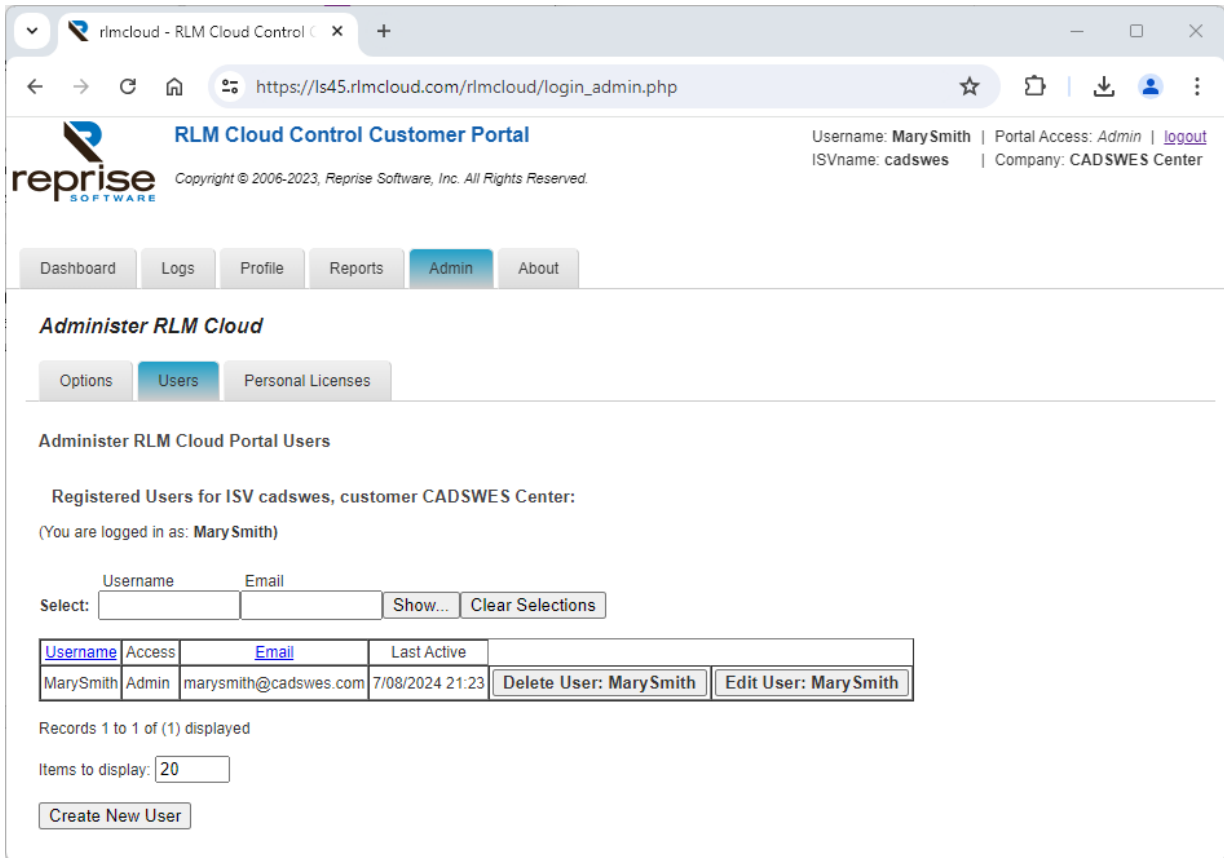


3. Update your information as follows:
 - To change your email address, enter the new address and select **Update**.
 - To change your password, select **Change Password**, and complete the form.

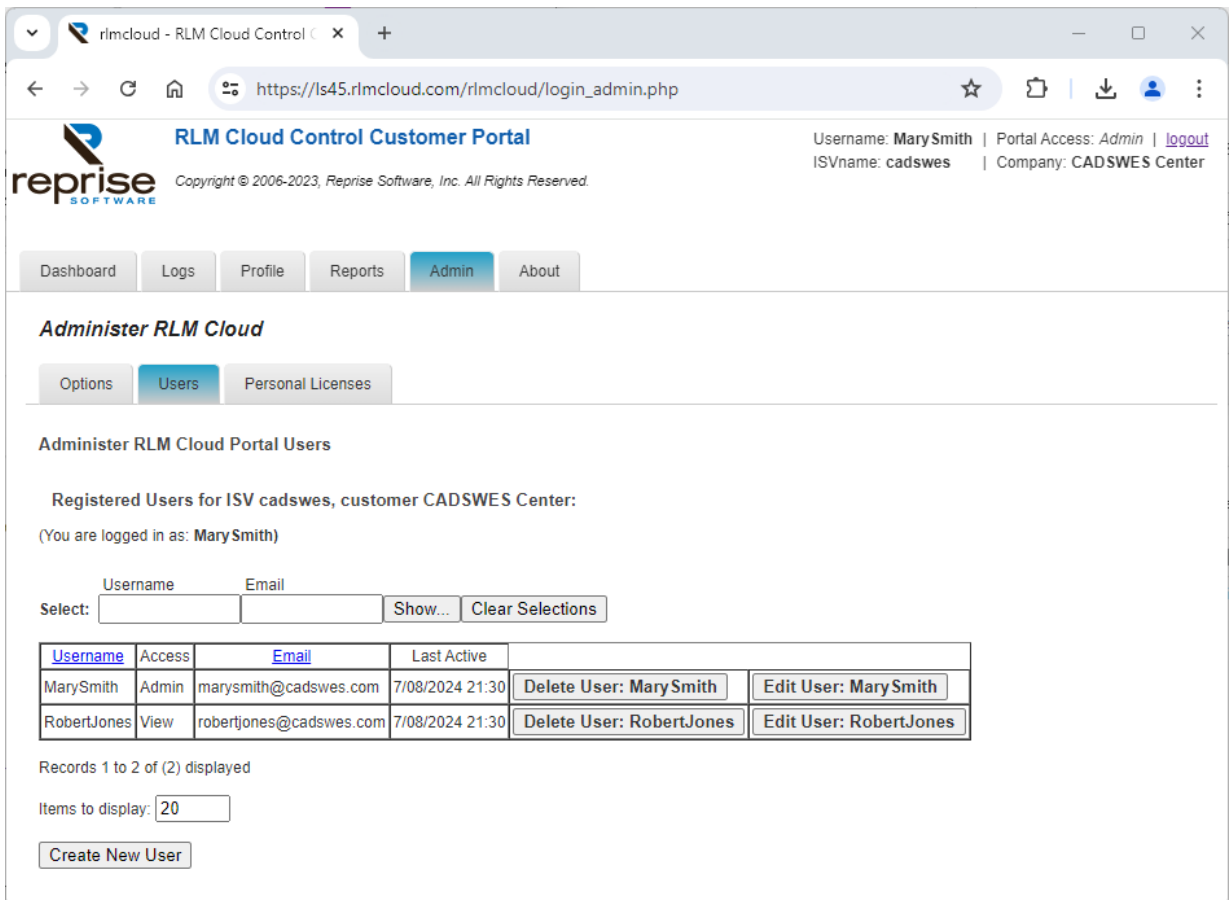
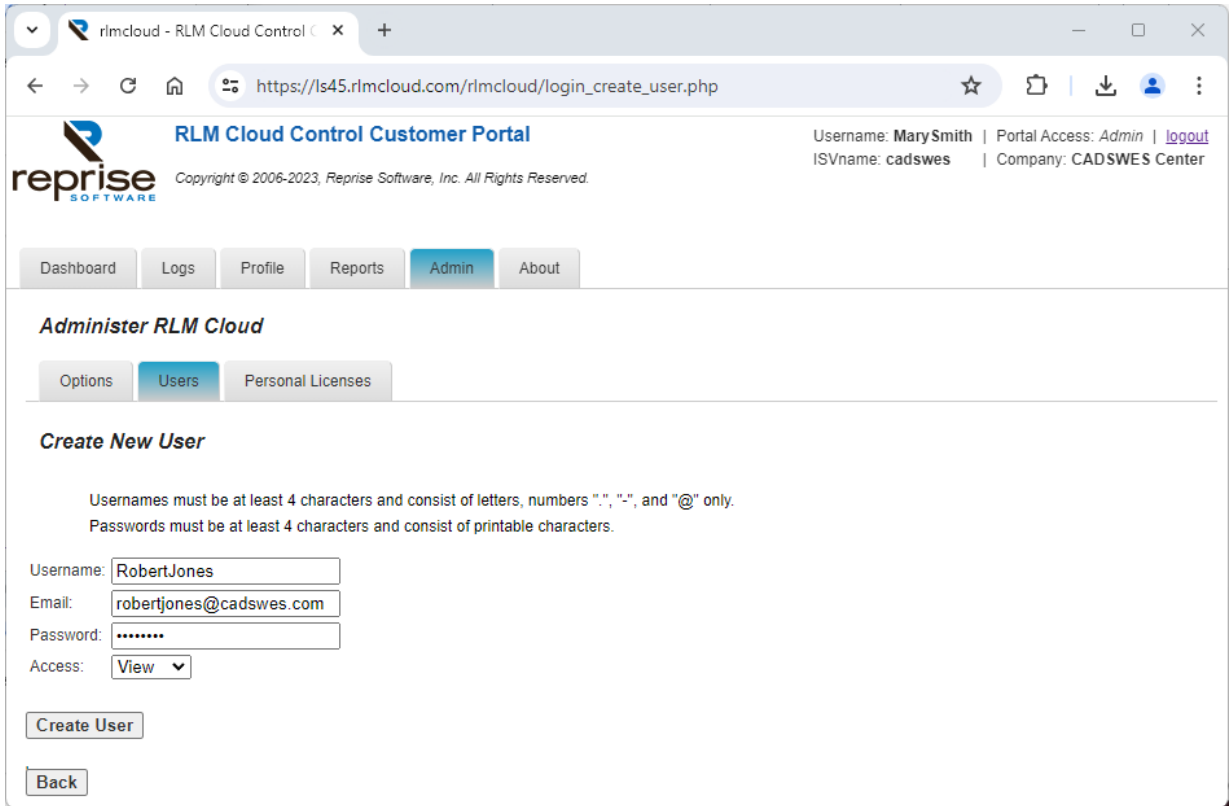
Administer Portal Users

You can use the Admin > Users page to edit, add, or delete portal users. Your initial portal user account was set up as an Admin user. Therefore, you can create or delete additional portal users if necessary. You can also change the user password and Access permission from this page.

1. Log in to your portal account.
2. Select the Admin tab, then the Users tab.



3. Select the Create New User tab.
 - Enter the Username, Email, and Password.
 - Select a Access permission from the drop-down list.
 - Select Create User tab.
 - The new user will be displayed on the Users page.



4. To reset the password or change the access permission of an existing user, from the Users page, select RiverWare Cloud License Portal User Guide

the Edit User: tab and then change in the Edit User page.

The screenshot shows a web browser window with the URL https://ls45.rlmcloud.com/rlmcloud/login_edit_user.php. The page title is "RLM Cloud Control Customer Portal". The Reprise Software logo is in the top left, and the copyright notice "Copyright © 2006-2023, Reprise Software, Inc. All Rights Reserved." is below it. The top right corner displays user information: "Username: MarySmith | Portal Access: Admin | [logout](#)" and "ISVname: cadswes | Company: CADSWES Center". A navigation menu includes "Dashboard", "Logs", "Profile", "Reports", "Admin" (highlighted), and "About". Below the menu, the "Administer RLM Cloud" section has sub-tabs for "Options", "Users" (highlighted), and "Personal Licenses". The "Edit User" section contains a password requirement note: "Passwords must be at least 4 characters and consist of printable characters only." The form fields are: "Username: MarySmith", "Email: ", "Password: If left blank, old password will be unchanged", and "Access: ". At the bottom are "Edit User" and "Back" buttons.

Installing RiverWare and the License File

The information in this section applies to all users of the RiverWare application.

License File Name and Location

The RiverWare application verifies the license file whenever it starts. For the application to find the license file, the file must be located in the *default license folder*, which is the parent folder of the RiverWare installation folder (that is, one level directly above the installation folder). For example, if the RiverWare application is installed in C:\Program Files\CADSWES\RiverWare 9.5, the license file must be at: C:\Program Files\CADSWES\cadswes.lic

Since you may want to execute multiple versions of RiverWare, CADSWES recommends that you install all versions of RiverWare in subfolders under a single parent folder and locate the license file in the parent folder. By using this folder organization, you can upgrade from one version of RiverWare to another while maintaining just one copy of the license file. For example, to install RiverWare 9.4 and RiverWare 9.5 on your computer, you can create a parent folder C:\Program Files\CADSWES\ to contain the license file and subfolders for each version. For example:

```
C:\Program Files\CADSWES\cadswes.lic  
C:\Program Files\CADSWES\RiverWare 9.4  
C:\Program Files\CADSWES\RiverWare 9.5
```

Download and Install RiverWare

Use this procedure to download and install RiverWare on your computer or virtual machine. You must have an internet connection to perform this procedure.

Note: This is a summary of the installation procedure. For complete instructions, see the *RiverWare Installation and License User's Guide* at the following URL:

<https://riverware.org/guides/RWInstallLicenseUG.pdf>

1. Open a web browser and go to the following URL:
<https://riverware.org/releases>
2. Select the version of RiverWare you want to install.
3. In the Authentication Required dialog, enter the user name and password provided by CADSWES and select **OK**.

Note: The login user name and the password are delivered to you by email, along with your license file.

4. Save the download to your computer or virtual machine.
5. Start the RiverWare installation program and install the software. See the *RiverWare Installation and License User's Guide* for detailed instructions.

7/31/2025