

PSUM 3.0 Administrative Roles and Users

2.6.1 How does the administrative access work?

To manage a PrivateServer installation you have to use primarily the web interface. The web interface authenticates the users manages authorizations so you can profile each user for a single management goal. Before starting we should clarify some basic concepts. The management console access is based on three pillars:

1. Users
2. Roles
3. Request Maps

Each one of these is configurable to provide the maximum flexibility in the authorization and access management process.

2.6.1.1 What is a User?

A **User** is holding a single account that can be logged in with a pair of username and password. After logging in the user can perform a management task based on his/hers roles.

2.6.1.2 What is a Role?

A **Role** defines the actions to be authorized on. Users can be granted one or more roles, depending on their duties in managing PrivateServer.

Two kinds of roles are defined:

- **ROLE_XXX**: defines a coarse-grained role, granting authorizations to sets of features
- **ROLE__RIGHT_YYY**: defines fine-grained role, typically authorizing to single feature

2.6.1.3 What is a "Request Map"?

The **Request Maps** are matrices that join a role with an allowed action. Any action is in URI form (as all the Web management console is actually web based).

Assigning request maps to roles, preconfigured or new ones, let you change behavior of application in unexpected way at runtime, without changes to sources or waiting for a new release. The downside is that deep knowledge of PrivateServer internals is required, so consult with us for help or debug yourself the URL accessed from browser.

2.6.2 Managing Roles

You can access to the Roles management interface using the **Role** entry in the menu on the left.

After you selected it you will be redirected to the **Role List** page.

By default you have the following roles:

- **Coarse grained**
 - **ROLE_ADMIN**: grants rights to every management features of PrivateServer
 - **ROLE_SUPERADMIN**: grants rights to very technical features and access to internal, generally not required to normal usage, even by administrator
 - **ROLE_TEST**: management of ranges of TEST accounts, required for stress test suite to assess capability of your infrastructure
 - **ROLE_USER**: grants rights to manage voip users and groups
- **Fine grained**
 - **ROLE__RIGHT_ACCESSCONTROL**: management of roles
 - **ROLE__RIGHT_AUDITLOG**: access to auditing logs
 - **ROLE__RIGHT_AUTHENTICATION**: access to web session logs
 - **ROLE__RIGHT_BACKUP**: management of backup and restore
 - **ROLE__RIGHT_CERTIFICATE**: management of digital certificates
 - **ROLE__RIGHT_CONFERENCE**: management of conference rooms
 - **ROLE__RIGHT_CONFERENCE_RO**: read-only access to conference rooms info
 - **ROLE__RIGHT_CDR**: access to Call Detail Record logs
 - **ROLE__RIGHT_GROUP**: management of groups
 - **ROLE__RIGHT_GROUP_RO**: read-only access to group info
 - **ROLE__RIGHT_NETWORK**: management of network-related configuration, such as net interfaces, NAT, RTP
 - **ROLE__RIGHT_REQUESTMAP**: management of request maps
 - **ROLE__RIGHT_REST**: provides access to web services REST requests
 - **ROLE__RIGHT_SIPSESSION**: access to SIP sessions logs
 - **ROLE__RIGHT_SECURITY_INFO**: access to internals info of access control framework
 - **ROLE__RIGHT_TELEPHONY**: configuration of SIP trunks and dialing rules
 - **ROLE__RIGHT_USER**: management of web console's users and assignment of roles
 - **ROLE__RIGHT_VOIPACCOUNT**: management of VoIP accounts
 - **ROLE__RIGHT_VOIPACCOUNT_RO**: read-only access to VoIP accounts info

When you create users, you can assign multiple roles to grant him/her proper right to features, depending on their duties in managing a PrivateServer installation

2.6.2.1 Create

Create Role

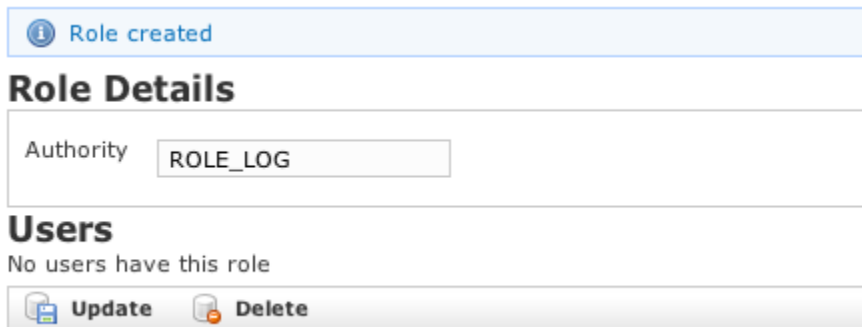
Role Details



A screenshot of the 'Create Role' form. It features a text input field labeled 'Authority' with a light gray border. Below the input field is a button with a blue document icon and the text 'Create'.

Figure 1. Create Role form

To create a new role just click on the "New Role" button on the top of the list. You will be taken to the "Create Role" form page (as shown in figure above). Insert "ROLE_LOG" in the **Authority** field and click **Create**.



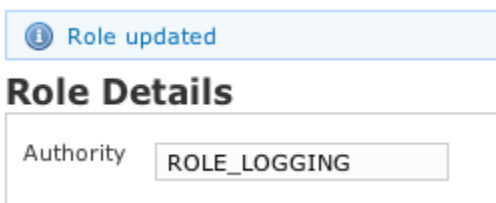
A screenshot of the 'Edit Role' form. At the top, a light blue notification bar with an information icon and the text 'Role created' is visible. Below it is the 'Role Details' section with a text input field labeled 'Authority' containing the text 'ROLE_LOG'. Underneath is the 'Users' section with the text 'No users have this role'. At the bottom, there are two buttons: 'Update' with a blue document icon and 'Delete' with a red trash can icon.

Figure 2. Edit Role form

The "Edit Role" page is shown above with a label notifying you about the creation of the role and a warning in the lower part which says **No users have this role**.

2.6.2.2 Update

Back in the "Role List", select the "ROLE_LOG" and get the "Edit Role" form. Change the "Authority" field from "ROLE_LOG" to "ROLE_LOGGING" and press "Update". The "Edit Role" form is reloaded with the updated value and a label warns you about the action.



A screenshot of the 'Edit Role' form after an update. A light blue notification bar at the top shows an information icon and the text 'Role updated'. The 'Role Details' section has a text input field labeled 'Authority' containing the text 'ROLE_LOGGING'. The 'Users' section and the 'Update'/'Delete' buttons are not visible in this cropped view.

Figure 3. The role is updated

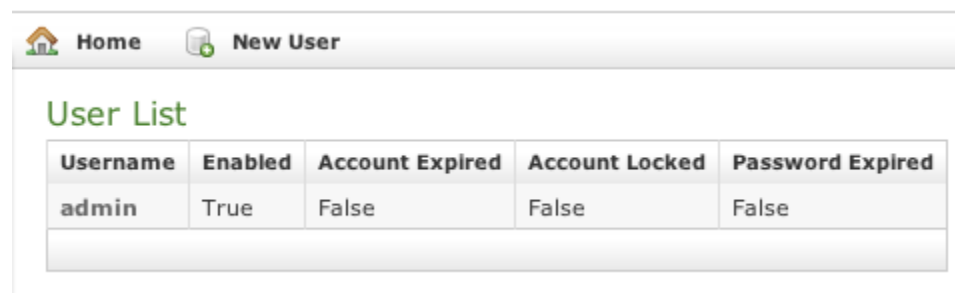
2.6.2.3 Delete

Now click on the "Delete" button below the form. The warning pop up windows asks your confirmation. Press the **Ok** button to delete the Role.

2.6.3 Managing users

2.6.3.1 Create

Clicking the "User" entry in the left menu under the "Access Control" section will take you to a page like the one shown below.

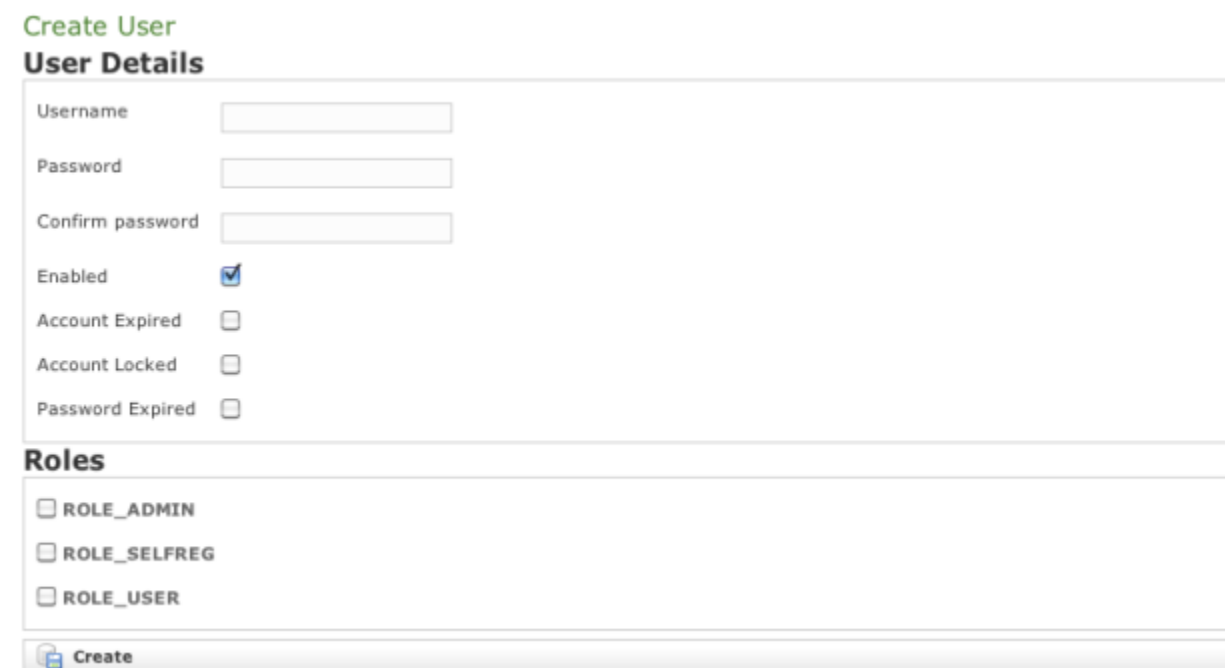


The screenshot shows the 'User List' page in a web console. At the top, there is a navigation bar with 'Home' and 'New User' links. Below the navigation bar, the title 'User List' is displayed. A table lists the users, with columns for Username, Enabled, Account Expired, Account Locked, and Password Expired. The 'admin' user is listed with Enabled: True, Account Expired: False, Account Locked: False, and Password Expired: False.

Username	Enabled	Account Expired	Account Locked	Password Expired
admin	True	False	False	False

Figure 4. Web Console User interface

This table shows you all users. By default you should see at least the **admin** one. To create a new User just click on the **New User** button.



The screenshot shows the 'Create User' form. It has a title 'Create User' and a section 'User Details'. The 'User Details' section contains fields for Username, Password, and Confirm password, each with a text input box. Below these fields are checkboxes for Enabled (checked), Account Expired, Account Locked, and Password Expired. The 'Roles' section contains three checkboxes: ROLE_ADMIN, ROLE_SELFREG, and ROLE_USER. At the bottom, there is a 'Create' button.

Create User

User Details

Username

Password

Confirm password

Enabled ☒

Account Expired ☐

Account Locked ☐

Password Expired ☐

Roles

☐ ROLE_ADMIN

☐ ROLE_SELFREG

☐ ROLE_USER


Figure 5. Create User form

You will be taken to the "Create User" form as shown in figure above. Fill in the fields **Username**, **Password** and **Confirm Password** with your chosen user name. You also need to select a proper Role to be assigned. Check the chosen Role and click on the **Create** button.



If you do not select a strong password then you get a blocking warning complaining about a weak password.

Create User

 Chosen password is not strong enough. It should be 8 characters long and contains both letters and numbers

User Details

Username


Password

Chosen password is not strong enough. It should be 8 characters long and contains both letters and numbers

Figure 6. The warning about a weak password

Change the password to a stronger one (a good example is "Pr1v4t3_yes!" without quotes). A new page called **Edit User** is shown (please refer to figure below). This means the user was successfully created.

Edit User

 User created

User Details

Username

Password

Confirm password

Enabled☒

Account Expired☐

Account Locked☐


Password Expired☐

Roles

☒ ROLE_ADMIN

☒ ROLE_USER

☐ ROLE_SELFREG

 Update


 Delete

Figure 7. Edit User form

The new user is listed in the "User List" table.

2.6.3.2 Update

From the **User List** table select the **test** user to get back to the **Edit User** form. Change the user name from **test** to **testone** and press the **Update** button below. The form is reloaded with the updated field and a label appears informing that you've performed an update action. Also in the **User List** table shows the new user name.

 User updated

Figure 8. User updated label

2.6.3.3 Delete

Click again on the user entry (**testone**) from the list to get back to the **Edit User** form. This time click on the **Delete** button. A confirmation pop up window will be shown. Select **Ok** to be taken back again to the User list: the deleted user is not present any more.