

Chapter 24

Configuring User Access with the SRC CLI

This chapter contains information about how to configure user access to the SRC software and how to configure an announcement for users to see at login using the SRC CLI.

You can configure user access to the SRC software using the C-Web interface. See *SRC-PE C-Web Interface Configuration Guide, Chapter 4, Configuring User Access with the C-Web Interface*.

Topics in this chapter include:

- Overview of SRC User Accounts on page 171
- Login Classes for User Accounts with the SRC CLI on page 172
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- Configuring User Accounts with the SRC CLI on page 183
- Configuring a System Login Announcement with the SRC CLI on page 189

Overview of SRC User Accounts

All users who can log in to the SRC software must be a member of a login class. With login classes, you define the following:

- Access privileges users have when they are logged in to the SRC software
- Commands and statements that users can and cannot specify
- How long a login session can be idle before it times out and the user is logged out.

You can define any number of login classes. You then apply one login class to an individual user account.

Login Classes for User Accounts with the SRC CLI

The SRC software provides four predefined login classes to use for configuring user accounts. You can also configure login classes to precisely define access privileges for the user accounts in your SRC environment.

Access Privilege Level

In the SRC CLI, each top-level command-line interface (CLI) command and each configuration statement have an access privilege level associated with them. Similarly, each task and subtask in the C-Web interface have an access privilege level associated with them. Users can configure and view only those tasks for which they have access privileges. The access privileges for each login class are defined by one or more *permission options*.

Permission options specify which actions are allowed for users assigned to use a login class. More than one permission option can be configured for a login class. Table 12 lists the permission options available when you configure permissions with the SRC CLI and the C-Web interface.

You can use the SRC CLI or the C-Web interface to configure permission options for all commands, statements, tasks, and subtasks. For example, if you configure a user to have the **system** permission class using the C-Web interface, that user will have the same permission when accessing the SRC CLI.

The privilege level for each command and statement is listed in *SRC-PE CLI Command Reference*.

The SRC software also provides a default set of system login classes that have permissions preset. Table 12 on page 172 lists the default system login classes.

Table 12: Login Class Permission Options

Permission	Description
admin	SRC CLI—Can view user account information in configuration mode and with the show configuration command. C-Web interface—Can view user account information by accessing the Monitor > CLI > Authorization .
admin-control	SRC CLI—Can view user accounts and configure them at the [edit system login] hierarchy level. C-Web interface—Can view user accounts and configure them by accessing Configure > System > Login .
all	SRC CLI and C-Web interface—Has all permissions.
clear	SRC CLI—Can clear (delete) information learned from the network that is stored in various network databases using the clear commands. C-Web interface—Can clear (delete) information learned from the network that is stored in various network databases by accessing Manage > Clear .
configure	SRC CLI—Can enter configuration mode using the configure command. C-Web interface—Can access the Configure task and subtasks.

Table 12: Login Class Permission Options (continued)

Permission	Description
control	SRC CLI and C-Web interface—Can perform all control-level operations (all operations configured with the <code>-control</code> permission).
field	SRC CLI and C-Web interface—Reserved for field (debugging) support.
firewall	SRC CLI—Can view the firewall filter configuration in configuration mode. C-Web interface—Can view the firewall filter configuration by accessing Monitor > SAE > Services .
firewall-control	SRC CLI—Can view and configure firewall filter information at the <code>[edit firewall]</code> hierarchy level. C-Web interface—Can view and configure firewall filter information by accessing Configure > Services .
interface	SRC CLI—Can view the interface configuration in configuration mode and with the <code>show configuration</code> operational mode command. C-Web interface—Can view the interface configuration by accessing Monitor > Interfaces .
interface-control	SRC CLI—Can view chassis, class of service, groups, forwarding options, and interfaces configuration information. Can configure chassis, class of service, groups, forwarding options, and interfaces at the <code>[edit]</code> hierarchy level. C-Web interface—Can view chassis, class of service, groups, forwarding options, and interfaces configuration information. Can configure chassis, class of service, groups, forwarding options, and interfaces by accessing the Configure task and subtasks.
maintenance	SRC CLI—Can perform system maintenance, including starting a local shell on the system and becoming the superuser in the shell (by issuing the <code>su root</code> command), and can halt and reboot the system (using the <code>request system</code> commands). C-Web interface—Can perform system maintenance, including halting and reboot the system, by accessing Manage > Request > System .
network	SRC CLI and C-Web interface—Can access the network by entering the <code>SSH</code> and <code>telnet</code> commands.
reset	SRC CLI—Can restart software processes using the <code>restart</code> command, enable components using the <code>enable</code> command, and disable components using the <code>disable</code> command. C-Web interface—Can restart software processes by accessing Manage > Restart , enable components by accessing Manage > Enable , and disable components by accessing Manage > Disable .
routing	SRC CLI—Can view general routing information in configuration and operational modes. C-Web interface—Can view general routing information by accessing Monitor > SAE > Route .
routing-control	SRC CLI—Can view and configure general routing at the <code>[edit routing-options]</code> hierarchy level. C-Web interface—Can view general routing and configure general routing by accessing Configure > Routing Options .
secret	SRC CLI and C-Web interface—Can view passwords and other authentication keys in the configuration.

Table 12: Login Class Permission Options (continued)

Permission	Description
secret-control	<p>SRC CLI—Can view passwords and other authentication keys in the configuration and can modify them in configuration mode.</p> <p>C-Web interface—Can view passwords and other authentication keys in the configuration and can modify them by accessing Configure > System > Login.</p>
security	<p>SRC CLI—Can view security configuration in configuration mode and with the show configuration operational mode command.</p> <p>C-Web interface—Can view security configuration by accessing Monitor > Security > Certificate.</p>
security-control	<p>SRC CLI—Can view and configure security information at the [edit security] hierarchy level.</p> <p>C-Web interface—Can view security information and configure security information by accessing Manage > Request > Security.</p>
service	<p>SRC CLI and C-Web interface—Can view service and policy definitions.</p> <p>C-Web interface—Can view service definitions by accessing Monitor > SAE > Services and policy definitions by accessing Monitor > SAE > Policies.</p>
service-control	<p>SRC CLI—Can view and modify service and policy definitions.</p> <p>C-Web interface—Can view and modify service and policy definitions by accessing Configure > Services and Configure > Policies.</p>
shell	<p>SRC CLI and C-Web interface—Can start a local shell by entering the start shell command.</p>
snmp	<p>SRC CLI—Can view Simple Network Management Protocol (SNMP) configuration information in configuration and operational modes.</p> <p>C-Web interface—Can view Simple Network Management Protocol (SNMP) configuration information by accessing Monitor > SAE > Statistics.</p>
snmp-control	<p>SRC CLI—Can view SNMP configuration information and configure SNMP (at the [edit snmp] hierarchy level).</p> <p>C-Web interface—Can view SNMP configuration information and configure SNMP by accessing Configure > SNMP.</p>
subscriber	<p>SRC CLI—Can view information about subscriber definitions.</p> <p>C-Web interface—Can view information about subscriber definitions by accessing Monitor > SAE > Subscribers.</p>
subscriber-control	<p>SRC CLI —Can view and control information about subscriber definitions.</p> <p>C-Web interface—Can view information about subscriber definitions and control information about subscriber definitions by accessing Configure > Subscribers.</p>

Table 12: Login Class Permission Options (continued)

Permission	Description
system	SRC CLI—Can view system-level information in configuration and operational modes. C-Web interface—Can view system-level configuration information by accessing Monitor > System .
system-control	SRC CLI—Can view system-level configuration information and configure it at the [edit system] hierarchy level. C-Web interface—Can view system-level configuration and configure it by accessing Configure > System .
view	SRC CLI—Can use various commands to display current systemwide, routing table, and protocol-specific values and statistics. C-Web interface—Can access various Monitor subtasks to display current systemwide, routing table, and protocol-specific values and statistics.
view-configuration	SRC CLI and C-Web interface—Can view all system configurations, excluding any secret configuration.

When you configure more than one permission, the resulting set of permissions is a combination of all of the permissions set, except for **all** and **control**.

When you configure permissions, include **view** to display information and **configure** to enter configuration mode. Two forms for the permissions control the individual parts of the configuration:

- “Plain” form—Provides read-only capability for that permission type. An example is **interface**.
- Form that ends in **-control**—Provides read and write capability for that permission type. An example is **interface-control**.

Predefined Login Classes

Table 13 lists the system login classes predefined in the SRC software.

Table 13: Default System Login Classes

Login Class	Permission Options Set
operator	clear, network, reset, view
read-only	view
super-user	all
unauthorized	None



NOTE: You cannot modify a predefined login class name. If you issue the `set` command on a predefined class name with the SRC CLI, the software will append `-local` to the login class name. The following message also appears:

warning: '<class-name>' is a predefined class name; changing to '<class-name>-local'

NOTE: You cannot issue the `rename` or `copy` command on a predefined login class with the SRC CLI. Doing so results in the following error message:

error: target '<classname>' is a predefined class

Access to Individual Commands and Configuration Statements with the SRC CLI

By default, all top-level CLI commands have associated access privilege levels. Users can execute only those commands and view only those statements for which they have access privileges. For each login class, you can deny or allow the use of specified operational and configuration mode commands that would otherwise be permitted or not allowed by a specified privilege level.

Regular Expressions for Allow and Deny Statements

You can use extended regular expressions to specify which commands to allow or deny. By using extended regular expressions, you can list a number of commands in each statement.

You specify these regular expressions in the following statements at the [edit system login class] hierarchy level:

- `allow-commands`
- `deny-commands`
- `allow-configuration`
- `deny-configuration`

Command regular expressions implement the extended (modern) regular expressions as defined in POSIX 1003.2. Table 14 lists common regular expression operators.

Table 14: Common Regular Expression Operators to Allow or Deny Operational Mode and Configuration Mode Commands

Operator	Match
Operation Mode and Configuration Mode	
	One of the two terms on either side of the pipe.
^	Character at the beginning of an expression. Used to denote where the command begins, where there might be some ambiguity.
\$	Character at the end of a command. Used to denote a command that must be matched exactly up to that point. For example, <code>allow-commands "show interfaces\$"</code> means that the user can issue the <code>show interfaces</code> command but cannot issue <code>show interfaces detail</code> or <code>show interfaces extensive</code> .
[]	Range of letters or digits. To separate the start and end of a range, use a hyphen (-).
()	A group of commands, indicating an expression to be evaluated; the result is then evaluated as part of the overall expression.
Configuration Mode Only	
*	0 or more terms.
+	One or more terms.
.(dot)	Any character except for a space.

Guidelines for Using Regular Expressions

Keep in mind the following considerations when using regular expressions to specify which statements or commands to allow or deny:

- Regular expressions are not case-sensitive.
- If a regular expression contains a syntax error, authentication fails and the user cannot log in.
- If a regular expression does not contain any operators, all varieties of the command are allowed.

Follow these guidelines when using regular expressions:

- Enclose the following in quotation marks:
 - A command name or regular expression that contains:
 - Spaces
 - Operators
 - Wildcard characters

- An extended regular expression that connects two or more terms with the pipe (|) symbol. For example:

```
[edit system login class class-name]
user@host# set deny-configuration "(system login class) | (system
services)"
```

- Do not use spaces between regular expressions separated with parentheses and connected with the pipe (|) symbol.
- Specify the full paths in the extended regular expressions with the `allow-configuration` and `deny-configuration` options.



NOTE: You cannot define access to keywords such as `set` or `edit`.

Timeout Value for Idle Login Sessions

An idle login session is one in which the CLI operational mode prompt is displayed but there is no input from the keyboard. By default, a login session remains established until a user logs out of the system, even if that session is idle. To close idle sessions automatically, you configure a time limit for each login class. If a session established by a user in that class remains idle for the configured time limit, the session automatically closes.

For users who belong to a login class for which an idle timeout is configured, the CLI displays messages similar to the following when an idle user session times out.

```
user@host# Session will be closed in 5 minutes if there is no activity.
Warning: session will be closed in 1 minute if there is no activity
Warning: session will be closed in 10 seconds if there is no activity
Idle timeout exceeded: closing session
```

If you configure a timeout value, the session closes after the specified time has elapsed, except if the user is running commands such as `ssh`, `start shell`, or `telnet`.

The C-Web interface session closes after the specified time has elapsed with no message, and returns to the login window.

Configuring Login Classes with the SRC CLI

Before you configure a login class:

- Review the predefined login classes to determine whether you can use one of these classes rather than creating a new one.

See *Predefined Login Classes* on page 175.

- Make sure you are familiar with how to use regular expressions to specify which commands and configuration statements to allow or deny.

Consider that you can issue one **allow** statement and one **deny** statement for operation mode commands, and one **allow** statement and one **deny** statement for configuration mode commands. Use regular expressions in a statement to specify more than one command in a statement.

See *Regular Expressions for Allow and Deny Statements* on page 176.

Configuration Statements for Login Classes

Use the following configuration statements to configure login classes at the [edit] hierarchy level:

```
system login class name {
  allow-commands allow-commands;
  allow-configuration allow-configuration;
  deny-commands deny-commands;
  deny-configuration deny-configuration;
  idle-timeout idle-timeout;
  permissions
  [(admin | admin-control | all | clear | configure | control | field | firewall |
  firewall-control | interface | interface-control | maintenance | network | reset |
  routing | routing-control | secret | secret-control security | security-control |
  shell | snmp | snmp-control | system | system-control | view | view-configuration
  | service | service-control | subscriber | subscriber-control)...];
}
```

Configuring a Login Class

To configure a login class:

1. From configuration mode, access the configuration statement that configures login classes, and assign a name to the login class.

```
[edit]
user@host# edit system login class name
```

2. Specify the permissions for the login class.

```
[edit system login class name]
user@host# set permissions permissions
```

For example, the following statement specifies that the user-account class can configure and view only user accounts:

```
[edit system login class user-accounts]
user@host# set permissions [configure admin admin-control]
```

The following statement specifies that the network-mgmt class can configure and view only SNMP parameters:

```
[edit system login class network-mgmt]
user@host# set permissions [configure snmp snmp-control]
```

3. (Optional) Configure access to specified operational mode commands that would otherwise be denied.

```
[edit system login class name]
user@host# set allow-commands allow-commands
```

For example, the following statement specifies that the network-mgmt class can install system software:

```
[edit system login class network-mgmt]
user@host# set allow-commands "request system install"
```

4. (Optional) Deny access to specified operational mode commands that would otherwise be allowed.

```
[edit system login class class-name]
user@host# set deny-commands deny-commands
```

For example, the following statement specifies that the remote class cannot connect to the SRC software through Telnet:

```
[edit system login class remote]
user@host# set deny-commands telnet
```

5. (Optional) Configure access to specified configuration mode commands that would otherwise be denied.

```
[edit system login class name]
user@host# set allow-configuration allow-configuration
```

For example, the following statement specifies that the network-mgmt class can issue configuration mode commands at the [routing-options] hierarchy level:

```
[edit system login class network-mgmt]
user@host# set allow-configuration "routing options"
```

6. (Optional) Deny access to specified configuration mode commands that would otherwise be allowed.

```
[edit system login class name]
user@host# set deny-configuration deny-configuration
```

For example, the following statement specifies that the network-mgmt class does not have access to the [snmp address] hierarchy level:

```
[edit system login class network-mgmt]
user@host# set deny-configuration "snmp address"
```

7. Specify the number of minutes that a session can be idle before it is automatically closed.

```
[edit system login class class-name]
user@host# set idle-timeout minutes
```

8. Display the results of the configuration.

```
[edit system login]
user@host# show

class network-mgmt {
  allow-commands "request system install";
  allow-configuration routing-options;
  deny-configuration "snmp address";
}
class remote {
  deny-configuration "system services telnet";
  permissions all;
}
```

Examples: Configuring Access Privileges for Operational Mode Commands

The following example allows access to the `request system reboot` command for the login class `operator-and-boot` that has operator privileges defined by the `clear`, `network`, `reset`, and `view` permissions.

```
[edit system login class operator-and-boot]
user@host# set permissions [ clear network reset view ]
user@host# set allow-commands "request system reboot"
```

The following example denies access to `set` commands for the login class `operator-no-set` that has operator privileges defined by the `clear`, `network`, `reset`, and `view` permissions.

```
[edit system login class operator-no-set]
user@host# set permissions [ clear network reset view ]
user@host# set deny-commands "set"
```

The following example allows software installation but denies access to the `show nic` command for the login class `operator-no-set` that has operator privileges defined by the `clear`, `network`, `reset`, and `view` permissions.

```
[edit system login class operator-and-install-no-nic]
user@host# set permissions [ clear network reset view ]
user@host# set allow-commands "request system install"
user@host# set deny-commands "show nic"
```

Examples: Defining Access Privileges for Configuration Mode Commands

The following example does not allow access the C-series Controller through a Telnet session for the login class remote that has permission set to all:

```
[edit system login class remote]
user@host# set permissions all
user@host# set deny-configuration "system services telnet"
```

The following example does not allow access to any login class whose name begins with “m” for the login class local that has permission set to all:

```
[edit system login class local]
user@host# set permissions all
user@host# set deny-configuration "system login class m.*"
```

The following example does not allow access to configuration mode commands at the [system login class] or [system services hierarchy] levels for the login class config-admin that has permission set to all:

```
[edit system login class config-admin]
user@host# set permissions all
user@host# set deny-configuration "(system login class) | (system services)"
```

Configuring User Accounts with the SRC CLI

User accounts provide one way for users to access the system. For each account, you define the login name for the user, properties for the user account, and authentication information. After you create an account, the software creates a home directory for the user when the user logs in to the system for the first time.

Each user has a home directory on the C-series Controller, which is created the first time that the user logs in. Home directories that have the same name as the user ID are created in the */var/home* directory; for example, the home directory for a user with the user ID Chris_Bee is */var/home/Chris_Bee*.

Configuration Statements for User Accounts

Use the following configuration statements to configure user accounts at the [edit] hierarchy level.

```
system login user user-name {
  class class;
  full-name full-name;
  uid uid;
  prompt prompt;
  level (basic | normal | advanced | expert);
  complete-on-space (on | off);
}
```

```

system login user user-name authentication{
  plain-text-password;
  encrypted-password "password";
  ssh-authorized-keys [ssh-authorized-keys ...];
}

```

For detailed information about each configuration statement, see the *SRC-PE CLI Command Reference*.

Configuring a User Account

To configure a user account:

1. From configuration mode, access the configuration statement that configures a user account, and specify a username that identifies the user.

```

[edit]
user@host# edit system login user user-name

```

The username must be unique within the system. Do not include spaces, colons, or commas in the username. For example:

```

[edit]
user@host# edit system login user JASmith

```

```

[edit system login user JASmith]
user@host#

```

2. Specify the name of the login class that defines the user's access privilege. [edit system login user *user-name*]

```

[edit system login user user-name]
user@host# set class class

```

The login class is one of the login classes that you defined in the `class` statement at the [edit system login] hierarchy level, or one of the default classes listed in Table 7 on page 64.

3. Specify the user's full name.

```

[edit system login user user-name]
user@host# set full-name full-name

```

If the full name contains spaces, enclose it in quotation marks. Do not include colons or commas. For example:

```

[edit system login user JASmith]
user@host# set full-name "John A. Smith"

```

4. (Optional) Specify a user identifier (UID) for the user.

```
[edit system login user user-name]  
user@host# set uid uid
```

The identifier must be a number in the range 0 through 64,000 and must be unique within the system. If you do not assign a UID to a username, the software assigns one when you commit the configuration, preferring the lowest available number.

You must ensure that the UID is unique. However, it is possible to assign the same UID to different users.

5. (Optional) Specify a prompt that the user sees at the SRC CLI.

```
[edit system login user user-name]  
user@host# set prompt prompt
```

6. (Optional) Specify the editing level available to the user. The level determines which configuration commands are visible to the user.

```
[edit system login user user-name]  
user@host# set level (basic | normal | advanced | expert)
```

where:

- basic—Minimal set of configuration statements and commands— only the statements that must be configured are visible.
- normal—Normal set of configuration statements and commands— the common and basic statements are visible.
- advanced—All configuration statements and commands, including the common and basic ones, are visible.
- expert—All configuration statements, including common, basic, and internal statements and commands used for debugging, are visible.

7. (Optional) Specify whether entering a space completes a command.

```
[edit system login user user-name]  
user@host# set complete-on-space (on | off)
```

If you do not enter a value, **complete-on-space** is enabled by default.

8. Define the authentication methods that a user can use to log in to a C-series Controller.

See *Configuring Authentication for User Accounts* on page 186.

9. Display the results of the configuration.

```
[edit system login]
user@host# show
. . .
user JASmith {
  class network-mgmt;
  full-name "John A. Smith";
  uid 507;
  gid 100;
  authentication {
    encrypted-password "{crypt}caZEWDaE1au0c";
  }
  level normal;
  complete-on-space on;
}
```

Configuring Authentication for User Accounts

You can configure the following types of authentication for user accounts:

- Plain text password—Prompt for a plain text (unencrypted) password. The requirements for plain text passwords are:
 - Can contain between 6 and 128 characters
 - Can include most character classes in a password (uppercase letters, lowercase letters, numbers, punctuation marks, and other special characters).



NOTE: We do not recommend that the password include control characters. We do recommend that the password include at least one change of case or character class.

If you configure a plain text password, you are prompted to enter and confirm the password.

- Encrypted password—Password encoded with crypt. The format of encrypted passwords is "{crypt} < 13-characters in a-zA-Z0-9./> ".



NOTE: We recommend that you *do not* enter the password in encrypted format.

- SSH—SSH authentication. For SSH authentication, you can copy the contents of an SSH keys file into a CLI session.

Configuring a Plain Text Password

To configure a plain text password for a user account:

- At the [edit system user *user-name*] hierarchy, enter the set authentication plain text-password command. For example:

```
[edit system user JASmith]
user@host# set authentication plain-text-password
New password: type password here
Retype new password: retype password here
```

Configuring SSH Authentication

Before you configure SSH authentication, obtain the contents of SSH key files. You can copy the contents of an SSH keys file into a CLI session:

1. On a management machine such as a PC or personal workstation, create an ssh-rsa key:

```
> ssh-keygen
(provide input)
> cat ~/.ssh/id_rsa.pub
```

2. On the C-series Controller enter the set system login user testuser authentication ssh-authorized-key command, and paste in the SSH key:

```
user@host# set system login user testuser authentication ssh-authorized-key
"pasted content of id_rsa.pub"
```

For example:

```
user@host# set system login user testuser authentication
ssh-authorized-key "ssh-rsa
AAAAB3NzaC1yc2EAAAABlwAAAIEAvSqAWNdmTQJS9eqG1eq
RANI3ML4hH+u7WX/HPOW82gDSPpjhnt1e5de3D8UkullIEUBf1obgy/7AK
c98FqAlvVp5onCiMg8ELD6
RYkgOgo7U6zERB25qy3sK1Rn9NzrB20qLzvbAcZW1NlePmf1R99d/Rge7k
B/5k6fq3NOG0fc= id@server" "ssh-rsa
AAAAB3NzaC1yc2EAAAABlwAAAIEAxIwe9HfZ78vdfq1+AY0uCF79yGPxGu
w
GZd9QVdT+dnwGh/4HwLITvKd8SYrhMJsyz5dWuZm94JSwQosm9BVhJw
REt39NYikLWOjGIMkk8Cw4
TkpFfelz1cSbeFxtFBFVaBbo4YkEv5ltbuxwvbTWURkvsQa2VJXAqIs7z8=
id2@server2
erian" "ssh-rsa
AAAAB3NzaC1yc2EAAAABlwAAAIEAwwOoUD4m+SazgzF2kRlq5Y2+lx2zQb
CxqBS
D1rmW92eLPOQIBv/sEy2d8UNeHpoKot9Px8q9ABriOyONc7vqNsSVnAMyi
cQB786uHoabSErVIYscapT
YvIgg+olbdhKySbSxOoXMehhgoQS0JZxHCbxsQJip7/7vJPCjRGU8Xq0=
id@server3" ];
```

Changing the root Password

An account for the user `root` is always present in the configuration. Only the root user can change the root password.

To change the `root` password:

1. Log into the SRC software as `root`.
2. From operational mode, change the `root` password.

```
root@host> set cli password
Changing password for user root.
New UNIX password:
```

You can also create a regular account for `root` and set the SSH key there. The class for `root` is always `super-user`—if you create an account for `root`, the class is ignored.

Example: User Accounts

The following example shows the configuration for user accounts for three system users and the template user “remote.” All users use one of the default system login classes.

```
system login user philip {
  class super-user;
  full-name "Philip of Macedonia";
  uid 1001;
  authentication {
    encrypted-password "{crypt}6YPqJe88Wz5fQ";
    ssh-authorized-keys [ "ssh-rsa
AAAAB3NzaC1yc2EAAAABIwAAAIEAvSqAWNMTQJS9eqG1eq
RANI3ML4hH+u7WX/HP0W82gDSPpjhnt1e5de3D8UkullEUBf1obgy/7AK
c98FqAlvVp5onCiMg8ELD6
RYkgOgo7U6zERB25qy3sK1Rn9NzrB20qLzbvAcZW1NlePmf1R99d/Rge7k
B/5k6fq3NOG0fc= id@server" "ssh-rsa
AAAAB3NzaC1yc2EAAAABIwAAAIEAxIwe9HfZ78vdbfq1+AY0uCF79yGPxgGu
w
GZd9QVdT+dnwGh/4HwLITvKd8SYrhmJsyhz5dWuZm94JSwQosm9BVhJw
REt39NYIkLW0jGIMkk8Cw4
TkpFfelz1cSbeFxtFBFVaBbo4YkEv5ltbuxwvbtWURkvsQa2VJXAqIs7z8=
id2@server2
eriand" "ssh-rsa
AAAAB3NzaC1yc2EAAAABIwAAAIEAwwOoUD4m+SazgzF2kRlq5Y2+lx2zQb
CxqBS
D1rmW92eLPOQIBv/sEy2d8UNeHpoKot9Px8q9ABriOyONc7vqNsSVnAMyi
cQB786uHoabSErVIYscapT
YvIGg+olbdhKySbSxOoXMehhgoQS0JZxHCbxsQJip7/7vJPCjRGU8Xq0=
id@server3" ];
  }
}
user alexander {
  full-name "Alexander the Great";
  uid 1002;
  class view;
  authentication {
    encrypted-password "{crypt}6ZSqJe75Tz5fN";
    ssh-authorized-keys [ "ssh-rsa
```

```

AAAAB3NzaC1yc2EAAAABIwAAAIEAvSqAWNMTQJS9eqG1eq
RANI3ML4hH+u7WX/HP0W82gDSPpjghnt1e5de3D8UkullEUBf1obgy
/7AKc98FqAlVp5onCiMg8ELD6
RYkgOgo7U6zERB25qy3sK1Rn9NzrB20qLzbvAcZW1NlePmf1R99d
/Rge7kB/5k6fq3NOG0fc= id@server" "ssh-rsa
AAAAB3NzaC1yc2EAAAABIwAAAIEAxIwe9HfZ78vdbfq1+AYOuCF79y
GPxgGuw
GZd9QVdT+dniwGh/4HwLITvKd8SYrhMJsyz5dWuZm94JSwQosm9
BVhJwREt39NYIkLW0jGIMkk8Cw4
TkPfflz1cSbeFxtFBFVaBbo4YkEv5ItbuxwvbTWURkvsQa2VJXA
qls7z8= id2@server2
eriand" "ssh-rsa AAAAB3NzaC1yc2EAAAABIwAAAIEAwwOoUD4m+Sazgz
F2kRlq5Y2+lx2zQbCqxBS
D1rmW92eLPOQIBv/sEy2d8UNeHpoKot9Px8q9ABriOyONc7vqNsS
VnAMyicQB786uHoabSErVIYscapT
YvIGg+olbdhKySbSxOoXMehhgoQSOJZxHCbxsQJip7/7vJPCjRGU
8Xq0= id@server3" ];
}
}
user darius {
  full-name "Darius King of Persia";
  uid 1003;
  class operator;
  authentication {
    ssh "1024 37 12341234@ecbatana.per";
  }
}
user remote {
  full-name "All remote users";
  uid 9999;
  class read-only;
}
}

```

Configuring a System Login Announcement with the SRC CLI

A system login announcement appears after the user logs in. By default, no login announcement is displayed.

To configure a system login announcement:

- At the [edit system login] hierarchy level, add the announcement statement.

```
[edit system login]
user@host# set announcement text
```

If the announcement text contains any spaces, enclose it in quotation marks.

