

Lab 14 Chef Security



The following tasks are available for user management in Chef server:

- Creating users
- Editing a user's profile
- Changing a password
- Recovering a password
- Regenerating a private key
- Viewing a user's profile

chef-server-ctl

The Chef server includes a command-line utility named `chef-server-ctl`. This command-line tool is used to start and stop individual services, reconfigure the Chef server, run `chef-pedant`, and then tail Chef server log files.

Use the `user-create`, `user-delete`, `user-edit`, `user-list` and `user-show` subcommands to manage users.

org-create

The `org-create` subcommand is used to create an organization. (The validation key for the organization is returned to `STDOUT` when creating an organization with this command.)

Syntax

This subcommand has the following syntax:

```
$ chef-server-ctl org-create ORG_NAME "ORG_FULL_NAME" (options)
```

where:

- The name must begin with a lower-case letter or digit, may only contain lower-case letters, digits, hyphens, and underscores, and must be between 1 and 255 characters. For example: `chef`.
- The full name must begin with a non-white space character and must be between 1 and 1023 characters. For example: `"Chef Software, Inc."`.

Options

This subcommand has the following options:

```
-a USER_NAME, --association_user USER_NAME
    Associate a user with an organization and add them to the admins and billing_admins
    security groups.
-f FILE_NAME, --filename FILE_NAME
    Write the ORGANIZATION-validator.pem to FILE_NAME instead of printing it to
    STDOUT.
```

org-delete

The `org-delete` subcommand is used to delete an organization.

Syntax

This subcommand has the following syntax:

```
$ chef-server-ctl org-delete ORG_NAME
```

org-list

The `org-list` subcommand is used to list all of the organizations currently present on the Chef server.

Syntax

This subcommand has the following syntax:

```
$ chef-server-ctl org-list (options)
```

Options

This subcommand has the following options:

```
-a, --all-orgs
    Show all organizations.
-w, --with-uri
    Show the corresponding URIs.
```

org-show

The `org-show` subcommand is used to show the details for an organization.

Syntax

This subcommand has the following syntax:

```
$ chef-server-ctl org-show ORG_NAME
```

org-user-add

Warning

Early RC candidates for the Chef server 12 release named this command `org-associate`. This is the same command, with the exception of the `--admin` flag, which is added to the command (along with the rename) for the upcoming final release of Chef server 12.

The `org-user-add` subcommand is used to add a user to an organization.

Syntax

This subcommand has the following syntax:

```
$ chef-server-ctl org-user-add ORG_NAME USER_NAME (options)
```

Options

This subcommand has the following options:

```
--admin
    Add the user to the admins group.
org-user-remove
```

Warning

Early RC candidates for the Chef server 12 release named this command `org-dissociate`. This is the same command, but renamed for the upcoming final release of Chef server 12.

The `org-user-remove` subcommand is used to remove a user from an organization.

Syntax

This subcommand has the following syntax:

```
$ chef-server-ctl org-user-remove ORG_NAME USER_NAME (options)
user-create
```

The `user-create` subcommand is used to create a user. (The validation key for the organization may be returned to `STDOUT` when creating a user with this command.)

Syntax

This subcommand has the following syntax:

```
$ chef-server-ctl user-create USER_NAME FIRST_NAME [MIDDLE_NAME] LAST_NAME
EMAIL 'PASSWORD' (options)
```

Options

This subcommand has the following options:

```
-f FILE_NAME, --filename FILE_NAME
    Write the USER.pem to a file instead of STDOUT.
user-delete
```

The `user-delete` subcommand is used to delete a user.

Syntax

This subcommand has the following syntax:

```
$ chef-server-ctl user-delete USER_NAME
user-edit
```

The `user-edit` subcommand is used to edit the details for a user. The data will be made available in the `$EDITOR` for editing.

Syntax

This subcommand has the following syntax:

```
$ chef-server-ctl user-edit USER_NAME
user-list
```

The `user-list` subcommand is used to view a list of users.

Syntax

This subcommand has the following syntax:

```
$ chef-server-ctl user-list (options)
```

Options

This subcommand has the following options:

```
-w, --with-uri
    Show the corresponding URIs.
user-show
```

The `user-show` subcommand is used to show the details for a user.

Syntax

This subcommand has the following syntax:

```
$ chef-server-ctl user-show USER_NAME (options)
```

Options

This subcommand has the following options:

`-l, --with-orgs`
Show all organizations.

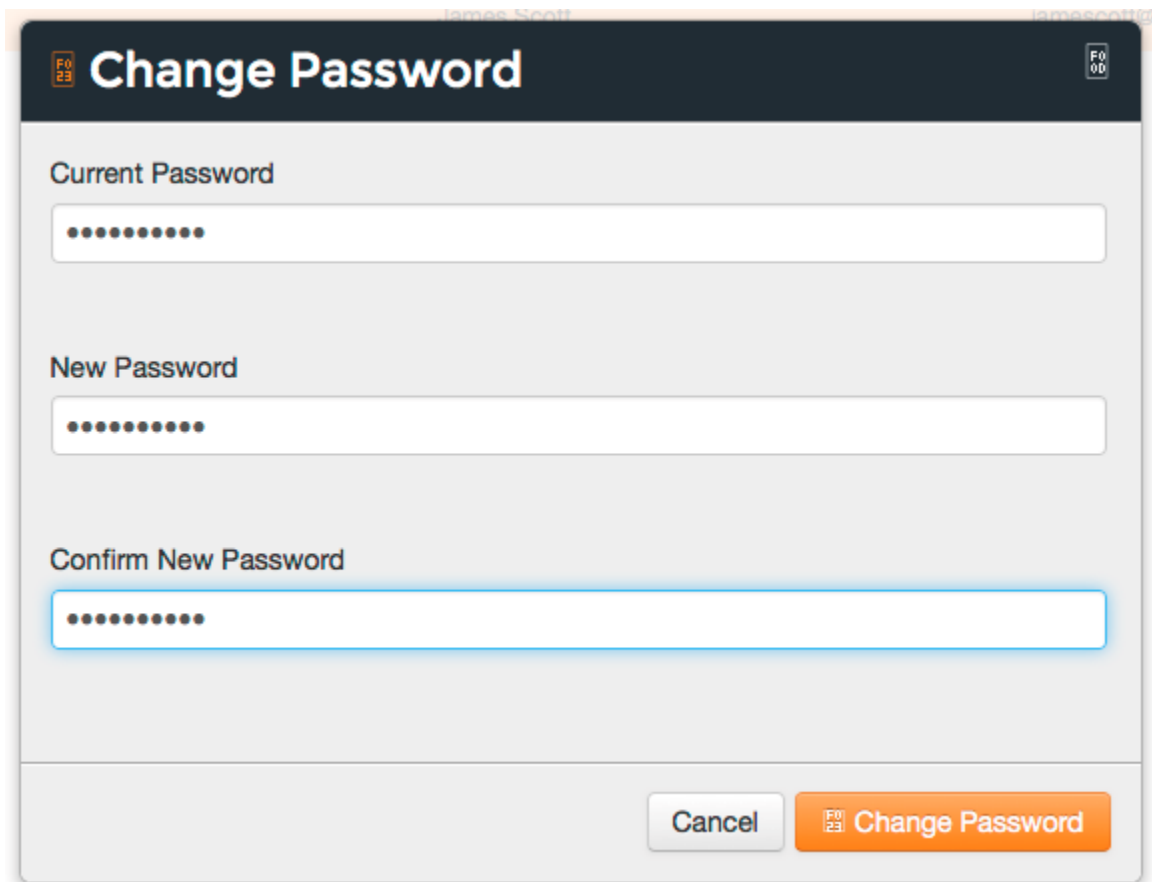
Chef Manage

This section is an alphabetical list of the various user-specific tasks that can be performed when using Chef management console.

Change Password

To change a user's password:

1. Open the Chef management console.
2. From the drop-down list next to your username, select **My Profile**.
3. Under **Users**, click **Change Password**.
4. In the **Change Password**, enter the old password and then the new password.



The screenshot shows a web browser window displaying the 'Change Password' dialog in the Chef management console. The dialog has a dark header with the title 'Change Password' and a small icon. Below the header, there are three input fields, each with a label and a password mask (dots). The first field is labeled 'Current Password', the second 'New Password', and the third 'Confirm New Password'. At the bottom right, there are two buttons: a 'Cancel' button and a 'Change Password' button with an orange background and a small icon.

5. When finished, click **Change Password**.

Invite a User

To invite a user to an organization:

1. Open the Chef management console.
2. Click **Administration**.
3. Click **Organizations**.
4. Click **Invite User**.
5. In the **Invite User** dialog box, enter the Chef server user name for the user to be invited, and then click the **Invite** button:

The image displays two screenshots of the 'Invite User to devsea' dialog box. The top screenshot shows the 'Chef Username' field with 'jcurrie' entered and the 'Invite' button highlighted. The bottom screenshot shows the same dialog box with a red error message: 'The user you entered has a pending invite for this org.' and the 'Invite' button disabled.

6. After the user accepts the invitation, they will be a member of this organization.

Cancel invite for User

Canceling a pending invite for a user can currently be completed using knife:

1. As a user that is a member of the `admins` group, replace `ORGNAME` with your own `ORGNAME` and run:
2.

```
knife raw 'association_requests' -s  
https://api.opscode.com/organizations/ORGNAME
```

You may see an empty list or you may see a populated list of invites. No invites looks like this

```
[  
]
```

A single invite looks like this

```
[  
  {  
    "id": "f6240e73d35b1e3ce3238ab8a5131ccb",  
    "username": "testuser"  
  }  
]
```

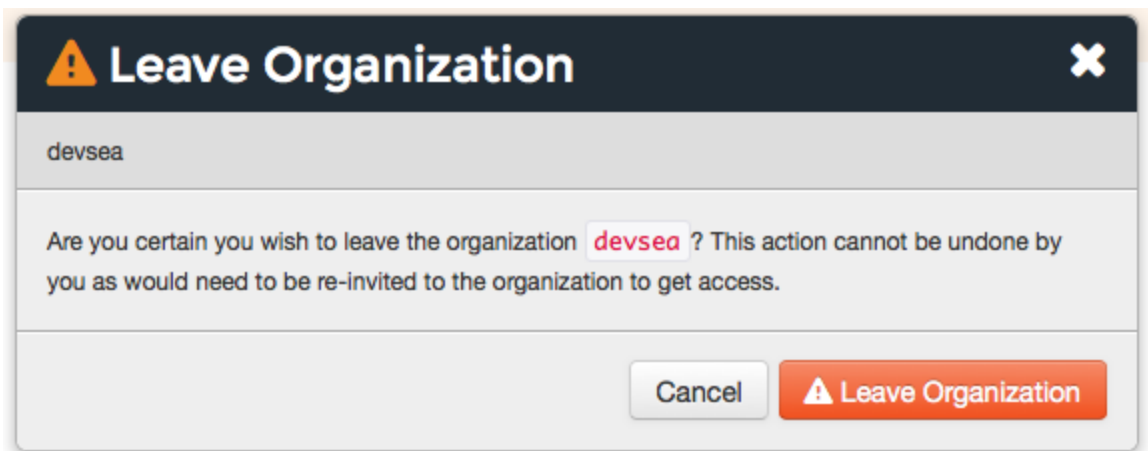
3. To cancel the above pending invite you would run
4.

```
knife raw -m DELETE  
'association_requests/f6240e73d35b1e3ce3238ab8a5131ccb' -s  
https://api.opscode.com/organizations/ORGNAME
```

Leave Org

To leave an organization:

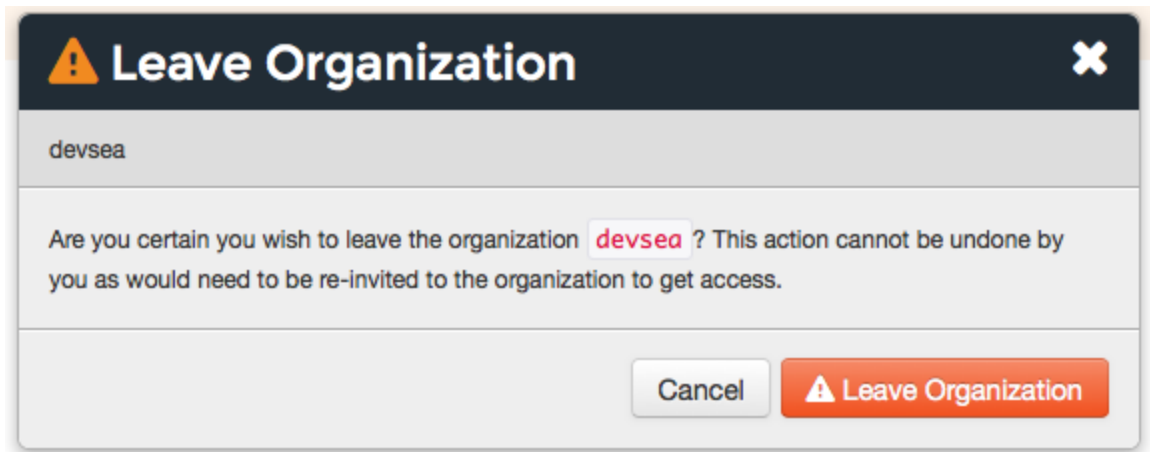
1. Open the Chef management console.
2. Click **Administration**.
3. Click **Organizations**.
4. Click **Leave Organization**.
5. In the **Leave Organization** dialog box, confirm that you want to leave the organization, and then click the **Leave Organization** button:



Remove User from Org

To remove a user from an organization:

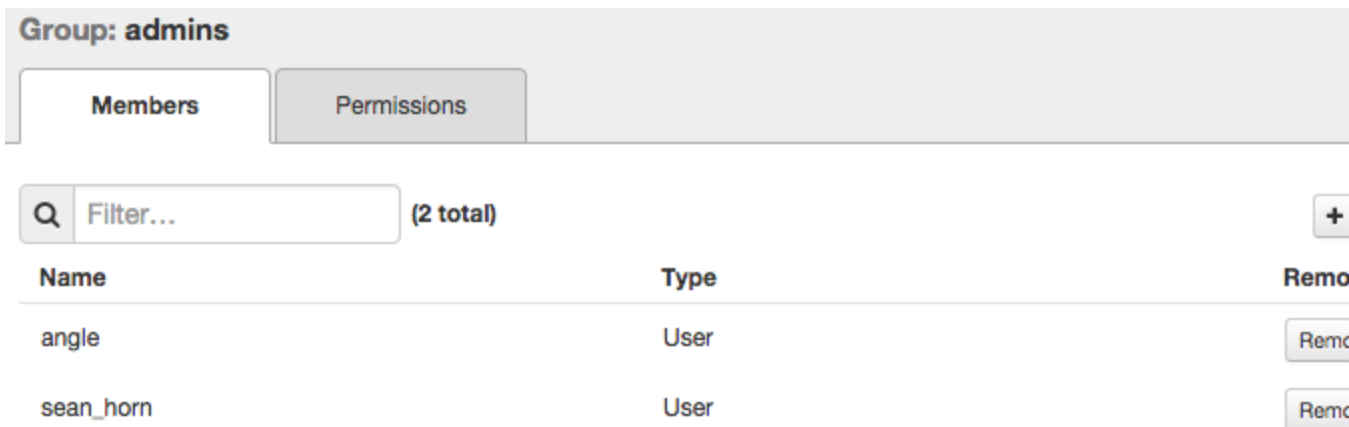
1. Open the Chef management console.
2. From the drop-down list next to your username, select **My Profile**.
3. Under **Users**, click **Leave Organization**.
4. In the **Leave Organization** dialog box, confirm that the key should be regenerated and click the **Leave Organization** button:



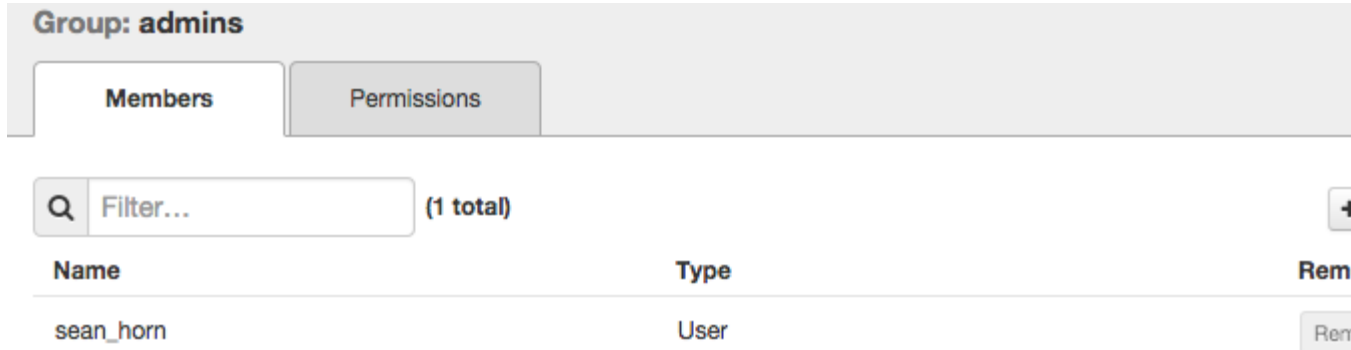
Remove Admin User from Org

Removing a member of the `admins` group from an organization requires the user to be removed from the `admins` group before they can be removed from the organization:

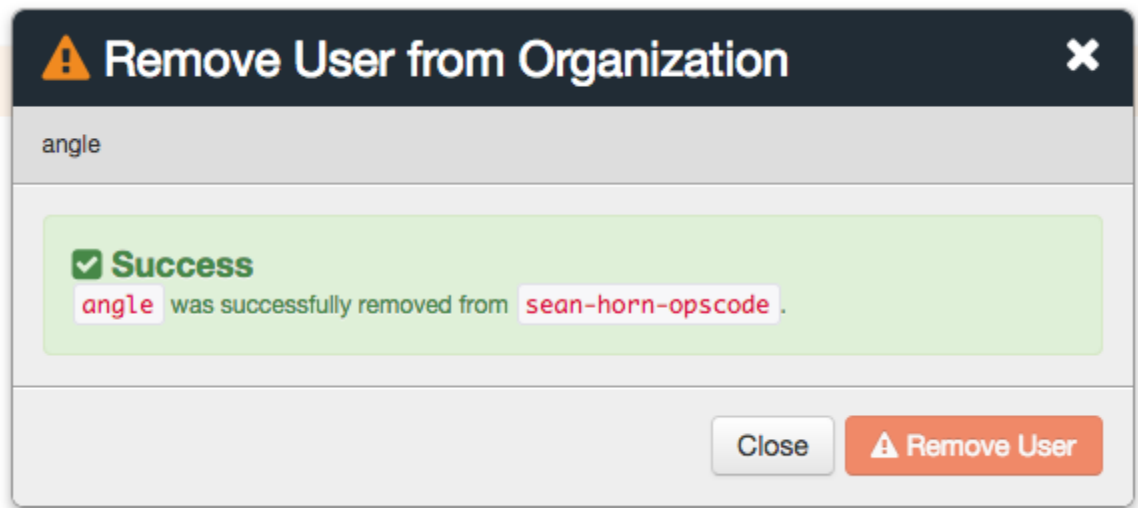
1. Open the Chef management console.
2. Click **Administration**.
3. Click **Groups**.
4. Select the **Groups** group.
5. Select a user to be removed from the **Groups** group:



6. Click **Remove**.



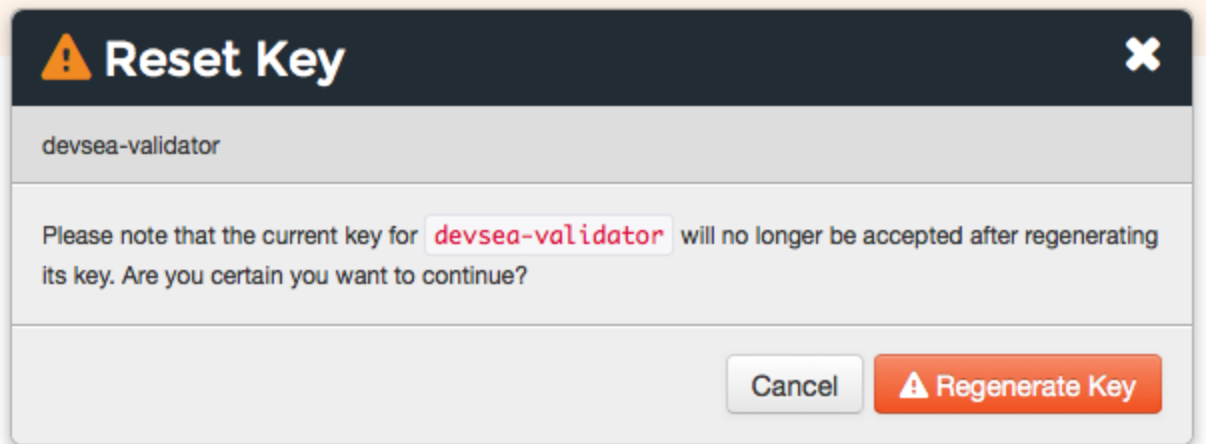
7. Click **Users**.
8. Select a user.
9. Click **Remove from Organization**.



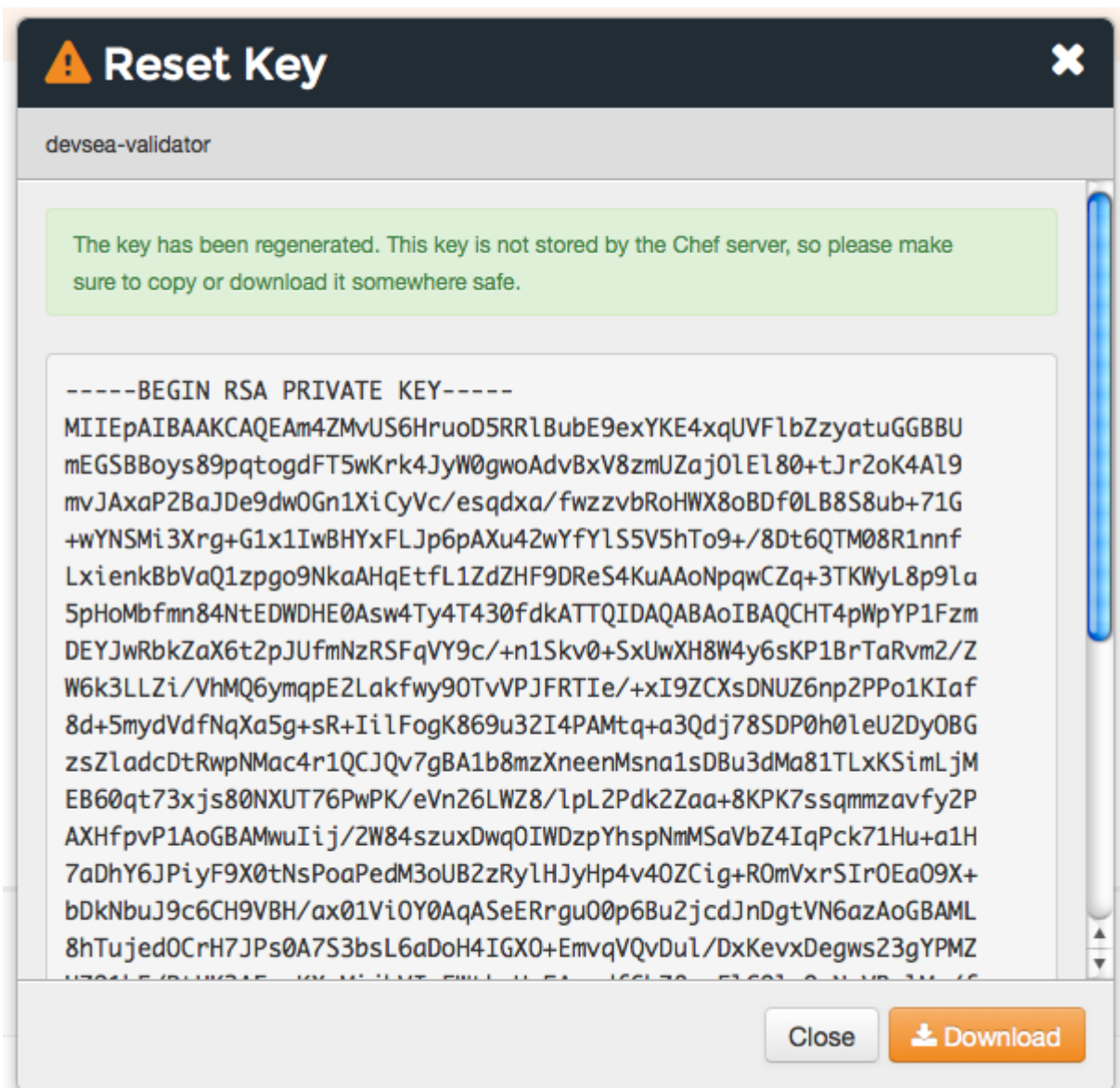
Reset User Key

To reset a user's validation key:

1. Open the Chef management console.
2. From the drop-down list next to your username, select **My Profile**.
3. Under **Users**, click **Reset Key**.
4. In the **Reset Key** dialog box, confirm that the key should be regenerated and click the **Regenerate Key** button:



5. In the **Reset Key** dialog box, copy the key directly from the dialog box or click the **Download** button to download the key to your local machine:



[View User Account Details](#)

To view user account settings:

1. Open the Chef management console.
2. From the drop-down list next to your username, select **My Profile**.