Download Packages From : <https://downloads.chef.io/chef-server/>

* wget <https://packages.chef.io/files/stable/chef-server/12.18.14/ubuntu/16.04/chef-server-core_12.18.14-1_amd64.deb>
* sudo dpkg -i chef-server-core\_\*.deb

Chef is an automation platform that “turns infrastructure into code,” allowing users to manage and deploy resources across multiple servers, or nodes. Chef allows users to create and download recipes (stored in cookbooks) to automate content and policies on these nodes.

Chef is comprised of a Chef server, one or more workstations, and a number of nodes that are managed by the chef-client installed on each node.

## Prerequisites

* One 4GB Linode to host the Chef server, running Ubuntu 14.04
* Two Linodes of any size to host a workstation and a node, each running Ubuntu 14.04
* Each Linode needs to be configured to have a valid FQDN
* Ensure that all servers are up-to-date:
* sudo apt-get update && sudo apt-get upgrade

## The Chef Server

The Chef server is the hub of interaction between all workstations and nodes using Chef. Changes made through workstations are uploaded to the Chef server, which is then accessed by the chef-client and used to configure each individual node.

### Install the Chef Server

1. [Download](https://downloads.chef.io/chef-server/#ubuntu) the latest Chef server core
2. wget https://web-dl.packagecloud.io/chef/stable/packages/ubuntu/trusty/chef-server-core\_12.0.8-1\_amd64.deb
3. Install the server:
4. sudo dpkg -i chef-server-core\_\*.deb
5. Remove the download file:
6. rm chef-server-core\_\*.deb
7. Run the chef-server-ctl command to start the Chef server services:
8. sudo chef-server-ctl reconfigure

### Create a User and Organization

1. In order to link workstations and nodes to the Chef server, an administrator and an organization need to be created with associated RSA private keys. From the home directory, create a .chef directory to store the keys:
2. mkdir .chef
3. Create an administrator. Change username to your desired username, firstname and lastname to your first and last name, email to your email, password to a secure password, and username.pem to your username followed by .pem:
4. sudo chef-server-ctl user-create username firstname lastname email password --filename ~/.chef/username.pem
5. Create an organization. The shortname value should be a basic identifier for your organization with no spaces, whereas the fullname can be the full, proper name of the organization. The association\_user value username refers to the username made in the step above:
6. sudo chef-server-ctl org-create shortname fullname --association\_user username --filename ~/.chef/shortname.pem

With the Chef server installed and the needed RSA keys generated, you can move on to configuring your workstation, where all major work will be performed for your Chef’s nodes.