

# Lab 4. Managing our web server.

## Before starting the lab.

Log into the webserver as root. Install the minion via the bootstrap command as we did in Lab 1. Omit the -M option as that will install the salt master, which we don't need here. As before, modify the minion file to tell Saltstack where the salt master is located, and, on the salt master, accept the new minion's key.

## Creating new states for the web server.

We're going to install apache as our web server. However, we don't want to install it on all of our minions, just the web servers.

Let's now update our top.sls file and add a new state ID, 'webserver', from there we'll install the apache pkg and monitor both the apache service and the apache configuration file.

First, create a new directory *apache*, change directory to it and create an *init.sls* file.

We will create three states.

1. Create a state called *apache* which will install the apache2 web server.
2. Create a state called *apache\_service* which will start the apache web server and reload it if the *apache2.conf* file has been changed. Note that this will require that the *apache2.conf* file exists.
3. Create a state called *apache\_config* which will manage the *apache2.conf* file. Note that in order for this state to run, the *apache2* package must already be installed.
4. Test the new configuration by running *salt state.apply apache*.