

# Assignment 2

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In this assignment, we setup a LAMP stack on two virtual machines using Vagrant and Ansible. All Vagrant and Ansible files are included in our Git repository:

<https://github.com/hanscol/CS5287Group/tree/master/Assignment2>.

## End of Assignment Survey: Evaluating the Deployment Approach

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Scale: 1 to 10; increasing in difficulty

### Ease of deployment: Scale [1-10]

8: Ansible was difficult and unreasonable to use for deploying a single webserver and a single database server.

**How much time and effort you required to deploy the application (in minutes), including internet searches you have to do to find the steps?**

- To deploy OpenStack servers: *4 hours*
- To install Apache: *15 minutes*
- To install and configure PHP: *15 minutes*
- To install and configure MySQL: *6 hours*
- Overall time to deploy application: *10 hours 30 minutes*

### Challenges you faced for this simple 3-tier application deployment

There is a bit of a learning curve with Ansible, and some things still aren't clear. We had to do a few hacks to get the deployment to work. One issue was having the playbook wait for the servers on Openstack to be up before attempting to access them. Another issue was getting the webserver to communicate with database server.