

# Training 1 - Vagrant

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## A/ First steps with Vagrant

1. Create a project folder 'vagrant\_first'
2. Create a Vagrantfile in your project (use a vagrant command)
3. Edit your vagrantfile to use a precise64 boxe.
4. Start your VM project and ssh into it
5. Install vim and apache2 (take notes about commands used)
6. Take a look at your apache default site configuration
7. Check your apache server is running (maybe try with a command for listing process)
8. Use the host machine browser to look at the apache default website.
9. **Call the teacher to check with you.**

## B/ Vagrant provisionning

You will need to provision your VM with some applications to use it. As you work in team, you need to be sure your vagrant can be recreate from scratch with one command. **vagrant up**

10. Create a new project folder called 'vagrant\_apache'
11. Use a precise64
12. At project root directory create a new folder architecture "sites/default/"
13. Add an index.html file in sites/default/
14. At project root directory create a provision script bootstrap.sh (edit Vagrantfile to use it)
15. bootstrap.sh must install apache2 and create links to redirect apache default site to /vagrant/sites/default/ (in guest vm)
16. Check everything is working from browser in host machine
17. Be sure you can destroy and recreate VMs with juste vagrant up.
18. **Call the teacher to check with you.**

## C/ Virtualhost

One vagrant, One apache, Two sites.

19. Create a new project folder 'vagrant\_virtualhost'
20. Use a provision script juste like before
21. This time your will not use apache default site configuration.  
You will have to create two configuration files. One for each virtualhost. Use licadm\_site1.conf and licadm\_site2.conf.  
Your sites will use domaine name licadm\_site1.com and licadm\_site2.com.  
Web site source code will be in **sites/licadm\_site1** and **sites/licadm\_site2** into the project folder (host).  
Use different content in your index.html pages for each site.
22. Check your two sites are accessible from your host browser
23. Check your project is **vagrant destroy** proof
24. **Call the teacher to check with you.**

## D/ PHP and Mysql

25. Create a new project folder 'vagrant\_amp'
26. Edit your provision script to install php5
27. Check php is enable and working by using an index.php page

### Bonus

28. Install a mysql database. Create tables you need and populate your DB when provisioning the VM.
29. For this... use your imagination
30. **Call the teacher to check with you.**

## E/ Package

Package your B and C projects folder in a tar.gz archive and mail it to [edu@delestra.com](mailto:edu@delestra.com) ^^