

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 box.
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.

B/ Vagrant provisioning

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**

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

C/ Virtualhost

One vagrant, One apache, Two sites.

18. Create a new project folder 'vagrant_virtualhost'
19. Use a provision script juste like before
20. 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.
21. Check your two sites are accessible from your host browser
22. Check your project is **vagrant destroy** proof
23. **Call the teacher to check with you.**

D/ PHP and Mysql

24. Create a new project folder 'vagrant_amp'
25. Edit your provision script to install php5
26. Check php is enable and working by using an index.php page
27. Install a mysql database. Create tables you need and populate your DB when provisioning the VM.
28. For this... use your imagination
29. **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 ^^