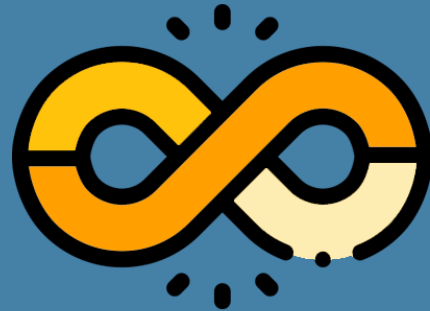


DevOps -
Infrastructure &
Configuration
Management



DevOps

Infrastructure & Configuration Management

April 2022

Configuration Management with Puppet
Home Work

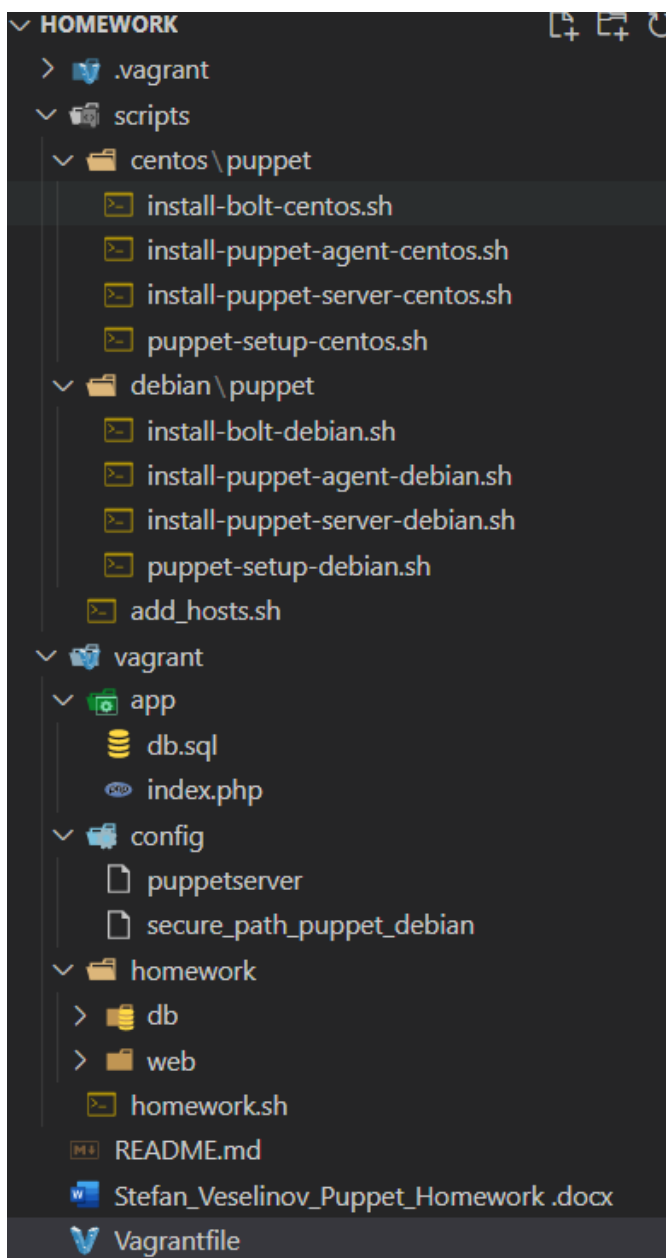
Stefan Veselinov

Assignment

You must execute either of the following set of tasks or both

2. With the help of Puppet and Vagrant create a two-host setup (Puppet could be installed on one of the machines or on both):

- One of the hosts should be based on Debian/Ubuntu and the other one – on CentOS
- Both hosts should see each other in terms of network communication. Their names should be web and db
- One of the hosts should play the role of WEB server with web solution of your choice and PHP installed and the other one – DB server with MySQL/MariaDB installed
- On the WEB host deploy the content of the web folder in M5-Homework-Challenge-Puppet (files).zip archive and on the other – the content of the db folder from the same archive
-



Solution Structure

- vagrant provisioning scripts for initial setup and puppet installation
- vagrant – shared folder, contains application code, puppet configuration, and puppet manifest

Solution Setup

- Enter solution directory (where Vagrant file is placed).
 - Execute – vagrant up

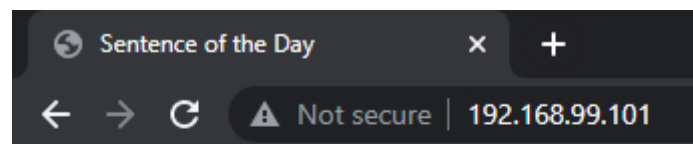
- Vagrant is going to create 3-vm's
 - o Server – puppet server vm
 - o Client1 – web server client
 - o Client2 – db server client
- Vagrant ssh client1
 - o Execute – sudo puppet agent --environment=web --test

```
Info: Applying configuration version '1651997315'
Notice: /Stage[main]/Main/Package[httpd]/ensure: created
Notice: /Stage[main]/Main/Package[php]/ensure: created
Notice: /Stage[main]/Main/Package[php-mysqldb]/ensure: created
Notice: /Stage[main]/Main/Service[httpd]/ensure: ensure changed 'stopped' to 'running'
Info: /Stage[main]/Main/Service[httpd]: Unscheduling refresh on Service[httpd]
Notice: /Stage[main]/Main/File[/var/www/html/index.php]/ensure: defined content as '{sha256}366603609c5b334d4d50c607f399daf0808b5280e722780c8c52cd80b3b99f01'
Notice: /Stage[main]/Firewall::Linux::Redhat/Service[firewalld]/ensure: ensure changed 'running' to 'stopped'
Notice: /Stage[main]/Firewall::Linux::Redhat/Package[iptables-services]/ensure: created
Info: /Stage[main]/Firewall::Linux::Redhat/Package[iptables-services]: Scheduling refresh of Exec[/usr/bin/systemctl daemon-reload]
Notice: /Stage[main]/Firewall::Linux::Redhat/Exec[/usr/bin/systemctl daemon-reload]: Triggered 'refresh' from 1 event
Notice: /Stage[main]/Firewall::Linux::Redhat/Service[iptables]/ensure: ensure changed 'stopped' to 'running'
Info: /Stage[main]/Firewall::Linux::Redhat/Service[iptables]: Unscheduling refresh on Service[iptables]
Notice: /Stage[main]/Firewall::Linux::Redhat/Service[ip6tables]/ensure: ensure changed 'stopped' to 'running'
Info: /Stage[main]/Firewall::Linux::Redhat/Service[ip6tables]: Unscheduling refresh on Service[ip6tables]
Notice: /Stage[main]/Main/Firewall[000 accept 80/tcp]/ensure: created
Notice: /Stage[main]/Firewall::Linux::Redhat/File[/etc/sysconfig/iptables]/seltype: seltype changed 'system_conf_t' to 'etc_t'
Notice: /Stage[main]/Firewall::Linux::Redhat/File[/etc/sysconfig/ip6tables]/seluser: seluser changed 'system_u' to 'unconfined_u'
Notice: /Stage[main]/Firewall::Linux::Redhat/File[/etc/sysconfig/ip6tables]/seltype: seltype changed 'system_conf_t' to 'etc_t'
Notice: /Stage[main]/Main/Selboolean[Apache SELinux]/value: value changed 'off' to 'on'
Notice: Applied catalog in 85.83 seconds
```

- Vagrant ssh client2
 - o Execute - sudo puppet agent --environment=db --test

```
Info: Applying configuration version '1651997476'
Notice: /Stage[main]/Mysql::Server::Config/File[/etc/mysql]/ensure: created
Notice: /Stage[main]/Mysql::Server::Config/File[/etc/mysql/conf.d]/ensure: created
Notice: /Stage[main]/Mysql::Server::Config/Exec[datadir-managed_dir-mkdir]/returns: executed successfully
Info: /Stage[main]/Mysql::Server::Config/Exec[datadir-managed_dir-mkdir]: Scheduling refresh of Exec[datadir-managed_dir-chmod]
Notice: /Stage[main]/Mysql::Server::Config/Exec[datadir-managed_dir-chmod]: Triggered 'refresh' from 1 event
Notice: /Stage[main]/Mysql::Server::Config/File[mysql-config-file]/ensure: defined content as '{sha256}8f5d7ace0b0ac5cd810912400cbaa4b4aa4b813f50309abf8f9d513cf039e6f3'
Info: Class[Mysql::Server::Config]: Scheduling refresh of Class[Mysql::Server::Service]
Notice: /Stage[main]/Mysql::Server::Install/Package[mysql-server]/ensure: created
Notice: /Stage[main]/Mysql::Server::Managed_dirs/File[datadir-managed_dir]/mode: mode changed '0777' to '0700'
Info: Class[Mysql::Server::Service]: Scheduling refresh of Service[mysqld]
Info: Class[Mysql::Server::Service]: Scheduling refresh of Exec[wait_for_mysql_socket_to_open]
Notice: /Stage[main]/Mysql::Server::Service/Service[mysqld]: Triggered 'refresh' from 1 event
Notice: /Stage[main]/Mysql::Server::Service/Exec[wait_for_mysql_socket_to_open]: Triggered 'refresh' from 1 event
Notice: /Stage[main]/Mysql::Server::Root_password/Mysql_user[root@localhost]/password_hash: changed password
Notice: /Stage[main]/Mysql::Server::Root_password/File[/root/.my.cnf]/ensure: defined content as '{sha256}431b7d4ad8e9edc313192fd95c4f7fb4e8e9a4d40e75a847f0853ea36cfd30f'
Notice: /Stage[main]/Firewall::Linux::Debian/Package[iptables-persistent]/ensure: created
Notice: /Stage[main]/Main/Firewall[000 accept 3306/tcp]/ensure: created
Notice: /Stage[main]/Mysql::Client::Install/Package[mysql-client]/ensure: created
Notice: /Stage[main]/Main/Mysql::Db[sentences]/Mysql_database[sentences]/ensure: created
Info: /Stage[main]/Main/Mysql::Db[sentences]/Mysql_database[sentences]: Scheduling refresh of Exec[sentences-import]
Notice: /Stage[main]/Main/Mysql::Db[sentences]/Mysql_user[root@%]/ensure: created
Notice: /Stage[main]/Main/Mysql::Db[sentences]/Mysql_grant[root@%/sentences.%]/ensure: created
Notice: /Stage[main]/Main/Mysql::Db[sentences]/Exec[sentences-import]/returns: executed successfully
Notice: /Stage[main]/Main/Mysql::Db[sentences]/Exec[sentences-import]: Triggered 'refresh' from 1 event
Notice: Applied catalog in 38.84 seconds
vagrant@puppet-client-2:~$
```

- visit <http://192.168.99.101/>



Sentence of the Day

Great Sentence #3