

VPROFILE PROJECT SETUP MANUAL

Prerequisites

1. Oracle VM VirtualBox
2. Vagrant
3. Vagrant plugins:

Install hostmanager plugin:

```
$ vagrant plugin install vagrant-hostmanager
```

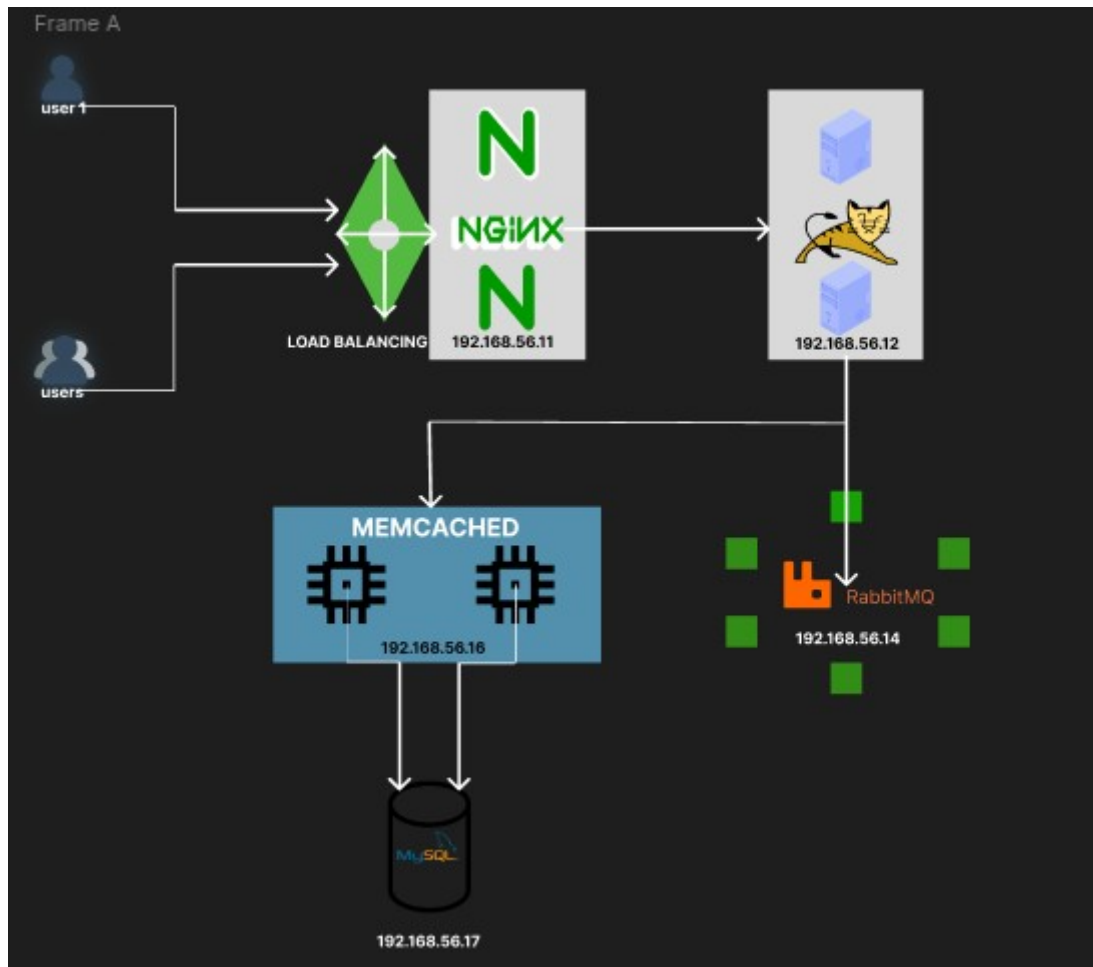
4. Git Bash or equivalent terminal

VM Setup

1. Clone source code repository from [here](#)
2. Navigate to the repository.
3. Enter provisioning directory named Vagrant/Manual_Provisioning
4. Start Vms:

```
$ vagrant up
```

VProfile Architecture Diagram



Service Provisioning Order

1. MySQL (Database Service)
2. Memcache (DB Caching Service)
3. RabbitMQ (Broker/Queue Service)
4. Tomcat (Application Service)
5. Nginx (Web Service)

MySQL Setup (db01 VM)

1. Access VM and run as root user:

```
$ vagrant ssh db01
```

2. Verify hosts file:

```
$ cat /etc/hosts
```

3. Configurations:

Update and Install dependencies:

```
chris@HP:~$ yum update -y\  
yum install epel-release -y\  
yum install git mariadb-server -y
```

4. Start and Enable MariaDB:

```
chris@HP:~$ systemctl start mariadb  
systemctl enable mariadb
```

5. Run MySQL secure Installation Script

```
$ mysql_secure_installation
```

- Recommended password: admin123
- Remove anonymous users
- Keep remote root login disabled
- Remove test database

6. Database Initialization:

```
mysql -u root -padmin123  
CREATE DATABASE accounts;  
GRANT ALL PRIVILEGES ON accounts.* TO 'admin'@'%' IDENTIFIED BY 'admin123';  
FLUSH PRIVILEGES;  
EXIT;
```

7. Import Data:

```
git clone -b main https://github.com/chris69-bit/DevOps-vprofile-data.git  
cd vprofile-project  
mysql -u root -padmin123 accounts < src/main/resources/db_backup.sql
```

Note: Service dependencies must be provisioned in specified order

Default credentials:

MySQL root: admin123

DB admin: admin/admin123

This document covers the initial MySQL setup. Subsequent services (Memcache, RabbitMQ, Tomcat, Nginx) would follow similar provisioning processes in the specified order.

The configuration to this servers are also available in the repo