

### 1. 安装VMBox

### 2. 安装vagrant

### 3. cmd命令行输入

```
vagrant init centos/7
```

生成 Vagrantfile文件

### 4. 添加box

```
vagrant box add --name centos/7 H:\开发软件\虚拟机搭建\CentOS-7-x86_64-Vagrant-1905_01.VirtualBox.box
```

### 5. 打开VMBox然后命令行输入 启动虚拟机

```
vagrant up
```

### 6. 启动后登入虚拟机

```
vagrant ssh
```

### 7. 网络端口设置

cmd命令输入 ipconfig 查看VMBox的ip地址 192.168.56.1  
修改Vagrantfile的 config.vm.network 的 private\_network 为 192.168.56.10  
重启虚拟机 vagrant reload  
主机与虚拟机进行ping测试 虚拟机 ip addr查看ip, 主机 ipconfig查看ip  
虚拟机ping 192.168.2.106  
主机ping 192.168.56.10

### 8. 虚拟机Docker安装

```
sudo yum remove docker \
    docker-client \
    docker-client-latest \
    docker-common \
    docker-latest \
    docker-latest-logrotate \
    docker-logrotate \
    docker-engine
```

```
sudo yum install -y yum-utils \
    device-mapper-persistent-data \
    lvm2
```

```
sudo yum-config-manager \
--add-repo \
https://download.docker.com/linux/centos/docker-ce.repo
```

```
sudo yum install docker-ce docker-ce-cli containerd.io
```

## 9. 启动docker

```
sudo systemctl start docker
```

- 查看docker

```
docker -v
```

## 10. 开机自启动

```
sudo systemctl enable docker
```

## 11. 配置镜像加速 - 阿里云 <https://cr.console.aliyun.com/cn-hangzhou/instances/mirrors> 选择 centos

```
sudo mkdir -p /etc/docker
sudo tee /etc/docker/daemon.json <<- 'EOF'
{
  "registry-mirrors": ["https://ek4svdsm.mirror.aliyuncs.com"]
}
EOF
sudo systemctl daemon-reload
sudo systemctl restart docker
```

## 12. 安装mysql [可以切换用户 su root 密码是vagrant, 后续就不用带 sudo了]

- 拉取镜像

```
sudo docker pull mysql:5.7
```

- 查看镜像

```
sudo docker images
```

- 启动容器

```
sudo docker run -p 3306:3306 --name mysql \
-v /mydata/mysql/log:/var/log/mysql \
-v /mydata/mysql/data:/var/lib/mysql \
-v /mydata/mysql/conf:/etc/mysql \
-e MYSQL_ROOT_PASSWORD=root \
-d mysql:5.7
```

- 查看容器

```
docker ps
```

- navicat连接测试

```
ip:192.168.56.10  
user:root  
password:root
```

- mysql配置文件修改: /mydata/mysql/conf下创建my.cnf输入以下内容

```
[client]  
default-character-set=utf8  
  
[mysql]  
default-character-set=utf8  
  
[mysqld]  
init_connect='SET collation_connection = utf8_unicode_ci'  
init_connect='SET NAMES utf8'  
character-set-server=utf8  
collation-server=utf8_unicode_ci  
skip-character-set-client-handshake  
skip-name-resolve
```

- 重启mysql容器

```
docker restart mysql
```

- 进入容器查看配置文件

```
docker exec -it mysql /bin/bash  
cat /etc/mysql/my.cnf
```

- 退出容器

```
exit
```

### 13. 安装 redis

- redis镜像拉取

```
docker pull redis
```

- 创建实例并启动

```
mkdir -p /mydata/redis/conf
touch /mydata/redis/conf/redis.conf

docker run -p 6379:6379 --name redis \
-v /mydata/redis/data:/data \
-v /mydata/redis/conf/redis.conf:/etc/redis/redis.conf \
-d redis redis-server /etc/redis/redis.conf
```

- redis的client操作

```
docker exec -it redis redis-cli
```

- 修改redis.conf开启AOP存盘

```
appendonly yes
```

- 重启redis

```
docker restart redis
```

#### 14. 虚拟机启动自动启动容器

```
sudo docker update mysql --restart=always
sudo docker update redis --restart=always
```

#### 15. maven配置

- 阿里云镜像

```
<mirror>
  <id>nexus-aliyun</id>
  <name>Nexus aliyun</name>
  <url>http://maven.aliyun.com/nexus/content/groups/public/</url>
  <mirrorOf>central</mirrorOf>
</mirror>
```

- 编译配置

```
<profile>
  <id>jdk-1.8</id>

  <activation>
    <activeByDefault>true</activeByDefault>
  </activation>

  <properties>
    <maven.compiler.source>1.8</maven.compiler.source>
    <maven.compiler.target>1.8</maven.compiler.target>

    <maven.compiler.compilerVersion>1.8</maven.compiler.compilerVersion>
  </properties>
</profile>
```

16. **IDEA 配置，选中我们的maven及配置文件**

17. **安装lombok, mybatisx**

18. **下载 vscode前端开发工具及插件**

- auto close
- auto rename
- chinese
- eslint
- html css support
- html snippets
- javascript(ES6)
- live server
- open in browser
- vetur