

## Hortonwork Distro Install

### ❖ Important elements to check :

- Check ICMP on AWS account
- Check SSH
- MySQL
- Python
- Repo

\*\*\* This process can be applied only on fresh machines \*\*\*

#### 1. Test ssh connection :

```
ssh -i <ssh_key> user@ip_address  
ssh -i ~/.ssh/id_rsa ubuntu@54.246.253.237
```

#### 2. Getting each machine's hostname/ip :

```
hostname -f  
ifconfig
```

#### 3. Test connection to another host from server :

```
ubuntu@server-cluster:$ ping <private_ip_address_node>
```

#### 4. SSH Setup :

##### 4.1. Upload ssh key from local machine to each host :

```
scp -i <ssh_key> source_file login@remote_host:/path_to_remote_file  
scp -i <ssh_key> NC_AWS_KEY.pem ubuntu@remote_host:~/.ssh/NC_AWS_KEY.pem  
mv NC_AWS_KEY.pem ~/.ssh/id_rsa  
sudo chmod 600 ~/.ssh/id_rsa
```

##### 4.2. Check ssh connection :

```
ubuntu@ip-xxx-xx-xx-xxx> ssh public_ip_address  
ubuntu@ip-xxx-xx-xx-xxx> ssh private_ip_address
```

#### 5. Ambari server install / Config :

On server only :

```
sudo wget -O /etc/apt/sources.list.d/ambari.list  
http://public-repo-1.hortonworks.com/ambari/ubuntu16/2.x/updates/2.6.0.0/ambari.list  
sudo apt-key adv --recv-keys --keyserver keyserver.ubuntu.com B9733A7A07513CAD  
sudo apt-get update  
sudo apt-get install ambari-server  
sudo ambari-server setup  
- User account : no  
- GPL : no  
- JDK : 1  
- Database : no
```

```
sudo ambari-server start
```

#### 6. NTP Install / Config :

On all hosts: `sudo apt-get install ntp`

#### 7. HugePages Install / Config :

On all hosts :

```
sudo apt-get install hugepages
sudo hugeadm --thp-never
```

#### 8. IPTABLES (FIREWALL) Config:

On all hosts :

```
sudo ufw disable && \
sudo iptables -X && \
sudo iptables -t nat -F && \
sudo iptables -t nat -X && \
sudo iptables -t mangle -F && \
sudo iptables -t mangle -X && \
sudo iptables -P INPUT ACCEPT && \
sudo iptables -P FORWARD ACCEPT && \
sudo iptables -P OUTPUT ACCEPT
```

#### 9. MYSQL Install / Config:

On server only :

```
sudo apt-get install mysql-server
sudo vim /etc/mysql/mysql.conf.d/mysqld.cnf
Replace bind-address="127.0.0.1" by bind-address="0.0.0.0"
sudo service mysql restart
```

#### 10. Preparing Hosts :

```
sudo wget -O /etc/apt/sources.list.d/ambari.list
http://public-repo-1.hortonworks.com/ambari/ubuntu16/2.x/updates/2.6.0.0/ambari.list && \
sudo apt-key adv --recv-keys --keyserver keyserver.ubuntu.com B9733A7A07513CAD && \
sudo apt-get update && \
sudo apt-get install python
```

#### 11. Launch Ambari Wizard on browser :

<http://PUBLIC.IP.ADDRESS.SERVEUR:8080>

- Launch install wizard
- Set cluster name
- Select HDP version
- Select OS repository

- Set private FQDN hosts
- Import RSA key
- Set host's username [ubuntu]
- Laisser en Auto

Once registration is done successfully (green on all hosts), Configure roles and passwords.

## 12. Deploying cluster :

Wait end of installation

**Error on HIVE SERVER 2 (MYSQL)**

**Fix :**

**On each host :**

Check if `/etc/mysql/mysql.conf.d/mysqld.cnf` exist, then edit it :

`sudo vim /etc/mysql/mysql.conf.d/mysqld.cnf`

Replace `bind-address="127.0.0.1"` by `bind-address="0.0.0.0"`