## Cloudera Manager 7 Installation-Steps

- 1. Register an account: https://sso.cloudera.com/onboarding.html?stepId=pocForm
- 2. Get installer for CDP Installer (60 Days Trial) https://www.cloudera.com/downloads/cdp-private-cloud-trial/cdp-private-cloud-base-trial.html
- 3. Check for supportable Linux OS(Ubuntu 20.04 or Centos) .Supporting OS: <a href="https://supportmatrix.cloudera.com/">https://supportmatrix.cloudera.com/</a>, and get Ubuntu 20.04, <a href="https://releases.ubuntu.com/20.04/ubuntu-20.04.4-desktop-amd64.iso">https://releases.ubuntu.com/20.04/ubuntu-20.04.4-desktop-amd64.iso</a>
- 4. Request Trial at <a href="https://www.cloudera.com/downloads/cdp-private-cloud-trial/cdp-private-cloud-base-trial.html">https://www.cloudera.com/downloads/cdp-private-cloud-trial/cdp-private-cloud-base-trial.html</a>
- 5. Install Cloudera Manager with steps below( they are mentioned in the URL above too):
  - a. Download Cloudera Manager Installer and install:
  - b. \$ wget https://archive.cloudera.com/cm7/7.4.4/cloudera-manager-installer.bin
  - c. \$ chmod u+x cloudera-manager-installer.bin
  - d. \$ sudo ./cloudera-manager-installer.bin
- 6. Once installer completes, create SSH user( cdproot) with Root/Admin Privileges Option-1:

sudo adduser cdproot

sudo usermod -aG sudo <u>cd rootedproot</u>

Option-2:

sudo adduser cdproot sudo

Checks: groups cdproot

- 7. Install and start OpenSSH-Server to run at 22
  - # sudo apt-get install openssh-server
  - # sudo systemetl enable ssh
  - # sudo systemctl start ssh
- 8. SSH Login and Root Permission:
  - a. SSH Login:

sudo nano /etc/ssh/sshd config

or

sudo nano /etc/ssh/sshd\_config

Add This: PermitRootLogin yes

b. Root User:

sudo gedit /etc/sudoer and allow NOPASSWRD logins

9. Start SCM Server sudo service cloudera-scm-server start

Other options:

sudo service cloudera-scm-server start

sudo service cloudera-scm-server stop

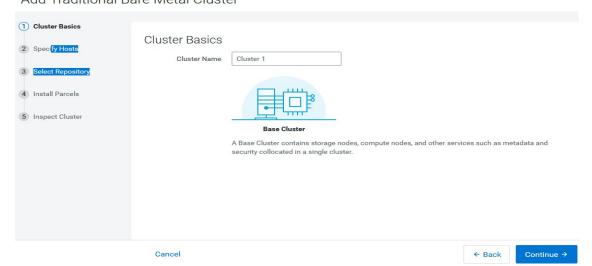
sudo service cloudera-scm-server restart

- 10. Access Cloudera Manager at https://<ip>:7180, username/password admin/admin/
- 11. Follow on-screen details to install and configure all parcels/packages (Works in most scenarios)...

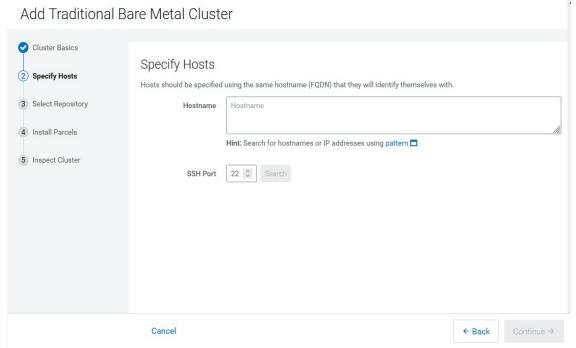
### Cloudera Data Platform installation using <u>Cloudera Clouder</u> Manager 7:

Now, follow the steps below to complete installation of CDP:

- 1. Login to Cloudera Manager 7 with given URL <a href="http://54.255.20.131:7180">http://54.255.20.131:7180</a> and credentials
- 2. Click on continue and define Cluster, Cluster-BS Add Traditional Bare Metal Cluster



3. Click on continue and search the server system by Hostname



4. Before clicking Continue create another user with root permission/privileges

Option-1:

sudo adduser cdproot

sudo usermod -aG sudo cd root

Option-2:

sudo adduser cdproot sudo Checks: groups cdproot

5. Permit RootLogin

sudo nano /etc/ssh/sshd\_config
Add This : PermitRootLogin yes

#### sudo gedit /etc/sudoer and allow NOPASSWRD logins

- 6. Click next and select "System JDK" and continue, need start installing all packages.
- 7. Refer "InstalltionDetails- SCU.pdf" from Santa Clara University.

#### All Developer Addon-Tools Installations:

- 1. Clouder Data Science Workbench(CDSW) <a href="https://docs.cloudera.com/cdsw/1.9.2/installation/topics/cdsw-installing-cloudera-data-science-workbench.html">https://docs.cloudera.com/cdsw/1.9.2/installation/topics/cdsw-installing-cloudera-data-science-workbench.html</a>
- 2. NiFi Installation:

Access and Environment for CDP Data Developer Exam Candidates:

#### **CDP Access:**

<Post Installation>

### **Systems Requirements for the Participants:**

- 1. **CDP** Access or own installation ( if anyone can manage own)
- [2.] Pycharm Edu and Python Python Coding Codding for PySpark
- 2.[3.] Intellij IDE Edu- Java and Scala Coding for Spark Coding with Scala
- 3.[4.] Firefox and Chrome Browsers
  - a. CDP Data Developer: https://www.cloudera.com/about/training/certification/cdp-datadev-exam-cdp-3001.html
  - b. FAQ: https://www.cloudera.com/about/training/certification/cdp-faqs.html

# 4.[5.] Recommended Resources Access:

a. Supporting Cloudera Courses: <a href="https://education.cloudera.com/store?utf8="https://education.com/store?utf8="https://ed

## 5.[6.] Remote Access to CDP for PySpark Shell:

- a. Create Linux Users on CDP Server, example CDP3001-001
- b. Getting remote session on Smart Putty, https://sysprogs.com/SmarTTY/download/
- c. Starting Spark shell, \$ spark-shell or spark2-shell
- d. Checks with Sample Code:Scala>val log = sc.textFile("/tmp/logs")scala>print(log)

#### 6.[7.] Another

Note: Practical Labs on Spark(Pythona) on Shell, Jupyter Notebook and PyCharm, Scala on Shell, Intellij and Jupyter Notebook and all necessary labs during the sessions, started making them!

## Troubleshooting:

### 1. TS-01: Cloudera Manager Hangs When Installing Parcels

Suggested changes for resolution:

# a. Map Hostname with IP in Hosts file:

\$sudo gedit /etc/hosts or \$sudo nano /etc/hosts or \$sudo vi /etc/hosts

Map IP with hostname 127.0.0.1 < Hostname>

References: <a href="https://community.cloudera.com/t5/Support-Questions/Cloudera-Manager-Hangs-When-Installing-Parcels/m-p/53770#M46950">https://community.cloudera.com/t5/Support-Questions/Cloudera-Manager-Hangs-When-Installing-Parcels/m-p/53770#M46950</a>

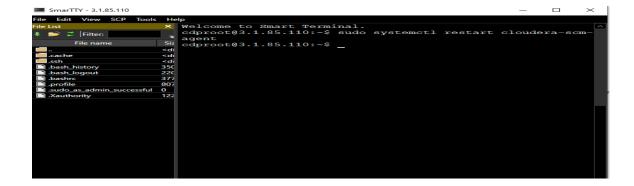
### b. Restart CLOUDERA SOFTWARE AGENT:

sudo ssh <hostname>
systemctl restart cloudera-scm-agent

#### Install Parcels

The selected parcels are being downloaded and installed on all the hosts in the cluster.

There was an error when communicating with the server. See the server log file, typically /var/log/cloudera-scm-server



c. Check FREE STORAGE NEED FOR UNPACKING PARCELS:

# \$ df <options> [devices], df /dev/sda

E: You don't ha	ro opough	troo coac	1 n /mar/	an abo	/ant/arch
ives/.	ve enough .	riee space	s III /Vai/C	Lacrie,	/ apt/ alti
cdproot@3.1.85.	110:~\$ df				
Filesystem	1K-blocks	Used	Available	Use%	Mounted on
/dev/root	30308240	18740312	11551544	62%	<u>/</u>
devtmpfs	7993588	0	7993588	0%	/dev
tmpfs	8000216	80	8000136	1%	/dev/shm
tmpfs	1600044	1736	1598308	1%	/run
tmpfs	5120	0	5120	0%	/run/lock
tmpfs	8000216	0	8000216	0%	/sys/fs/cgroup
/dev/loop0	25728	25728	0	100%	/snap/amazon-ssm-agent/5656
/dev/loop1	63488	63488	0	100%	/snap/core20/1518
/dev/nvme0n1p15	106858	5321	101537	5%	/boot/efi
/dev/loop2	56960	56960	0	100%	/snap/core18/2409
/dev/loop3	48128	48128	0	100%	/snap/snapd/16010
/dev/loop4	69504	69504	0	100%	/snap/1xd/22753
cm_processes	8000216	52	8000164	1%	/run/cloudera-scm-agent/proc
/dev/loop5	48128	48128	0	100%	/snap/snapd/16292
/dev/loop6	56960	56960	0	100%	/snap/core18/2538

# Check installing small package: sudo apt-get install gedit

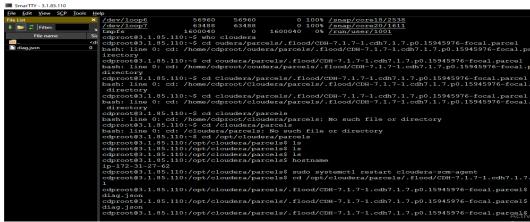


# d. Check Whether download Package available or not:

**Location:** oudera/parcels/.flood/CDH-7.1.7-1.cdh7.1.7.p0.15945976-focal.parcel/CDH-7.1.7-1.cdh7.1.7.p0.15945976-focal.parcel does not exist

The selected parcels are being downloaded and installed on all the hosts in the cluster.										
✓ Cloudera Runtime 7.1.7	Downloaded: 100%	Distributed:	Unpacked: (	D/1	Activated: 0/1					
There are 1 error(s).  Src file /opt/cloudera/parcels/.flood/CDH-7.1.7-1.cdh7.1.7.p0.15945976-focal.parcel /CDH-7.1.7-1.cdh7.1.7.p0.15945976-focal.parcel does not exist  Another possible way to resolve these errors is to restart the agent:  \$ ssh <hostname></hostname>										
\$ systemctl restart cloudera-scm-agent										
All (1)    Running (1)    Failed (1)    Completed (0)										
Hostname	Th	roughput	Status	Errors						
ip-172-31-27-62.ap-southeast- 1.compute.internal		.8 GiB/s	UNPACKING		opt/cloudera/parcels DH-7.1.7-1					

# /opt/cloudera/parcels/.flood/CDH-7.1.7-1.cdh7.1.7.p0.15945976-focal.parcel



2. TS-02: Trial License Issues

Write with environment details for Trial License at <a href="https://www.cloudera.com/contact-trial">https://www.cloudera.com/contact-trial</a>

