V 1.2

August 11, 2017

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zaloni

SeVER PRE-REQUISTE VALIDATION

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# REVISION

|  |  |  |
| --- | --- | --- |
| Date | Version | Comment |
| Aug-07-2017 | V1.0 | Initial Document |
| Aug-08-2017 | V1.1 | OS support for Redhat/Cent-OS 6.9 included . |
| Aug-10-2017 | V1.2 | Removed “Hosts Unable to Connect” bullet point .  Able to login to 10.100.74.38 & 10.100.74.42 as “zaloni1” user. |
|  |  | Data Disk mounted with “noatime” option . Removed the bullet point “Datanode Mount Option” |
|  |  | FQDN not working |

# Checklist :

Below was the checklist that was shared in the infrastructure document shared earlier . I have done a check on all the hosts ( few hosts are not accessible ) .

1. CentOS 6.7 is installed ( Red-hat 6.9/Cent-OS 6.9 is a supported version per <https://www.cloudera.com/documentation/enterprise/release-notes/topics/rn_consolidated_pcm.html#os58>
2. Disk formatted and partitioned per recommendations per Apendix (Section: FileSystem & Partition Recommendation in infra-document )
   1. For Slave/Data Nodes , /grid/\* partitions are mounted using “noatime” mount
3. After OS installation is complete :
   1. Set Swappiness to 1
   2. Iptables turned off
   3. SE-Linux turned off
   4. Hostnames & FQDN need to be setup , IP addresses, Routing tables setup
   5. Base and EPEL repos are available ( or proxy need to be setup to access the external repo’s )
   6. DNS ( forward and reverse look up’s should be functional) and NTP setup
   7. AD users added to Linux

# Server Reboot:

Since SELINUX has been disabled and also to verify other configuration , it is advisable to reboot the servers . Please let us know once the reboot is complete .

# Hadoop Servers Pre-Requisite Validation

## Master-1 : 10.100.74.41

1. OS Version : RedHat 6.9

[zaloni1@netf-pmbigdat01 ~]$ date

Mon Aug 7 17:01:57 -05 2017

[zaloni1@netf-pmbigdat01 ~]$ cat /etc/redhat-release

Red Hat Enterprise Linux Server release 6.9 (Santiago)

[zaloni1@netf-pmbigdat01 ~]$

1. Disk Formatting

[zaloni1@netf-pmbigdat01 ~]$ date

Mon Aug 7 11:53:08 -05 2017

[zaloni1@netf-pmbigdat01 ~]$ df -h

Filesystem Size Used Avail Use% Mounted on

/dev/sda6 134G 1.7G 126G 2% /

tmpfs 126G 0 126G 0% /dev/shm

/dev/sda1 976M 76M 850M 9% /boot

/dev/sda2 246G 60M 234G 1% /opt

/dev/sda5 197G 60M 187G 1% /tmp

/dev/sda3 246G 959M 233G 1% /var

/dev/sdb1 1.7T 69M 1.6T 1% /grid/0

/dev/sdc1 824G 73M 783G 1% /master/0

/dev/sdd1 824G 73M 783G 1% /master/1

[root@netf-pmbigdat01 ~]# lsblk --fs

NAME FSTYPE LABEL UUID MOUNTPOINT

sda

├─sda1 ext4 c8247eca-0d95-4f9a-b480-5f6038045da0 /boot

├─sda2 ext4 9c695481-3c48-4be3-80fa-4ac3ae467187 /opt

├─sda3 ext4 d58c67f1-7e90-4100-89c1-af894761ec82 /var

├─sda4

├─sda5 ext4 0f66e5f5-c812-45ed-9b60-ae5cd533bf72 /tmp

└─sda6 ext4 66dc936b-166c-4f8f-a1bc-18cd210011ec /

sdb

└─sdb1 ext4 93e6de1f-e6ed-4c65-b6f0-b94106f15bf7 /grid/0

sdc

└─sdc1 ext4 b9a6a6f0-8cbf-4713-9629-c3ac31920bc0 /master/0

sdd

└─sdd1 ext4 be75781f-cfe5-4d61-90b0-422ffd2cbc8a /master/1

[root@netf-pmbigdat01 ~]# date

Thu Aug 10 21:36:55 -05 2017

1. OS Level checks:
   1. Swappiness : Recommended value has been set for the host.

[zaloni1@netf-pmbigdat01 ~]$ date

Mon Aug 7 12:18:01 -05 2017

[zaloni1@netf-pmbigdat01 ~]$ cat /proc/sys/vm/swappiness

20

[zaloni1@netf-pmbigdat01 ~]$ sudo su -

[sudo] password for zaloni1:

[root@netf-pmbigdat01 ~]# vi /etc/sysctl.conf

[root@netf-pmbigdat01 ~]# clear

[root@netf-pmbigdat01 ~]# sysctl vm.swappiness=1

vm.swappiness = 1

[root@netf-pmbigdat01 ~]# clear

[root@netf-pmbigdat01 ~]# cat /proc/sys/vm/swappiness

1

[root@netf-pmbigdat01 ~]#

* 1. Iptables : iptables have been switched off as recommened

[root@netf-pmbigdat01 ~]# date

Mon Aug 7 12:11:38 -05 2017

[root@netf-pmbigdat01 ~]# service iptables status

iptables: Firewall is not running.

[root@netf-pmbigdat01 ~]# chkconfig iptables --list

iptables 0:off 1:off 2:on 3:on 4:on 5:on 6:off

[root@netf-pmbigdat01 ~]# #####

[root@netf-pmbigdat01 ~]# chkconfig iptables off

[root@netf-pmbigdat01 ~]# chkconfig iptables --list

iptables 0:off 1:off 2:off 3:off 4:off 5:off 6:off

* 1. ntp services

[root@netf-pmbigdat01 ~]# date

Mon Aug 7 12:49:47 -05 2017

[root@netf-pmbigdat01 ~]# service ntpd status

ntpd (pid 8427) is running...

[root@netf-pmbigdat01 ~]# chkconfig ntpd --list

ntpd 0:off 1:off 2:on 3:on 4:on 5:on 6:off

* 1. SE-Linux : se-linux has been disabled as recommended . Reboot of the servers is needed .

[root@netf-pmbigdat01 ~]# date

Mon Aug 7 12:23:57 -05 2017

[root@netf-pmbigdat01 ~]# cat /etc/sysconfig/selinux

# This file controls the state of SELinux on the system.

# SELINUX= can take one of these three values:

# enforcing - SELinux security policy is enforced.

# permissive - SELinux prints warnings instead of enforcing.

# disabled - No SELinux policy is loaded.

SELINUX=enforcing

# SELINUXTYPE= can take one of these two values:

# targeted - Targeted processes are protected,

# mls - Multi Level Security protection.

SELINUXTYPE=targeted

[root@netf-pmbigdat01 ~]# vi /etc/sysconfig/selinux

[root@netf-pmbigdat01 ~]# cat /etc/sysconfig/selinux

# This file controls the state of SELinux on the system.

# SELINUX= can take one of these three values:

# enforcing - SELinux security policy is enforced.

# permissive - SELinux prints warnings instead of enforcing.

# disabled - No SELinux policy is loaded.

SELINUX=disabled

# SELINUXTYPE= can take one of these two values:

# targeted - Targeted processes are protected,

# mls - Multi Level Security protection.

SELINUXTYPE=targeted

[root@netf-pmbigdat01 ~]# sestatus

SELinux status: enabled

SELinuxfs mount: /selinux

Current mode: enforcing

Mode from config file: disabled

Policy version: 24

Policy from config file: targeted

[root@netf-pmbigdat01 ~]# setenforce 0

[root@netf-pmbigdat01 ~]# sestatus

SELinux status: enabled

SELinuxfs mount: /selinux

Current mode: permissive

Mode from config file: disabled

Policy version: 24

Policy from config file: targeted

[root@netf-pmbigdat01 ~]#

* 1. Hostname : FQDN missing . Integrating Linux server to AD/DNS will be a proper configuration .

[root@netf-pmbigdat01 ~]# hostname

netf-pmbigdat01

[root@netf-pmbigdat01 ~]# hostname -f

hostname: Host name lookup failure

[root@netf-pmbigdat01 ~]# date

Thu Aug 10 21:38:19 -05 2017

[root@netf-pmbigdat01 ~]#

* 1. DNS forward & reverse lookup : DNS entry has not been made .

[root@netf-pmbigdat01 ~]# nslookup 10.100.74.41

Server: 10.100.65.11

Address: 10.100.65.11#53

41.74.100.10.in-addr.arpa name = netf-pmbigdat01.epmtelco.com.co.

[root@netf-pmbigdat01 ~]# nslookup netf-pmbigdat01.epmtelco.com.co

Server: 10.100.65.11

Address: 10.100.65.11#53

Name: netf-pmbigdat01.epmtelco.com.co

Address: 10.100.74.41

[root@netf-pmbigdat01 ~]# date

Thu Aug 10 21:43:28 -05 2017

## Master-2 : 10.100.74.42 :

1. OS Version : RedHat 6.9

[root@netf-pmbigdat02 ~]# date

Thu Aug 10 21:49:33 -05 2017

[root@netf-pmbigdat02 ~]# cat /etc/redhat-release

Red Hat Enterprise Linux Server release 6.9 (Santiago)

[root@netf-pmbigdat02 ~]#

1. Disk Formatting

[root@netf-pmbigdat02 ~]# date

Thu Aug 10 21:50:19 -05 2017

[root@netf-pmbigdat02 ~]# df -h

Filesystem Size Used Avail Use% Mounted on

/dev/sda6 134G 1.8G 126G 2% /

tmpfs 126G 0 126G 0% /dev/shm

/dev/sda1 976M 76M 850M 9% /boot

/dev/sda2 246G 60M 234G 1% /opt

/dev/sda5 197G 60M 187G 1% /tmp

/dev/sda3 246G 664M 233G 1% /var

/dev/sdb1 1.7T 69M 1.6T 1% /grid/0

/dev/sdc1 824G 73M 783G 1% /master/0

/dev/sdd1 824G 73M 783G 1% /master/1

[root@netf-pmbigdat02 ~]#

[root@netf-pmbigdat02 ~]# lsblk --fs

NAME FSTYPE LABEL UUID MOUNTPOINT

sda

├─sda1 ext4 8ea0f24d-2b62-4785-8333-d27ed4e768c8 /boot

├─sda2 ext4 0ea0fc76-8eca-455e-b22f-91aa7fd8d650 /opt

├─sda3 ext4 21e0b33a-d83c-4edb-8431-bd5063fd44a8 /var

├─sda4

├─sda5 ext4 e207eac7-05d1-415f-a25c-8dd10dbeb4ff /tmp

└─sda6 ext4 74ce0209-7b0f-467f-a341-6cd389633b4d /

sdb

└─sdb1 ext4 fec46c75-7ddb-4cc6-b430-2552886abd99 /grid/0

sdc

└─sdc1 ext4 636ed54a-6297-40f3-9d5e-e129b7837556 /master/0

sdd

└─sdd1 ext4 dd33350b-3e7b-47a5-a2bf-8c4bb7100e31 /master/1

[root@netf-pmbigdat02 ~]# date

Thu Aug 10 21:50:55 -05 2017

[root@netf-pmbigdat02 ~]#

1. OS Level checks:
   1. Swappiness : Recommended value has been set for the host.

[root@netf-pmbigdat02 ~]# date

Thu Aug 10 21:52:25 -05 2017

[root@netf-pmbigdat02 ~]# cat /proc/sys/vm/swappiness

20

[root@netf-pmbigdat02 ~]# vi /etc/sysctl.conf

[root@netf-pmbigdat02 ~]# sysctl vm.swappiness=1

vm.swappiness = 1

[root@netf-pmbigdat02 ~]# cat /proc/sys/vm/swappiness

1

[root@netf-pmbigdat02 ~]#

* 1. Iptables : iptables have been switched off as recommended

[root@netf-pmbigdat02 ~]# date

Thu Aug 10 21:55:36 -05 2017

[root@netf-pmbigdat02 ~]# service iptables status

iptables: Firewall is not running.

[root@netf-pmbigdat02 ~]# chkconfig iptables --list

iptables 0:off 1:off 2:on 3:on 4:on 5:on 6:off

[root@netf-pmbigdat02 ~]# chkconfig iptables off

[root@netf-pmbigdat02 ~]# chkconfig iptables --list

iptables 0:off 1:off 2:off 3:off 4:off 5:off 6:off

[root@netf-pmbigdat02 ~]#

* 1. ntp services

[root@netf-pmbigdat02 ~]# date

Thu Aug 10 21:57:35 -05 2017

[root@netf-pmbigdat02 ~]# service ntpd status

ntpd (pid 4273) is running...

[root@netf-pmbigdat02 ~]# chkconfig ntpd --list

ntpd 0:off 1:off 2:on 3:on 4:on 5:on 6:off

[root@netf-pmbigdat02 ~]# chkconfig ntpd on

[root@netf-pmbigdat02 ~]# chkconfig ntpd --list

ntpd 0:off 1:off 2:on 3:on 4:on 5:on 6:off

[root@netf-pmbigdat02 ~]#

* 1. SE-Linux : se-linux has been disabled as recommended . Reboot of the servers is needed .

[root@netf-pmbigdat02 ~]# date

Thu Aug 10 21:58:56 -05 2017

[root@netf-pmbigdat02 ~]# sestatus

SELinux status: disabled

[root@netf-pmbigdat02 ~]# vi /etc/sysconfig/selinux

[root@netf-pmbigdat02 ~]# ls -lrt /etc/sysconfig/selinux

lrwxrwxrwx. 1 root root 17 Jul 31 16:18 /etc/sysconfig/selinux -> ../selinux/config

[root@netf-pmbigdat02 ~]# cat /etc/sysconfig/selinux

# This file controls the state of SELinux on the system.

# SELINUX= can take one of these three values:

# enforcing - SELinux security policy is enforced.

# permissive - SELinux prints warnings instead of enforcing.

# disabled - No SELinux policy is loaded.

SELINUX=disabled

# SELINUXTYPE= can take one of these two values:

# targeted - Targeted processes are protected,

# mls - Multi Level Security protection.

SELINUXTYPE=targeted

[root@netf-pmbigdat02 ~]#

* 1. Hostname : FQDN missing . Integrating Linux server to AD/DNS will be a proper configuration .

[root@netf-pmbigdat02 ~]# date

Thu Aug 10 22:00:32 -05 2017

[root@netf-pmbigdat02 ~]# hostname

netf-pmbigdat02

[root@netf-pmbigdat02 ~]# hostname -f

hostname: Host name lookup failure

[root@netf-pmbigdat02 ~]#

* 1. DNS forward & reverse lookup : DNS entry has not been made .

[root@netf-pmbigdat02 ~]# nslookup 10.100.74.42

Server: 10.100.65.11

Address: 10.100.65.11#53

42.74.100.10.in-addr.arpa name = netf-pmbigdat02.epmtelco.com.co.

[root@netf-pmbigdat02 ~]# nslookup netf-pmbigdat02.epmtelco.com.co

Server: 10.100.65.11

Address: 10.100.65.11#53

Name: netf-pmbigdat02.epmtelco.com.co

Address: 10.100.74.42

[root@netf-pmbigdat02 ~]# date

Thu Aug 10 22:01:29 -05 2017

[root@netf-pmbigdat02 ~]#

## Datanode-1 : 10.100.74.36 :

1. OS Version : Red-Hat 6.9

[root@netf-pebigdat01 ~]# date

Mon Aug 7 13:52:27 -05 2017

[root@netf-pebigdat01 ~]# cat /etc/redhat-release

Red Hat Enterprise Linux Server release 6.9 (Santiago)

1. Disk Formatting

[root@netf-pebigdat01 ~]# date

Mon Aug 7 13:53:29 -05 2017

[root@netf-pebigdat01 ~]# df -h

Filesystem Size Used Avail Use% Mounted on

/dev/sda6 110G 1.9G 103G 2% /

tmpfs 126G 0 126G 0% /dev/shm

/dev/sda1 976M 77M 848M 9% /boot

/dev/sda5 118G 60M 112G 1% /opt

/dev/sda2 173G 60M 164G 1% /tmp

/dev/sda3 148G 660M 140G 1% /var

/dev/sdb1 3.6T 68M 3.4T 1% /grid/0

/dev/sdc1 3.6T 68M 3.4T 1% /grid/1

/dev/sdd1 3.6T 68M 3.4T 1% /grid/2

/dev/sde1 3.6T 68M 3.4T 1% /grid/3

/dev/sdf1 3.6T 68M 3.4T 1% /grid/4

/dev/sdg1 3.6T 68M 3.4T 1% /grid/5

/dev/sdh1 3.6T 68M 3.4T 1% /grid/6

/dev/sdi1 3.6T 68M 3.4T 1% /grid/7

/dev/sdj1 3.6T 68M 3.4T 1% /grid/8

/dev/sdk1 3.6T 68M 3.4T 1% /grid/9

/dev/sdl1 3.6T 68M 3.4T 1% /grid/10

/dev/sdm1 3.6T 68M 3.4T 1% /grid/11

[root@netf-pebigdat01 ~]# cat /etc/fstab

#

# /etc/fstab

# Created by anaconda on Mon Jul 31 21:39:36 2017

#

# Accessible filesystems, by reference, are maintained under '/dev/disk'

# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info

#

UUID=cb1ef074-ca0f-4954-b802-d94fc467e85d / ext4 defaults 1 1

UUID=f5ef3c39-0ac8-4c27-a624-ba02e5496a6e /boot ext4 defaults 1 2

UUID=45fd0359-d797-4644-9655-ab68a894dcd1 /opt ext4 defaults 1 2

UUID=fbd0a4fd-22ed-403b-853d-2cb2e91bb146 /tmp ext4 defaults 1 2

UUID=bdf646b7-da9e-40ad-9f76-d031a48a515e /var ext4 defaults 1 2

tmpfs /dev/shm tmpfs defaults 0 0

devpts /dev/pts devpts gid=5,mode=620 0 0

sysfs /sys sysfs defaults 0 0

proc /proc proc defaults 0 0

/dev/sdb1 /grid/0 ext4 defaults,noatime 0 0

/dev/sdc1 /grid/1 ext4 defaults,noatime 0 0

/dev/sdd1 /grid/2 ext4 defaults,noatime 0 0

/dev/sde1 /grid/3 ext4 defaults,noatime 0 0

/dev/sdf1 /grid/4 ext4 defaults,noatime 0 0

/dev/sdg1 /grid/5 ext4 defaults,noatime 0 0

/dev/sdh1 /grid/6 ext4 defaults,noatime 0 0

/dev/sdi1 /grid/7 ext4 defaults,noatime 0 0

/dev/sdj1 /grid/8 ext4 defaults,noatime 0 0

/dev/sdk1 /grid/9 ext4 defaults,noatime 0 0

/dev/sdl1 /grid/10 ext4 defaults,noatime 0 0

/dev/sdm1 /grid/11 ext4 defaults,noatime 0 0

[root@netf-pebigdat01 ~]# date

Thu Aug 10 22:16:29 -05 2017

[root@netf-pebigdat01 ~]#

1. OS Level checks:
   1. Swappiness :

[root@netf-pebigdat01 ~]# date

Mon Aug 7 14:21:24 -05 2017

[root@netf-pebigdat01 ~]# cat /proc/sys/vm/swappiness

20

[root@netf-pebigdat01 ~]# vi /etc/sysctl.conf

[root@netf-pebigdat01 ~]# sysctl vm.swappiness=1

vm.swappiness = 1

[root@netf-pebigdat01 ~]# cat /proc/sys/vm/swappiness

1

* 1. Iptables :

[root@netf-pebigdat01 ~]# date

Mon Aug 7 14:24:22 -05 2017

[root@netf-pebigdat01 ~]# service iptables status

iptables: Firewall is not running.

[root@netf-pebigdat01 ~]# chkconfig iptables --list

iptables 0:off 1:off 2:on 3:on 4:on 5:on 6:off

[root@netf-pebigdat01 ~]# chkconfig iptables off

[root@netf-pebigdat01 ~]# chkconfig iptables --list

iptables 0:off 1:off 2:off 3:off 4:off 5:off 6:off

### ntp service

[root@netf-pebigdat01 ~]# date

Mon Aug 7 14:26:07 -05 2017

[root@netf-pebigdat01 ~]# service ntpd status

ntpd (pid 9080) is running...

[root@netf-pebigdat01 ~]# chkconfig ntpd --list

ntpd 0:off 1:off 2:on 3:on 4:on 5:on 6:off

[root@netf-pebigdat01 ~]# chkconfig ntpd on

[root@netf-pebigdat01 ~]# chkconfig ntpd --list

ntpd 0:off 1:off 2:on 3:on 4:on 5:on 6:off

* 1. Se-linux: se-linux has been disabled as recommended . Reboot of the servers is needed .

[root@netf-pebigdat01 ~]# date

Mon Aug 7 14:27:45 -05 2017

[root@netf-pebigdat01 ~]# sestatus

SELinux status: enabled

SELinuxfs mount: /selinux

Current mode: enforcing

Mode from config file: enforcing

Policy version: 24

Policy from config file: targeted

[root@netf-pebigdat01 ~]# setenforce 0

[root@netf-pebigdat01 ~]# sestatus

SELinux status: enabled

SELinuxfs mount: /selinux

Current mode: permissive

Mode from config file: enforcing

Policy version: 24

Policy from config file: targeted

[root@netf-pebigdat01 ~]# vi /etc/sysconfig/selinux

[root@netf-pebigdat01 ~]# sestatus

SELinux status: enabled

SELinuxfs mount: /selinux

Current mode: permissive

Mode from config file: disabled

Policy version: 24

Policy from config file: targeted

[root@netf-pebigdat01 ~]# cat /etc/sysconfig/selinux

# This file controls the state of SELinux on the system.

# SELINUX= can take one of these three values:

# enforcing - SELinux security policy is enforced.

# permissive - SELinux prints warnings instead of enforcing.

# disabled - No SELinux policy is loaded.

SELINUX=disabled

# SELINUXTYPE= can take one of these two values:

# targeted - Targeted processes are protected,

# mls - Multi Level Security protection.

SELINUXTYPE=targeted

[root@netf-pebigdat01 ~]#

* 1. Hostname :

[root@netf-pebigdat01 ~]# hostname

netf-pebigdat01

[root@netf-pebigdat01 ~]# hostname -f

hostname: Host name lookup failure

[root@netf-pebigdat01 ~]# date

Thu Aug 10 22:19:26 -05 2017

[root@netf-pebigdat01 ~]#

* 1. DNS forward & reverse lookup

[root@netf-pebigdat01 ~]# date

Thu Aug 10 22:20:00 -05 2017

[root@netf-pebigdat01 ~]# nslookup 10.100.74.36

Server: 10.100.65.11

Address: 10.100.65.11#53

36.74.100.10.in-addr.arpa name = netf-pebigdat01.epmtelco.com.co.

[root@netf-pebigdat01 ~]# nslookup netf-pebigdat01.epmtelco.com.co

Server: 10.100.65.11

Address: 10.100.65.11#53

Name: netf-pebigdat01.epmtelco.com.co

Address: 10.100.74.36

[root@netf-pebigdat01 ~]#

## Datanode-2 : 10.100.74.37 :

1. OS Version : Red-Hat 6.9

[root@netf-pebigdat02 ~]# clear

[root@netf-pebigdat02 ~]# date

Mon Aug 7 14:48:34 -05 2017

[root@netf-pebigdat02 ~]# cat /etc/redhat-release

Red Hat Enterprise Linux Server release 6.9 (Santiago)

1. Disk Formatting : noatime mount option is not in /etc/fstab for datanodes .

[root@netf-pebigdat02 ~]# date

Mon Aug 7 14:52:10 -05 2017

[root@netf-pebigdat02 ~]# df -h

Filesystem Size Used Avail Use% Mounted on

/dev/sda6 110G 1.7G 103G 2% /

tmpfs 126G 0 126G 0% /dev/shm

/dev/sda1 976M 76M 850M 9% /boot

/dev/sda5 118G 60M 112G 1% /opt

/dev/sda2 173G 60M 164G 1% /tmp

/dev/sda3 148G 658M 140G 1% /var

/dev/sdb1 3.6T 68M 3.4T 1% /grid/0

/dev/sdc1 3.6T 68M 3.4T 1% /grid/1

/dev/sdd1 3.6T 68M 3.4T 1% /grid/2

/dev/sde1 3.6T 68M 3.4T 1% /grid/3

/dev/sdf1 3.6T 68M 3.4T 1% /grid/4

/dev/sdg1 3.6T 68M 3.4T 1% /grid/5

/dev/sdh1 3.6T 68M 3.4T 1% /grid/6

/dev/sdi1 3.6T 68M 3.4T 1% /grid/7

/dev/sdj1 3.6T 68M 3.4T 1% /grid/8

/dev/sdk1 3.6T 68M 3.4T 1% /grid/9

/dev/sdl1 3.6T 68M 3.4T 1% /grid/10

/dev/sdm1 3.6T 68M 3.4T 1% /grid/11

[root@netf-pebigdat02 ~]# date

Thu Aug 10 22:32:24 -05 2017

[root@netf-pebigdat02 ~]# cat /etc/fstab

#

# /etc/fstab

# Created by anaconda on Tue Aug 1 00:20:09 2017

#

# Accessible filesystems, by reference, are maintained under '/dev/disk'

# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info

#

UUID=607b960f-9fec-49d0-a8ed-fcd0d1b00712 / ext4 defaults 1 1

UUID=dfb1c8a1-f628-40ae-9630-c93928a7748b /boot ext4 defaults 1 2

UUID=22f00b74-5d47-4518-880a-faf3c89617d3 /opt ext4 defaults 1 2

UUID=eca88516-463a-4169-b69c-5252eb4fe0f5 /tmp ext4 defaults 1 2

UUID=be1888dd-402d-4d83-af35-29c8642b3e28 /var ext4 defaults 1 2

tmpfs /dev/shm tmpfs defaults 0 0

devpts /dev/pts devpts gid=5,mode=620 0 0

sysfs /sys sysfs defaults 0 0

proc /proc proc defaults 0 0

/dev/sdb1 /grid/0 ext4 defaults,noatime 0 0

/dev/sdc1 /grid/1 ext4 defaults,noatime 0 0

/dev/sdd1 /grid/2 ext4 defaults,noatime 0 0

/dev/sde1 /grid/3 ext4 defaults,noatime 0 0

/dev/sdf1 /grid/4 ext4 defaults,noatime 0 0

/dev/sdg1 /grid/5 ext4 defaults,noatime 0 0

/dev/sdh1 /grid/6 ext4 defaults,noatime 0 0

/dev/sdi1 /grid/7 ext4 defaults,noatime 0 0

/dev/sdj1 /grid/8 ext4 defaults,noatime 0 0

/dev/sdk1 /grid/9 ext4 defaults,noatime 0 0

/dev/sdl1 /grid/10 ext4 defaults,noatime 0 0

/dev/sdm1 /grid/11 ext4 defaults,noatime 0 0

[root@netf-pebigdat02 ~]#

1. OS Level checks:
2. Swappiness :

[root@netf-pebigdat02 ~]# date

Mon Aug 7 14:57:59 -05 2017

[root@netf-pebigdat02 ~]# cat /proc/sys/vm/swappiness

20

[root@netf-pebigdat02 ~]# sysctl vm.swappiness=1

vm.swappiness = 1

[root@netf-pebigdat02 ~]# vi /etc/sysctl.conf

[root@netf-pebigdat02 ~]# vi /etc/sysctl.conf

[root@netf-pebigdat02 ~]# cat /proc/sys/vm/swappiness

1

[root@netf-pebigdat02 ~]#

1. Iptables :

[root@netf-pebigdat02 ~]# date

Mon Aug 7 16:16:19 -05 2017

[root@netf-pebigdat02 ~]# service iptables status

iptables: Firewall is not running.

[root@netf-pebigdat02 ~]# chkconfig iptables --list

iptables 0:off 1:off 2:on 3:on 4:on 5:on 6:off

[root@netf-pebigdat02 ~]# chkconfig iptables off

[root@netf-pebigdat02 ~]# chkconfig iptables --list

iptables 0:off 1:off 2:off 3:off 4:off 5:off 6:off

[root@netf-pebigdat02 ~]#

1. ntp service

[root@netf-pebigdat02 ~]# date

Mon Aug 7 16:17:20 -05 2017

[root@netf-pebigdat02 ~]# service ntpd status

ntpd (pid 9041) is running...

[root@netf-pebigdat02 ~]# chkconfig ntpd --list

ntpd 0:off 1:off 2:on 3:on 4:on 5:on 6:off

[root@netf-pebigdat02 ~]# chkconfig ntpd on

[root@netf-pebigdat02 ~]# chkconfig ntpd --list

ntpd 0:off 1:off 2:on 3:on 4:on 5:on 6:off

[root@netf-pebigdat02 ~]#

1. Se-linux

[root@netf-pebigdat02 ~]# date

Mon Aug 7 16:17:58 -05 2017

[root@netf-pebigdat02 ~]# sestatus

SELinux status: enabled

SELinuxfs mount: /selinux

Current mode: enforcing

Mode from config file: enforcing

Policy version: 24

Policy from config file: targeted

[root@netf-pebigdat02 ~]# setentforce 0

-bash: setentforce: command not found

[root@netf-pebigdat02 ~]# setenforce 0

[root@netf-pebigdat02 ~]# sestatus

SELinux status: enabled

SELinuxfs mount: /selinux

Current mode: permissive

Mode from config file: enforcing

Policy version: 24

Policy from config file: targeted

[root@netf-pebigdat02 ~]# vi /etc/sys

sysconfig/ sysctl.conf sysctl.d/ system-release system-release-cpe

[root@netf-pebigdat02 ~]# ls -lrt /etc/sysconfig/selinux

lrwxrwxrwx. 1 root root 17 Aug 1 00:23 /etc/sysconfig/selinux -> ../selinux/config

[root@netf-pebigdat02 ~]# vi /etc/sysconfig/selinux

[root@netf-pebigdat02 ~]# sestatus

SELinux status: enabled

SELinuxfs mount: /selinux

Current mode: permissive

Mode from config file: disabled

Policy version: 24

Policy from config file: targeted

[root@netf-pebigdat02 ~]#

1. Hostname :

[root@netf-pebigdat02 ~]# hostname

netf-pebigdat02

[root@netf-pebigdat02 ~]# hostname -f

hostname: Host name lookup failure

[root@netf-pebigdat02 ~]# date

Thu Aug 10 22:33:32 -05 2017

[root@netf-pebigdat02 ~]#

1. DNS forward & reverse lookup

[root@netf-pebigdat02 ~]# nslookup 10.100.74.37

Server: 10.100.65.11

Address: 10.100.65.11#53

37.74.100.10.in-addr.arpa name = netf-pebigdat02.epmtelco.com.co.

[root@netf-pebigdat02 ~]# nslookup netf-pebigdat02.epmtelco.com.co

Server: 10.100.65.11

Address: 10.100.65.11#53

Name: netf-pebigdat02.epmtelco.com.co

Address: 10.100.74.37

[root@netf-pebigdat02 ~]# date

Thu Aug 10 22:34:31 -05 2017

[root@netf-pebigdat02 ~]#

## Datanode-3 : 10.100.74.38 :

1. OS Version : Red-Hat 6.9

[zaloni1@netf-pebigdat03 ~]$ date

Thu Aug 10 22:39:29 -05 2017

[zaloni1@netf-pebigdat03 ~]$ cat /etc/redhat-release

Red Hat Enterprise Linux Server release 6.9 (Santiago)

[zaloni1@netf-pebigdat03 ~]$

1. Disk Formatting : noatime mount option is not in /etc/fstab for datanodes .

[zaloni1@netf-pebigdat03 ~]$ date

Thu Aug 10 22:39:56 -05 2017

[zaloni1@netf-pebigdat03 ~]$ df -h

Filesystem Size Used Avail Use% Mounted on

/dev/sda6 110G 2.1G 103G 2% /

tmpfs 126G 0 126G 0% /dev/shm

/dev/sda1 976M 77M 848M 9% /boot

/dev/sda5 118G 60M 112G 1% /opt

/dev/sda2 173G 68M 164G 1% /tmp

/dev/sda3 148G 680M 140G 1% /var

/dev/sdb1 3.6T 68M 3.4T 1% /grid/0

/dev/sdc1 3.6T 68M 3.4T 1% /grid/1

/dev/sdd1 3.6T 68M 3.4T 1% /grid/2

/dev/sde1 3.6T 68M 3.4T 1% /grid/3

/dev/sdf1 3.6T 68M 3.4T 1% /grid/4

/dev/sdg1 3.6T 68M 3.4T 1% /grid/5

/dev/sdh1 3.6T 68M 3.4T 1% /grid/6

/dev/sdi1 3.6T 68M 3.4T 1% /grid/7

/dev/sdj1 3.6T 68M 3.4T 1% /grid/8

/dev/sdk1 3.6T 68M 3.4T 1% /grid/9

/dev/sdl1 3.6T 68M 3.4T 1% /grid/10

/dev/sdm1 3.6T 68M 3.4T 1% /grid/11

[zaloni1@netf-pebigdat03 ~]$

[root@netf-pebigdat03 ~]# cat /etc/fstab

#

# /etc/fstab

# Created by anaconda on Fri Jul 28 22:50:13 2017

#

# Accessible filesystems, by reference, are maintained under '/dev/disk'

# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info

#

UUID=3d8aa804-5ffd-4ea8-a160-795c3da6b10c / ext4 defaults 1 1

UUID=09106482-dedd-4854-8ecb-06978044422e /boot ext4 defaults 1 2

UUID=7c46369a-5200-4548-88fb-a8ea9cf8d8a5 /opt ext4 defaults 1 2

UUID=6c93b1ec-f9a4-475a-b77a-5f805236f393 /tmp ext4 defaults 1 2

UUID=951c8ad4-71ac-4efc-b5fb-364b86a98f6a /var ext4 defaults 1 2

tmpfs /dev/shm tmpfs defaults 0 0

devpts /dev/pts devpts gid=5,mode=620 0 0

sysfs /sys sysfs defaults 0 0

proc /proc proc defaults 0 0

/dev/sdb1 /grid/0 ext4 defaults,noatime 0 0

/dev/sdc1 /grid/1 ext4 defaults,noatime 0 0

/dev/sdd1 /grid/2 ext4 defaults,noatime 0 0

/dev/sde1 /grid/3 ext4 defaults,noatime 0 0

/dev/sdf1 /grid/4 ext4 defaults,noatime 0 0

/dev/sdg1 /grid/5 ext4 defaults,noatime 0 0

/dev/sdh1 /grid/6 ext4 defaults,noatime 0 0

/dev/sdi1 /grid/7 ext4 defaults,noatime 0 0

/dev/sdj1 /grid/8 ext4 defaults,noatime 0 0

/dev/sdk1 /grid/9 ext4 defaults,noatime 0 0

/dev/sdl1 /grid/10 ext4 defaults,noatime 0 0

/dev/sdm1 /grid/11 ext4 defaults,noatime 0 0

[root@netf-pebigdat03 ~]# date

Thu Aug 10 22:43:00 -05 2017

[root@netf-pebigdat03 ~]#

1. OS Level checks:
2. Swappiness :

[root@netf-pebigdat03 ~]# date

Thu Aug 10 22:44:14 -05 2017

[root@netf-pebigdat03 ~]# cat /proc/sys/vm/swappiness

20

[root@netf-pebigdat03 ~]# sysctl vm.swappiness=1

vm.swappiness = 1

[root@netf-pebigdat03 ~]# vi /etc/sysctl.conf

[root@netf-pebigdat03 ~]# cat /proc/sys/vm/swappiness

1

[root@netf-pebigdat03 ~]#

1. Iptables :

[root@netf-pebigdat03 ~]# service iptables status

iptables: Firewall is not running.

[root@netf-pebigdat03 ~]# chkconfig iptables --list

iptables 0:off 1:off 2:on 3:on 4:on 5:on 6:off

[root@netf-pebigdat03 ~]# chkconfig iptables off

[root@netf-pebigdat03 ~]# chkconfig iptables --list

iptables 0:off 1:off 2:off 3:off 4:off 5:off 6:off

[root@netf-pebigdat03 ~]# date

Thu Aug 10 22:48:06 -05 2017

[root@netf-pebigdat03 ~]#

1. ntp service

[root@netf-pebigdat03 ~]# date

Thu Aug 10 22:48:41 -05 2017

[root@netf-pebigdat03 ~]# service ntpd status

ntpd (pid 5043) is running...

[root@netf-pebigdat03 ~]# chkconfig ntpd --list

ntpd 0:off 1:off 2:on 3:on 4:on 5:on 6:off

[root@netf-pebigdat03 ~]# chkconfig ntpd on

[root@netf-pebigdat03 ~]# chkconfig ntpd --list

ntpd 0:off 1:off 2:on 3:on 4:on 5:on 6:off

[root@netf-pebigdat03 ~]#

1. Se-linux

[root@netf-pebigdat03 ~]# sestatus

SELinux status: disabled

[root@netf-pebigdat03 ~]# cat /etc/sysconfig/selinux

# This file controls the state of SELinux on the system.

# SELINUX= can take one of these three values:

# enforcing - SELinux security policy is enforced.

# permissive - SELinux prints warnings instead of enforcing.

# disabled - No SELinux policy is loaded.

SELINUX=disabled

# SELINUXTYPE= can take one of these two values:

# targeted - Targeted processes are protected,

# mls - Multi Level Security protection.

SELINUXTYPE=targeted

[root@netf-pebigdat03 ~]# date

Thu Aug 10 22:52:05 -05 2017

[root@netf-pebigdat03 ~]#

1. Hostname :

[root@netf-pebigdat03 ~]# hostname

netf-pebigdat03

[root@netf-pebigdat03 ~]# hostname -f

hostname: Host name lookup failure

[root@netf-pebigdat03 ~]# date

Thu Aug 10 22:52:38 -05 2017

[root@netf-pebigdat03 ~]#

1. DNS forward & reverse lookup

[root@netf-pebigdat03 ~]# nslookup 10.100.74.38

Server: 10.100.65.11

Address: 10.100.65.11#53

38.74.100.10.in-addr.arpa name = netf-pebigdat03.epmtelco.com.co.

[root@netf-pebigdat03 ~]# nslookup netf-pebigdat03.epmtelco.com.co

Server: 10.100.65.11

Address: 10.100.65.11#53

Name: netf-pebigdat03.epmtelco.com.co

Address: 10.100.74.38

[root@netf-pebigdat03 ~]# date

Thu Aug 10 22:53:40 -05 2017

[root@netf-pebigdat03 ~]#

## Datanode-4 : 10.100.74.39 :

1. OS Version : Red-Hat 6.9

[root@netf-pebigdat04 ~]# date

Mon Aug 7 16:22:49 -05 2017

[root@netf-pebigdat04 ~]# cat /etc/redhat-release

Red Hat Enterprise Linux Server release 6.9 (Santiago)

[root@netf-pebigdat04 ~]#

1. Disk Formatting : noatime mount option is not in /etc/fstab for datanodes .

[root@netf-pebigdat04 ~]# date

Mon Aug 7 16:23:13 -05 2017

[root@netf-pebigdat04 ~]# df -h

Filesystem Size Used Avail Use% Mounted on

/dev/sda6 110G 1.9G 103G 2% /

tmpfs 126G 0 126G 0% /dev/shm

/dev/sda1 976M 77M 849M 9% /boot

/dev/sda5 118G 60M 112G 1% /opt

/dev/sda2 173G 60M 164G 1% /tmp

/dev/sda3 148G 659M 140G 1% /var

/dev/sdb1 3.6T 68M 3.4T 1% /grid/0

/dev/sdc1 3.6T 68M 3.4T 1% /grid/1

/dev/sdd1 3.6T 68M 3.4T 1% /grid/2

/dev/sde1 3.6T 68M 3.4T 1% /grid/3

/dev/sdf1 3.6T 68M 3.4T 1% /grid/4

/dev/sdg1 3.6T 68M 3.4T 1% /grid/5

/dev/sdh1 3.6T 68M 3.4T 1% /grid/6

/dev/sdi1 3.6T 68M 3.4T 1% /grid/7

/dev/sdj1 3.6T 68M 3.4T 1% /grid/8

/dev/sdk1 3.6T 68M 3.4T 1% /grid/9

/dev/sdl1 3.6T 68M 3.4T 1% /grid/10

/dev/sdm1 3.6T 68M 3.4T 1% /grid/11

[root@netf-pebigdat04 ~]# date

Thu Aug 10 22:57:01 -05 2017

[root@netf-pebigdat04 ~]# cat /etc/fstab

#

# /etc/fstab

# Created by anaconda on Tue Aug 1 01:05:33 2017

#

# Accessible filesystems, by reference, are maintained under '/dev/disk'

# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info

#

UUID=0cffbe0f-79bc-4615-b67f-57b44ef3031b / ext4 defaults 1 1

UUID=c97d1af2-1311-4e09-963a-8a214318cb8a /boot ext4 defaults 1 2

UUID=f1e983b0-4ef8-4fd8-9438-91ae99ce51be /opt ext4 defaults 1 2

UUID=7d1d811b-01a0-4231-8681-455cb39131f6 /tmp ext4 defaults 1 2

UUID=5e42a39b-9b5f-438a-a460-38fbe9d24dba /var ext4 defaults 1 2

tmpfs /dev/shm tmpfs defaults 0 0

devpts /dev/pts devpts gid=5,mode=620 0 0

sysfs /sys sysfs defaults 0 0

proc /proc proc defaults 0 0

/dev/sdb1 /grid/0 ext4 defaults,noatime 0 0

/dev/sdc1 /grid/1 ext4 defaults,noatime 0 0

/dev/sdd1 /grid/2 ext4 defaults,noatime 0 0

/dev/sde1 /grid/3 ext4 defaults,noatime 0 0

/dev/sdf1 /grid/4 ext4 defaults,noatime 0 0

/dev/sdg1 /grid/5 ext4 defaults,noatime 0 0

/dev/sdh1 /grid/6 ext4 defaults,noatime 0 0

/dev/sdi1 /grid/7 ext4 defaults,noatime 0 0

/dev/sdj1 /grid/8 ext4 defaults,noatime 0 0

/dev/sdk1 /grid/9 ext4 defaults,noatime 0 0

/dev/sdl1 /grid/10 ext4 defaults,noatime 0 0

/dev/sdm1 /grid/11 ext4 defaults,noatime 0 0

[root@netf-pebigdat04 ~]#

1. OS Level checks:
2. Swappiness :

[root@netf-pebigdat04 ~]# cat /proc/sys/vm/swappiness

20

[root@netf-pebigdat04 ~]# sysctl vm.swappiness=1

vm.swappiness = 1

[root@netf-pebigdat04 ~]# vi /etc/sysctl.conf

[root@netf-pebigdat04 ~]# cat /proc/sys/vm/swappiness

1

[root@netf-pebigdat04 ~]# date

Mon Aug 7 16:25:04 -05 2017

[root@netf-pebigdat04 ~]#

1. Iptables :

[root@netf-pebigdat04 ~]# date

Mon Aug 7 16:25:24 -05 2017

[root@netf-pebigdat04 ~]# service iptables status

iptables: Firewall is not running.

[root@netf-pebigdat04 ~]# chkconfig iptables --list

iptables 0:off 1:off 2:on 3:on 4:on 5:on 6:off

[root@netf-pebigdat04 ~]# chkconfig iptables off

[root@netf-pebigdat04 ~]# chkconfig iptables --list

iptables 0:off 1:off 2:off 3:off 4:off 5:off 6:off

[root@netf-pebigdat04 ~]#

1. ntp service

[root@netf-pebigdat04 ~]# date

Mon Aug 7 16:26:02 -05 2017

[root@netf-pebigdat04 ~]# service ntpd status

ntpd (pid 9073) is running...

[root@netf-pebigdat04 ~]# chkconfig ntpd --list

ntpd 0:off 1:off 2:on 3:on 4:on 5:on 6:off

[root@netf-pebigdat04 ~]# chkconfig ntpd on

[root@netf-pebigdat04 ~]# chkconfig ntpd --list

ntpd 0:off 1:off 2:on 3:on 4:on 5:on 6:off

[root@netf-pebigdat04 ~]#

1. Se-linux

[root@netf-pebigdat04 ~]# sestatus

SELinux status: enabled

SELinuxfs mount: /selinux

Current mode: enforcing

Mode from config file: enforcing

Policy version: 24

Policy from config file: targeted

[root@netf-pebigdat04 ~]# setenforce 0

[root@netf-pebigdat04 ~]# sestatus

SELinux status: enabled

SELinuxfs mount: /selinux

Current mode: permissive

Mode from config file: enforcing

Policy version: 24

Policy from config file: targeted

[root@netf-pebigdat04 ~]# ls -lrt /etc/sysconfig/selinux

lrwxrwxrwx. 1 root root 17 Aug 1 01:09 /etc/sysconfig/selinux -> ../selinux/config

[root@netf-pebigdat04 ~]# vi /etc/sysconfig/selinux

[root@netf-pebigdat04 ~]# cat /etc/sysconfig/selinux

# This file controls the state of SELinux on the system.

# SELINUX= can take one of these three values:

# enforcing - SELinux security policy is enforced.

# permissive - SELinux prints warnings instead of enforcing.

# disabled - No SELinux policy is loaded.

SELINUX=disabled

# SELINUXTYPE= can take one of these two values:

# targeted - Targeted processes are protected,

# mls - Multi Level Security protection.

SELINUXTYPE=targeted

[root@netf-pebigdat04 ~]#

1. Hostname :

[root@netf-pebigdat04 ~]# date

Thu Aug 10 22:58:13 -05 2017

[root@netf-pebigdat04 ~]# hostname

netf-pebigdat04

[root@netf-pebigdat04 ~]# hostname -f

hostname: Host name lookup failure

[root@netf-pebigdat04 ~]#

1. DNS forward & reverse lookup

[root@netf-pebigdat04 ~]# nslookup 10.100.74.39

Server: 10.100.65.11

Address: 10.100.65.11#53

39.74.100.10.in-addr.arpa name = netf-pebigdat04.epmtelco.com.co.

[root@netf-pebigdat04 ~]# nslookup netf-pebigdat04.epmtelco.com.co

Server: 10.100.65.11

Address: 10.100.65.11#53

Name: netf-pebigdat04.epmtelco.com.co

Address: 10.100.74.39

[root@netf-pebigdat04 ~]# date

Thu Aug 10 22:59:26 -05 2017

[root@netf-pebigdat04 ~]#