[root@master ~]# systemctl stop firewalld

[root@master ~]# systemctl disable firewalld

[root@master ~]# vim /etc/selinux/config

[root@master ~]# yum -y install openldap-servers openldap-clients

Loaded plugins: fastestmirror, langpacks

Loading mirror speeds from cached hostfile

\* base: mirrors.nxtgen.com

\* extras: mirrors.nxtgen.com

\* updates: mirrors.nxtgen.com

base | 3.6 kB 00:00

extras | 2.9 kB 00:00

updates | 2.9 kB 00:00

xcat-core | 3.0 kB 00:00

xcat-dep | 2.9 kB 00:00

Resolving Dependencies

--> Running transaction check

---> Package openldap-clients.x86\_64 0:2.4.44-25.el7\_9 will be installed

---> Package openldap-servers.x86\_64 0:2.4.44-25.el7\_9 will be installed

--> Finished Dependency Resolution

Dependencies Resolved

========================================================================

Package Arch Version Repository Size

========================================================================

Installing:

openldap-clients x86\_64 2.4.44-25.el7\_9 updates 191 k

openldap-servers x86\_64 2.4.44-25.el7\_9 updates 2.2 M

Transaction Summary

========================================================================

Install 2 Packages

Total download size: 2.4 M

Installed size: 5.6 M

Downloading packages:

(1/2): openldap-clients-2.4.44-25.el7\_9.x86\_64.rpm | 191 kB 00:00

(2/2): openldap-servers-2.4.44-25.el7\_9.x86\_64.rpm | 2.2 MB 00:00

------------------------------------------------------------------------

Total 3.2 MB/s | 2.4 MB 00:00

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Installing : openldap-clients-2.4.44-25.el7\_9.x86\_64 1/2

Installing : openldap-servers-2.4.44-25.el7\_9.x86\_64 2/2

Verifying : openldap-servers-2.4.44-25.el7\_9.x86\_64 1/2

Verifying : openldap-clients-2.4.44-25.el7\_9.x86\_64 2/2

Installed:

openldap-clients.x86\_64 0:2.4.44-25.el7\_9

openldap-servers.x86\_64 0:2.4.44-25.el7\_9

Complete!

[root@master ~]# cp /usr/share/openldap-servers/DB\_CONFIG.example /var/lib/ldap/DB\_CONFIG

[root@master ~]# chown ldap. /var/lib/ldap/DB\_CONFIG

[root@master ~]# systemctl start slapd

[root@master ~]# systemctl enable slapd

Created symlink from /etc/systemd/system/multi-user.target.wants/slapd.service to /usr/lib/systemd/system/slapd.service.

[root@master ~]# slappasswd

New password:

Re-enter new password:

{SSHA}GdxKURlHZhcRWZbm3r0rFpDjaU56g3BO

[root@master ~]# vim chrootpw.ldif

[root@master ~]# vim chrootpw.ldif

[root@master ~]# ldapadd -Y EXTERNAL -H ldapi:/// -f chrootpw.ldif

SASL/EXTERNAL authentication started

SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth

SASL SSF: 0

modifying entry "olcDatabase={0}config,cn=config"

[root@master ~]# ldapadd -Y EXTERNAL -H ldapi:/// -f /etc/openldap/schema/cosine.ldif

SASL/EXTERNAL authentication started

SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth

SASL SSF: 0

adding new entry "cn=cosine,cn=schema,cn=config"

[root@master ~]# ldapadd -Y EXTERNAL -H ldapi:/// -f /etc/openldap/schema/nis.ldif

SASL/EXTERNAL authentication started

SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth

SASL SSF: 0

adding new entry "cn=nis,cn=schema,cn=config"

[root@master ~]# ldapadd -Y EXTERNAL -H ldapi:/// -f /etc/openldap/schema/inetorgperson.ldif

SASL/EXTERNAL authentication started

SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth

SASL SSF: 0

adding new entry "cn=inetorgperson,cn=schema,cn=config"

[root@master ~]# vim chdomain.ldif

[root@master ~]# ldapmodify -Y EXTERNAL -H ldapi:/// -f chdomain.ldif

SASL/EXTERNAL authentication started

SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth

SASL SSF: 0

modifying entry "olcDatabase={1}monitor,cn=config"

modifying entry "olcDatabase={2}hdb,cn=config"

modifying entry "olcDatabase={2}hdb,cn=config"

modifying entry "olcDatabase={2}hdb,cn=config"

modifying entry "olcDatabase={2}hdb,cn=config"

[root@master ~]# vim basedomain.ldif

[root@master ~]# vim basedomain.ldif

[root@master ~]# ldapadd -x -D cn=Manager,dc=hpcsa,dc=in -W -f basedomain.ldif

Enter LDAP Password:

adding new entry "dc=hpcsa,dc=in"

adding new entry "cn=Manager,dc=hpcsa,dc=in"

adding new entry "ou=People,dc=hpcsa,dc=in"

adding new entry "ou=Group,dc=hpcsa,dc=in"

[root@master ~]# vim ldapuser.ldif

[root@master ~]# ldapadd -x -D cn=Manager,dc=hpcsa,dc=in -W -f ldapuser.ldif

Enter LDAP Password:

adding new entry "uid=hpcsa1,ou=People,dc=hpcsa,dc=in"

adding new entry "cn=hpcsa1,ou=Group,dc=hpcsa,dc=in"

[root@master ~]# yum --installroot=/install/netboot/centos7.9/x86\_64/compute/rootimg

Loaded plugins: fastestmirror, langpacks

You need to give some command

Usage: yum [options] COMMAND

List of Commands:

check Check for problems in the rpmdb

check-update Check for available package updates

clean Remove cached data

deplist List a package's dependencies

distribution-synchronization Synchronize installed packages to the latest available versions

downgrade downgrade a package

erase Remove a package or packages from your system

fs Acts on the filesystem data of the host, mainly for removing docs/lanuages for minimal hosts.

fssnapshot Creates filesystem snapshots, or lists/deletes current snapshots.

groups Display, or use, the groups information

help Display a helpful usage message

history Display, or use, the transaction history

info Display details about a package or group of packages

install Install a package or packages on your system

langavailable Check available languages

langinfo List languages information

langinstall Install appropriate language packs for a language

langlist List installed languages

langremove Remove installed language packs for a language

list List a package or groups of packages

load-transaction load a saved transaction from filename

makecache Generate the metadata cache

provides Find what package provides the given value

reinstall reinstall a package

repo-pkgs Treat a repo. as a group of packages, so we can install/remove all of them

repolist Display the configured software repositories

search Search package details for the given string

shell Run an interactive yum shell

swap Simple way to swap packages, instead of using shell

update Update a package or packages on your system

update-minimal Works like upgrade, but goes to the 'newest' package match which fixes a problem that affects your system

updateinfo Acts on repository update information

upgrade Update packages taking obsoletes into account

version Display a version for the machine and/or available repos.

Options:

-h, --help show this help message and exit

-t, --tolerant be tolerant of errors

-C, --cacheonly run entirely from system cache, don't update cache

-c [config file], --config=[config file]

config file location

-R [minutes], --randomwait=[minutes]

maximum command wait time

-d [debug level], --debuglevel=[debug level]

debugging output level

--showduplicates show duplicates, in repos, in list/search commands

-e [error level], --errorlevel=[error level]

error output level

--rpmverbosity=[debug level name]

debugging output level for rpm

-q, --quiet quiet operation

-v, --verbose verbose operation

-y, --assumeyes answer yes for all questions

--assumeno answer no for all questions

--version show Yum version and exit

--installroot=[path] set install root

--enablerepo=[repo] enable one or more repositories (wildcards allowed)

--disablerepo=[repo] disable one or more repositories (wildcards allowed)

-x [package], --exclude=[package]

exclude package(s) by name or glob

--disableexcludes=[repo]

disable exclude from main, for a repo or for

everything

--disableincludes=[repo]

disable includepkgs for a repo or for everything

--obsoletes enable obsoletes processing during updates

--noplugins disable Yum plugins

--nogpgcheck disable gpg signature checking

--disableplugin=[plugin]

disable plugins by name

--enableplugin=[plugin]

enable plugins by name

--skip-broken skip packages with depsolving problems

--color=COLOR control whether color is used

--releasever=RELEASEVER

set value of $releasever in yum config and repo files

--downloadonly don't update, just download

--downloaddir=DLDIR specifies an alternate directory to store packages

--setopt=SETOPTS set arbitrary config and repo options

--bugfix Include bugfix relevant packages, in updates

--security Include security relevant packages, in updates

--advisory=ADVS, --advisories=ADVS

Include packages needed to fix the given advisory, in

updates

--bzs=BZS Include packages needed to fix the given BZ, in

updates

--cves=CVES Include packages needed to fix the given CVE, in

updates

--sec-severity=SEVS, --secseverity=SEVS

Include security relevant packages matching the

severity, in updates

Plugin Options:

[root@master ~]# yum --installroot=/install/netboot/centos7.9/x86\_64/compute/rootimg install openldap-clients

Loaded plugins: fastestmirror, langpacks

Determining fastest mirrors

\* base: centos.mirror.net.in

\* extras: centos.mirror.net.in

\* updates: centos.mirror.net.in

Resolving Dependencies

--> Running transaction check

---> Package openldap-clients.x86\_64 0:2.4.44-25.el7\_9 will be installed

--> Processing Dependency: openldap(x86-64) = 2.4.44-25.el7\_9 for package: openldap-clients-2.4.44-25.el7\_9.x86\_64

--> Running transaction check

---> Package openldap.x86\_64 0:2.4.44-22.el7 will be updated

---> Package openldap.x86\_64 0:2.4.44-25.el7\_9 will be an update

--> Finished Dependency Resolution

Dependencies Resolved

========================================================================

Package Arch Version Repository Size

========================================================================

Installing:

openldap-clients x86\_64 2.4.44-25.el7\_9 updates 191 k

Updating for dependencies:

openldap x86\_64 2.4.44-25.el7\_9 updates 356 k

Transaction Summary

========================================================================

Install 1 Package

Upgrade ( 1 Dependent package)

Total download size: 547 k

Is this ok [y/d/N]: y

Downloading packages:

No Presto metadata available for updates

warning: /install/netboot/centos7.9/x86\_64/compute/rootimg/var/cache/yum/x86\_64/7/updates/packages/openldap-clients-2.4.44-25.el7\_9.x86\_64.rpm: Header V3 RSA/SHA256 Signature, key ID f4a80eb5: NOKEY

Public key for openldap-clients-2.4.44-25.el7\_9.x86\_64.rpm is not installed

(1/2): openldap-clients-2.4.44-25.el7\_9.x86\_64.rpm | 191 kB 00:00

(2/2): openldap-2.4.44-25.el7\_9.x86\_64.rpm | 356 kB 00:00

------------------------------------------------------------------------

Total 1.8 MB/s | 547 kB 00:00

Retrieving key from file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7

Importing GPG key 0xF4A80EB5:

Userid : "CentOS-7 Key (CentOS 7 Official Signing Key) <security@centos.org>"

Fingerprint: 6341 ab27 53d7 8a78 a7c2 7bb1 24c6 a8a7 f4a8 0eb5

Package : centos-release-7-9.2009.0.el7.centos.x86\_64 (@centos7.9-x86\_64-0/$releasever)

From : /etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7

Is this ok [y/N]: y

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Updating : openldap-2.4.44-25.el7\_9.x86\_64 1/3

Installing : openldap-clients-2.4.44-25.el7\_9.x86\_64 2/3

Cleanup : openldap-2.4.44-22.el7.x86\_64 3/3

Verifying : openldap-2.4.44-25.el7\_9.x86\_64 1/3

Verifying : openldap-clients-2.4.44-25.el7\_9.x86\_64 2/3

Verifying : openldap-2.4.44-22.el7.x86\_64 3/3

Installed:

openldap-clients.x86\_64 0:2.4.44-25.el7\_9

Dependency Updated:

openldap.x86\_64 0:2.4.44-25.el7\_9

Complete!

[root@master ~]# export CHROOT=/install/netboot/centos7.9/x86\_64/compute/rootimg

[root@master ~]# chroot $CHROOT

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# authconfig --enableldap --enableldapauth --ldapserver=master --ldapbasedn="dc=hpcsa,dc=in" --enablemkhomedir --update

bash: authconfig: command not found

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# authconfig --enableldap --enableldapauth --ldapserver=master --ldapbasedn="dc=hpcsa,dc=in" --enablemkhomedir --update

bash: authconfig: command not found

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# exit

exit

[root@master ~]# yum --installroot=/install/netboot/centos7.9/x86\_64/compute/rootimg install authconfig

Loaded plugins: fastestmirror, langpacks

Loading mirror speeds from cached hostfile

\* base: centos.mirror.net.in

\* extras: centos.mirror.net.in

\* updates: centos.mirror.net.in

Resolving Dependencies

--> Running transaction check

---> Package authconfig.x86\_64 0:6.2.8-30.el7 will be installed

--> Processing Dependency: policycoreutils for package: authconfig-6.2.8-30.el7.x86\_64

--> Processing Dependency: newt-python for package: authconfig-6.2.8-30.el7.x86\_64

--> Running transaction check

---> Package newt-python.x86\_64 0:0.52.15-4.el7 will be installed

--> Processing Dependency: newt(x86-64) = 0.52.15-4.el7 for package: newt-python-0.52.15-4.el7.x86\_64

--> Processing Dependency: libnewt.so.0.52(NEWT\_0.52.6)(64bit) for package: newt-python-0.52.15-4.el7.x86\_64

--> Processing Dependency: libnewt.so.0.52(NEWT\_0.52.13)(64bit) for package: newt-python-0.52.15-4.el7.x86\_64

--> Processing Dependency: libnewt.so.0.52(NEWT\_0.52)(64bit) for package: newt-python-0.52.15-4.el7.x86\_64

--> Processing Dependency: libslang.so.2()(64bit) for package: newt-python-0.52.15-4.el7.x86\_64

--> Processing Dependency: libnewt.so.0.52()(64bit) for package: newt-python-0.52.15-4.el7.x86\_64

---> Package policycoreutils.x86\_64 0:2.5-34.el7 will be installed

--> Processing Dependency: libselinux-utils >= 2.5-14 for package: policycoreutils-2.5-34.el7.x86\_64

--> Running transaction check

---> Package libselinux-utils.x86\_64 0:2.5-15.el7 will be installed

---> Package newt.x86\_64 0:0.52.15-4.el7 will be installed

---> Package slang.x86\_64 0:2.2.4-11.el7 will be installed

--> Finished Dependency Resolution

Dependencies Resolved

========================================================================

Package Arch Version Repository

Size

========================================================================

Installing:

authconfig x86\_64 6.2.8-30.el7 base 424 k

Installing for dependencies:

libselinux-utils x86\_64 2.5-15.el7 base 151 k

newt x86\_64 0.52.15-4.el7 base 105 k

newt-python x86\_64 0.52.15-4.el7 base 54 k

policycoreutils x86\_64 2.5-34.el7 base 917 k

slang x86\_64 2.2.4-11.el7 base 512 k

Transaction Summary

========================================================================

Install 1 Package (+5 Dependent packages)

Total download size: 2.1 M

Installed size: 9.5 M

Is this ok [y/d/N]: y

Downloading packages:

(1/6): authconfig-6.2.8-30.el7.x86\_64.rpm | 424 kB 00:00

(2/6): libselinux-utils-2.5-15.el7.x86\_64.rpm | 151 kB 00:00

(3/6): newt-0.52.15-4.el7.x86\_64.rpm | 105 kB 00:00

(4/6): slang-2.2.4-11.el7.x86\_64.rpm | 512 kB 00:00

(5/6): newt-python-0.52.15-4.el7.x86\_64.rpm | 54 kB 00:00

(6/6): policycoreutils-2.5-34.el7.x86\_64.rpm | 917 kB 00:06

------------------------------------------------------------------------

Total 317 kB/s | 2.1 MB 00:06

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Installing : slang-2.2.4-11.el7.x86\_64 1/6

Installing : newt-0.52.15-4.el7.x86\_64 2/6

Installing : newt-python-0.52.15-4.el7.x86\_64 3/6

Installing : libselinux-utils-2.5-15.el7.x86\_64 4/6

Installing : policycoreutils-2.5-34.el7.x86\_64 5/6

Installing : authconfig-6.2.8-30.el7.x86\_64 6/6

Verifying : policycoreutils-2.5-34.el7.x86\_64 1/6

Verifying : newt-0.52.15-4.el7.x86\_64 2/6

Verifying : authconfig-6.2.8-30.el7.x86\_64 3/6

Verifying : libselinux-utils-2.5-15.el7.x86\_64 4/6

Verifying : newt-python-0.52.15-4.el7.x86\_64 5/6

Verifying : slang-2.2.4-11.el7.x86\_64 6/6

Installed:

authconfig.x86\_64 0:6.2.8-30.el7

Dependency Installed:

libselinux-utils.x86\_64 0:2.5-15.el7

newt.x86\_64 0:0.52.15-4.el7

newt-python.x86\_64 0:0.52.15-4.el7

policycoreutils.x86\_64 0:2.5-34.el7

slang.x86\_64 0:2.2.4-11.el7

Complete!

[root@master ~]# chroot $CHROOT

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# authconfig --enableldap --enableldapauth --ldapserver=master --ldapbasedn="dc=hpcsa,dc=in" --enablemkhomedir --update

authconfig: Authentication module /usr/lib64/security/pam\_ldap.so is missing. Authentication process might not work correctly.

getsebool: SELinux is disabled

bash: \_\_vte\_prompt\_command: command not found

[root@master /]#

bash: \_\_vte\_prompt\_command: command not found

[root@master /]#

bash: \_\_vte\_prompt\_command: command not found

[root@master /]#

bash: \_\_vte\_prompt\_command: command not found

[root@master /]#

bash: \_\_vte\_prompt\_command: command not found

[root@master /]#

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# authconfig --enableldap --enableldapauth --ldapserver=master --ldapbasedn="dc=hpcsa,dc=in" --enablemkhomedir --update

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# systemctl status nslcd

Failed to get D-Bus connection: Operation not permitted

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# systemctl enable nslcd

Operation failed: No such file or directory

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# ldapsearch –x

ldap\_sasl\_interactive\_bind\_s: Unknown authentication method (-6)

additional info: SASL(-4): no mechanism available: No worthy mechs found

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# ldapsearch –x

ldap\_sasl\_interactive\_bind\_s: Unknown authentication method (-6)

additional info: SASL(-4): no mechanism available: No worthy mechs found

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# exit

exit

[root@master ~]#

[root@master ~]#

[root@master ~]# systemctl status nslcd

Unit nslcd.service could not be found.

[root@master ~]# ldapsearch –x

SASL/GSS-SPNEGO authentication started

ldap\_sasl\_interactive\_bind\_s: Local error (-2)

additional info: SASL(-1): generic failure: GSSAPI Error: Unspecified GSS failure. Minor code may provide more information (SPNEGO cannot find mechanisms to negotiate)

[root@master ~]# ldapsearch –X

SASL/GSS-SPNEGO authentication started

ldap\_sasl\_interactive\_bind\_s: Local error (-2)

additional info: SASL(-1): generic failure: GSSAPI Error: Unspecified GSS failure. Minor code may provide more information (SPNEGO cannot find mechanisms to negotiate)

[root@master ~]# chroot $CHROOT

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# ldapsearch –x

ldap\_sasl\_interactive\_bind\_s: Unknown authentication method (-6)

additional info: SASL(-4): no mechanism available: No worthy mechs found

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# getent passwd

root:x:0:0:root:/root:/bin/bash

bin:x:1:1:bin:/bin:/sbin/nologin

daemon:x:2:2:daemon:/sbin:/sbin/nologin

adm:x:3:4:adm:/var/adm:/sbin/nologin

lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin

sync:x:5:0:sync:/sbin:/bin/sync

shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown

halt:x:7:0:halt:/sbin:/sbin/halt

mail:x:8:12:mail:/var/spool/mail:/sbin/nologin

operator:x:11:0:operator:/root:/sbin/nologin

games:x:12:100:games:/usr/games:/sbin/nologin

ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin

nobody:x:99:99:Nobody:/:/sbin/nologin

systemd-network:x:192:192:systemd Network Management:/:/sbin/nologin

dbus:x:81:81:System message bus:/:/sbin/nologin

ntp:x:38:38::/etc/ntp:/sbin/nologin

rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin

rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin

nfsnobody:x:65534:65534:Anonymous NFS User:/var/lib/nfs:/sbin/nologin

sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# getent passwd

root:x:0:0:root:/root:/bin/bash

bin:x:1:1:bin:/bin:/sbin/nologin

daemon:x:2:2:daemon:/sbin:/sbin/nologin

adm:x:3:4:adm:/var/adm:/sbin/nologin

lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin

sync:x:5:0:sync:/sbin:/bin/sync

shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown

halt:x:7:0:halt:/sbin:/sbin/halt

mail:x:8:12:mail:/var/spool/mail:/sbin/nologin

operator:x:11:0:operator:/root:/sbin/nologin

games:x:12:100:games:/usr/games:/sbin/nologin

ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin

nobody:x:99:99:Nobody:/:/sbin/nologin

systemd-network:x:192:192:systemd Network Management:/:/sbin/nologin

dbus:x:81:81:System message bus:/:/sbin/nologin

ntp:x:38:38::/etc/ntp:/sbin/nologin

rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin

rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin

nfsnobody:x:65534:65534:Anonymous NFS User:/var/lib/nfs:/sbin/nologin

sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# ldapsearch –x

ldap\_sasl\_interactive\_bind\_s: Unknown authentication method (-6)

additional info: SASL(-4): no mechanism available: No worthy mechs found

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# exit

exit

[root@master ~]# ldapsearch –x

SASL/GSS-SPNEGO authentication started

ldap\_sasl\_interactive\_bind\_s: Local error (-2)

additional info: SASL(-1): generic failure: GSSAPI Error: Unspecified GSS failure. Minor code may provide more information (SPNEGO cannot find mechanisms to negotiate)

[root@master ~]# hostname

master

[root@master ~]# echo $CHROOT

/install/netboot/centos7.9/x86\_64/compute/rootimg

[root@master ~]# cat ldapuser.ldif

dn: uid=hpcsa1,ou=People,dc=hpcsa,dc=in

objectClass: inetOrgPerson

objectClass: posixAccount

objectClass: shadowAccount

cn: hpcsa1

sn: Linux

userPassword: {SSHA}HlLk9Qviw3rfsF9UNGOGaNf++0XL/Xun

loginShell: /bin/bash

uidNumber: 1003

gidNumber: 1003

homeDirectory: /home/hpcsa1

dn: cn=hpcsa1,ou=Group,dc=hpcsa,dc=in

objectClass: posixGroup

cn: hpcsa1

gidNumber: 1003

memberUid: hpcsa1

[root@master ~]# ldapsearch -x -h master.hpcsa.in cn=hpcsa1

# extended LDIF

#

# LDAPv3

# base <> (default) with scope subtree

# filter: cn=hpcsa1

# requesting: ALL

#

# search result

search: 2

result: 32 No such object

# numResponses: 1

[root@master ~]# ldapsearch –x

SASL/GSS-SPNEGO authentication started

ldap\_sasl\_interactive\_bind\_s: Local error (-2)

additional info: SASL(-1): generic failure: GSSAPI Error: Unspecified GSS failure. Minor code may provide more information (SPNEGO cannot find mechanisms to negotiate)

[root@master ~]# echo $CHROOT

/install/netboot/centos7.9/x86\_64/compute/rootimg

[root@master ~]# chroot $CHROOT

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# ldapsearch -x -h master.hpcsa.in cn=hpcsa1

# extended LDIF

#

# LDAPv3

# base <dc=hpcsa,dc=in> (default) with scope subtree

# filter: cn=hpcsa1

# requesting: ALL

#

# hpcsa1, People, hpcsa.in

dn: uid=hpcsa1,ou=People,dc=hpcsa,dc=in

objectClass: inetOrgPerson

objectClass: posixAccount

objectClass: shadowAccount

cn: hpcsa1

sn: Linux

loginShell: /bin/bash

uidNumber: 1003

gidNumber: 1003

homeDirectory: /home/hpcsa1

uid: hpcsa1

# hpcsa1, Group, hpcsa.in

dn: cn=hpcsa1,ou=Group,dc=hpcsa,dc=in

objectClass: posixGroup

cn: hpcsa1

gidNumber: 1003

memberUid: hpcsa1

# search result

search: 2

result: 0 Success

# numResponses: 3

# numEntries: 2

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# ldapsearch –x

ldap\_sasl\_interactive\_bind\_s: Unknown authentication method (-6)

additional info: SASL(-4): no mechanism available: No worthy mechs found

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# exit

exit

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]# rsync /etc/hosts root@node1:/etc/hosts

Warning: Permanently added 'node1,192.168.130.155' (ECDSA) to the list of known hosts.

[root@master ~]# chroot $CHROOT

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# ldapsearch –x

ldap\_sasl\_interactive\_bind\_s: Unknown authentication method (-6)

additional info: SASL(-4): no mechanism available: No worthy mechs found

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# cat /etc/nslcd.conf

cat: /etc/nslcd.conf: No such file or directory

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# yum -y install openldap-clients nss-pam-ldapd

bash: yum: command not found

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# exit

exit

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]# yum --installroot=/install/netboot/centos7.9/x86\_64/compute/rootimg install openldap-clients nss-pam-ldapd

Loaded plugins: fastestmirror, langpacks

Loading mirror speeds from cached hostfile

\* base: centos.mirror.net.in

\* extras: centos.mirror.net.in

\* updates: centos.mirror.net.in

Package openldap-clients-2.4.44-25.el7\_9.x86\_64 already installed and latest version

Resolving Dependencies

--> Running transaction check

---> Package nss-pam-ldapd.x86\_64 0:0.8.13-25.el7 will be installed

--> Processing Dependency: nscd for package: nss-pam-ldapd-0.8.13-25.el7.x86\_64

--> Running transaction check

---> Package nscd.x86\_64 0:2.17-326.el7\_9 will be installed

--> Processing Dependency: glibc = 2.17-326.el7\_9 for package: nscd-2.17-326.el7\_9.x86\_64

--> Running transaction check

---> Package glibc.x86\_64 0:2.17-317.el7 will be updated

--> Processing Dependency: glibc = 2.17-317.el7 for package: glibc-common-2.17-317.el7.x86\_64

---> Package glibc.x86\_64 0:2.17-326.el7\_9 will be an update

--> Running transaction check

---> Package glibc-common.x86\_64 0:2.17-317.el7 will be updated

---> Package glibc-common.x86\_64 0:2.17-326.el7\_9 will be an update

--> Finished Dependency Resolution

Dependencies Resolved

========================================================================

Package Arch Version Repository Size

========================================================================

Installing:

nss-pam-ldapd x86\_64 0.8.13-25.el7 base 164 k

Installing for dependencies:

nscd x86\_64 2.17-326.el7\_9 updates 289 k

Updating for dependencies:

glibc x86\_64 2.17-326.el7\_9 updates 3.6 M

glibc-common x86\_64 2.17-326.el7\_9 updates 12 M

Transaction Summary

========================================================================

Install 1 Package (+1 Dependent package)

Upgrade ( 2 Dependent packages)

Total download size: 16 M

Is this ok [y/d/N]: y

Downloading packages:

No Presto metadata available for updates

(1/4): nss-pam-ldapd-0.8.13-25.el7.x86\_64.rpm | 164 kB 00:00

(2/4): nscd-2.17-326.el7\_9.x86\_64.rpm | 289 kB 00:00

(3/4): glibc-2.17-326.el7\_9.x86\_64.rpm | 3.6 MB 00:00

(4/4): glibc-common-2.17-326.el7\_9.x86\_64.rpm | 12 MB 00:02

------------------------------------------------------------------------

Total 7.4 MB/s | 16 MB 00:02

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Updating : glibc-2.17-326.el7\_9.x86\_64 1/6

Updating : glibc-common-2.17-326.el7\_9.x86\_64 2/6

Installing : nscd-2.17-326.el7\_9.x86\_64 3/6

Installing : nss-pam-ldapd-0.8.13-25.el7.x86\_64 4/6

Cleanup : glibc-2.17-317.el7.x86\_64 5/6

Cleanup : glibc-common-2.17-317.el7.x86\_64 6/6

Verifying : glibc-common-2.17-326.el7\_9.x86\_64 1/6

Verifying : glibc-2.17-326.el7\_9.x86\_64 2/6

Verifying : nss-pam-ldapd-0.8.13-25.el7.x86\_64 3/6

Verifying : nscd-2.17-326.el7\_9.x86\_64 4/6

Verifying : glibc-2.17-317.el7.x86\_64 5/6

Verifying : glibc-common-2.17-317.el7.x86\_64 6/6

Installed:

nss-pam-ldapd.x86\_64 0:0.8.13-25.el7

Dependency Installed:

nscd.x86\_64 0:2.17-326.el7\_9

Dependency Updated:

glibc.x86\_64 0:2.17-326.el7\_9 glibc-common.x86\_64 0:2.17-326.el7\_9

Complete!

[root@master ~]# export CHROOT=/install/netboot/centos7.9/x86\_64/compute/rootimg

[root@master ~]# chroot $CHROOT

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# authconfig --enableldap --enableldapauth --ldapserver=master --ldapbasedn="dc=hpcsa,dc=in" --enablemkhomedir --update

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# systemctl restart nslcd

Failed to get D-Bus connection: Operation not permitted

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# systemctl enable nslcd

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# systemctl status nslcd

Failed to get D-Bus connection: Operation not permitted

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# ldapsearch –x

ldap\_sasl\_interactive\_bind\_s: Unknown authentication method (-6)

additional info: SASL(-4): no mechanism available: No worthy mechs found

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# ldapsearch -x -h master.hpcsa.in cn=hpcsa1

# extended LDIF

#

# LDAPv3

# base <dc=hpcsa,dc=in> (default) with scope subtree

# filter: cn=hpcsa1

# requesting: ALL

#

# hpcsa1, People, hpcsa.in

dn: uid=hpcsa1,ou=People,dc=hpcsa,dc=in

objectClass: inetOrgPerson

objectClass: posixAccount

objectClass: shadowAccount

cn: hpcsa1

sn: Linux

loginShell: /bin/bash

uidNumber: 1003

gidNumber: 1003

homeDirectory: /home/hpcsa1

uid: hpcsa1

# hpcsa1, Group, hpcsa.in

dn: cn=hpcsa1,ou=Group,dc=hpcsa,dc=in

objectClass: posixGroup

cn: hpcsa1

gidNumber: 1003

memberUid: hpcsa1

# search result

search: 2

result: 0 Success

# numResponses: 3

# numEntries: 2

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# exit

exit

[root@master ~]# ssj root@node1

bash: ssj: command not found...

[root@master ~]# ssh root@node1

Last login: Thu Aug 24 19:20:13 2023

[root@node1 ~]# ls

[root@node1 ~]#

[root@node1 ~]#

[root@node1 ~]#

[root@node1 ~]#

[root@node1 ~]#

[root@node1 ~]# ip a

1: lo: <LOOPBACK,UP,LOWER\_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000

link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00

inet 127.0.0.1/8 scope host lo

valid\_lft forever preferred\_lft forever

inet6 ::1/128 scope host

valid\_lft forever preferred\_lft forever

2: ens33: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 1500 qdisc pfifo\_fast state UP group default qlen 1000

link/ether 00:0c:29:88:71:c4 brd ff:ff:ff:ff:ff:ff

inet 192.168.130.155/24 brd 192.168.130.255 scope global dynamic ens33

valid\_lft 34797sec preferred\_lft 34797sec

inet6 fe80::20c:29ff:fe88:71c4/64 scope link

valid\_lft forever preferred\_lft forever

[root@node1 ~]# getent passwd

root:x:0:0:root:/root:/bin/bash

bin:x:1:1:bin:/bin:/sbin/nologin

daemon:x:2:2:daemon:/sbin:/sbin/nologin

adm:x:3:4:adm:/var/adm:/sbin/nologin

lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin

sync:x:5:0:sync:/sbin:/bin/sync

shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown

halt:x:7:0:halt:/sbin:/sbin/halt

mail:x:8:12:mail:/var/spool/mail:/sbin/nologin

operator:x:11:0:operator:/root:/sbin/nologin

games:x:12:100:games:/usr/games:/sbin/nologin

ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin

nobody:x:99:99:Nobody:/:/sbin/nologin

systemd-network:x:192:192:systemd Network Management:/:/sbin/nologin

dbus:x:81:81:System message bus:/:/sbin/nologin

ntp:x:38:38::/etc/ntp:/sbin/nologin

rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin

rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin

nfsnobody:x:65534:65534:Anonymous NFS User:/var/lib/nfs:/sbin/nologin

sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin

[root@node1 ~]# authconfig --enableldap --enableldapauth --ldapserver=master --ldapbasedn="dc=hpcsa,dc=in" --enablemkhomedir –update

-bash: authconfig: command not found

[root@node1 ~]# getent passwd

root:x:0:0:root:/root:/bin/bash

bin:x:1:1:bin:/bin:/sbin/nologin

daemon:x:2:2:daemon:/sbin:/sbin/nologin

adm:x:3:4:adm:/var/adm:/sbin/nologin

lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin

sync:x:5:0:sync:/sbin:/bin/sync

shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown

halt:x:7:0:halt:/sbin:/sbin/halt

mail:x:8:12:mail:/var/spool/mail:/sbin/nologin

operator:x:11:0:operator:/root:/sbin/nologin

games:x:12:100:games:/usr/games:/sbin/nologin

ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin

nobody:x:99:99:Nobody:/:/sbin/nologin

systemd-network:x:192:192:systemd Network Management:/:/sbin/nologin

dbus:x:81:81:System message bus:/:/sbin/nologin

ntp:x:38:38::/etc/ntp:/sbin/nologin

rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin

rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin

nfsnobody:x:65534:65534:Anonymous NFS User:/var/lib/nfs:/sbin/nologin

sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin

[root@node1 ~]# yum -y install openldap-clients nss-pam-ldapd

-bash: yum: command not found

[root@node1 ~]# exit

logout

Connection to node1 closed.

[root@master ~]# yum --installroot=/install/netboot/centos7.9/x86\_64/compute/rootimg install yum

Loaded plugins: fastestmirror, langpacks

Loading mirror speeds from cached hostfile

\* base: centos.mirror.net.in

\* extras: centos.mirror.net.in

\* updates: centos.mirror.net.in

Resolving Dependencies

--> Running transaction check

---> Package yum.noarch 0:3.4.3-168.el7.centos will be installed

--> Processing Dependency: yum-metadata-parser >= 1.1.0 for package: yum-3.4.3-168.el7.centos.noarch

--> Processing Dependency: python-urlgrabber >= 3.10-8 for package: yum-3.4.3-168.el7.centos.noarch

--> Processing Dependency: yum-plugin-fastestmirror for package: yum-3.4.3-168.el7.centos.noarch

--> Processing Dependency: rpm-python for package: yum-3.4.3-168.el7.centos.noarch

--> Processing Dependency: pyxattr for package: yum-3.4.3-168.el7.centos.noarch

--> Processing Dependency: python-iniparse for package: yum-3.4.3-168.el7.centos.noarch

--> Processing Dependency: pyliblzma for package: yum-3.4.3-168.el7.centos.noarch

--> Processing Dependency: pygpgme for package: yum-3.4.3-168.el7.centos.noarch

--> Running transaction check

---> Package pygpgme.x86\_64 0:0.3-9.el7 will be installed

--> Processing Dependency: libgpgme.so.11(GPGME\_1.1)(64bit) for package: pygpgme-0.3-9.el7.x86\_64

--> Processing Dependency: libgpgme.so.11(GPGME\_1.0)(64bit) for package: pygpgme-0.3-9.el7.x86\_64

--> Processing Dependency: libgpgme.so.11()(64bit) for package: pygpgme-0.3-9.el7.x86\_64

---> Package pyliblzma.x86\_64 0:0.5.3-11.el7 will be installed

---> Package python-iniparse.noarch 0:0.4-9.el7 will be installed

---> Package python-urlgrabber.noarch 0:3.10-10.el7 will be installed

--> Processing Dependency: python-pycurl for package: python-urlgrabber-3.10-10.el7.noarch

---> Package pyxattr.x86\_64 0:0.5.1-5.el7 will be installed

---> Package rpm-python.x86\_64 0:4.11.3-48.el7\_9 will be installed

--> Processing Dependency: rpm = 4.11.3-48.el7\_9 for package: rpm-python-4.11.3-48.el7\_9.x86\_64

--> Processing Dependency: librpmsign.so.1()(64bit) for package: rpm-python-4.11.3-48.el7\_9.x86\_64

--> Processing Dependency: librpmbuild.so.3()(64bit) for package: rpm-python-4.11.3-48.el7\_9.x86\_64

--> Processing Dependency: libmagic.so.1()(64bit) for package: rpm-python-4.11.3-48.el7\_9.x86\_64

---> Package yum-metadata-parser.x86\_64 0:1.1.4-10.el7 will be installed

---> Package yum-plugin-fastestmirror.noarch 0:1.1.31-54.el7\_8 will be installed

--> Running transaction check

---> Package file-libs.x86\_64 0:5.11-37.el7 will be installed

---> Package gpgme.x86\_64 0:1.3.2-5.el7 will be installed

--> Processing Dependency: libassuan.so.0(LIBASSUAN\_1.0)(64bit) for package: gpgme-1.3.2-5.el7.x86\_64

--> Processing Dependency: gnupg2 for package: gpgme-1.3.2-5.el7.x86\_64

--> Processing Dependency: libassuan.so.0()(64bit) for package: gpgme-1.3.2-5.el7.x86\_64

---> Package python-pycurl.x86\_64 0:7.19.0-19.el7 will be installed

---> Package rpm.x86\_64 0:4.11.3-45.el7 will be updated

--> Processing Dependency: rpm = 4.11.3-45.el7 for package: rpm-libs-4.11.3-45.el7.x86\_64

---> Package rpm.x86\_64 0:4.11.3-48.el7\_9 will be an update

---> Package rpm-build-libs.x86\_64 0:4.11.3-48.el7\_9 will be installed

--> Running transaction check

---> Package gnupg2.x86\_64 0:2.0.22-5.el7\_5 will be installed

--> Processing Dependency: pinentry for package: gnupg2-2.0.22-5.el7\_5.x86\_64

--> Processing Dependency: libpth.so.20()(64bit) for package: gnupg2-2.0.22-5.el7\_5.x86\_64

---> Package libassuan.x86\_64 0:2.1.0-3.el7 will be installed

---> Package rpm-libs.x86\_64 0:4.11.3-45.el7 will be updated

---> Package rpm-libs.x86\_64 0:4.11.3-48.el7\_9 will be an update

--> Running transaction check

---> Package pinentry.x86\_64 0:0.8.1-17.el7 will be installed

---> Package pth.x86\_64 0:2.0.7-23.el7 will be installed

--> Finished Dependency Resolution

Dependencies Resolved

========================================================================

Package Arch Version Repository

Size

========================================================================

Installing:

yum noarch 3.4.3-168.el7.centos base 1.2 M

Installing for dependencies:

file-libs x86\_64 5.11-37.el7 base 340 k

gnupg2 x86\_64 2.0.22-5.el7\_5 base 1.5 M

gpgme x86\_64 1.3.2-5.el7 base 146 k

libassuan x86\_64 2.1.0-3.el7 base 63 k

pinentry x86\_64 0.8.1-17.el7 base 73 k

pth x86\_64 2.0.7-23.el7 base 89 k

pygpgme x86\_64 0.3-9.el7 base 63 k

pyliblzma x86\_64 0.5.3-11.el7 base 47 k

python-iniparse noarch 0.4-9.el7 base 39 k

python-pycurl x86\_64 7.19.0-19.el7 base 80 k

python-urlgrabber noarch 3.10-10.el7 base 108 k

pyxattr x86\_64 0.5.1-5.el7 base 28 k

rpm-build-libs x86\_64 4.11.3-48.el7\_9 updates 108 k

rpm-python x86\_64 4.11.3-48.el7\_9 updates 84 k

yum-metadata-parser x86\_64 1.1.4-10.el7 base 28 k

yum-plugin-fastestmirror noarch 1.1.31-54.el7\_8 base 34 k

Updating for dependencies:

rpm x86\_64 4.11.3-48.el7\_9 updates 1.2 M

rpm-libs x86\_64 4.11.3-48.el7\_9 updates 279 k

Transaction Summary

========================================================================

Install 1 Package (+16 Dependent packages)

Upgrade ( 2 Dependent packages)

Total download size: 5.5 M

Is this ok [y/d/N]: y

Downloading packages:

No Presto metadata available for updates

(1/19): gpgme-1.3.2-5.el7.x86\_64.rpm | 146 kB 00:00

(2/19): file-libs-5.11-37.el7.x86\_64.rpm | 340 kB 00:00

(3/19): pinentry-0.8.1-17.el7.x86\_64.rpm | 73 kB 00:00

(4/19): pth-2.0.7-23.el7.x86\_64.rpm | 89 kB 00:00

(5/19): pygpgme-0.3-9.el7.x86\_64.rpm | 63 kB 00:00

(6/19): libassuan-2.1.0-3.el7.x86\_64.rpm | 63 kB 00:00

(7/19): pyliblzma-0.5.3-11.el7.x86\_64.rpm | 47 kB 00:00

(8/19): python-iniparse-0.4-9.el7.noarch.rpm | 39 kB 00:00

(9/19): python-pycurl-7.19.0-19.el7.x86\_64.rpm | 80 kB 00:00

(10/19): pyxattr-0.5.1-5.el7.x86\_64.rpm | 28 kB 00:00

(11/19): python-urlgrabber-3.10-10.el7.noarch.rpm | 108 kB 00:00

(12/19): rpm-python-4.11.3-48.el7\_9.x86\_64.rpm | 84 kB 00:00

(13/19): rpm-build-libs-4.11.3-48.el7\_9.x86\_64.rpm | 108 kB 00:00

(14/19): yum-metadata-parser-1.1.4-10.el7.x86\_64.r | 28 kB 00:00

(15/19): yum-plugin-fastestmirror-1.1.31-54.el7\_8. | 34 kB 00:00

(16/19): rpm-libs-4.11.3-48.el7\_9.x86\_64.rpm | 279 kB 00:00

(17/19): rpm-4.11.3-48.el7\_9.x86\_64.rpm | 1.2 MB 00:01

(18/19): yum-3.4.3-168.el7.centos.noarch.rpm | 1.2 MB 00:01

(19/19): gnupg2-2.0.22-5.el7\_5.x86\_64.rpm | 1.5 MB 00:03

------------------------------------------------------------------------

Total 1.7 MB/s | 5.5 MB 00:03

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Updating : rpm-libs-4.11.3-48.el7\_9.x86\_64 1/21

Updating : rpm-4.11.3-48.el7\_9.x86\_64 2/21

Installing : libassuan-2.1.0-3.el7.x86\_64 3/21

Installing : file-libs-5.11-37.el7.x86\_64 4/21

Installing : yum-metadata-parser-1.1.4-10.el7.x86\_64 5/21

Installing : pth-2.0.7-23.el7.x86\_64 6/21

Installing : pyxattr-0.5.1-5.el7.x86\_64 7/21

Installing : python-iniparse-0.4-9.el7.noarch 8/21

Installing : python-pycurl-7.19.0-19.el7.x86\_64 9/21

Installing : python-urlgrabber-3.10-10.el7.noarch 10/21

Installing : pyliblzma-0.5.3-11.el7.x86\_64 11/21

Installing : pinentry-0.8.1-17.el7.x86\_64 12/21

Installing : gnupg2-2.0.22-5.el7\_5.x86\_64 13/21

Installing : gpgme-1.3.2-5.el7.x86\_64 14/21

Installing : pygpgme-0.3-9.el7.x86\_64 15/21

Installing : rpm-build-libs-4.11.3-48.el7\_9.x86\_64 16/21

Installing : rpm-python-4.11.3-48.el7\_9.x86\_64 17/21

Installing : yum-plugin-fastestmirror-1.1.31-54.el7\_8.noarch 18/21

Installing : yum-3.4.3-168.el7.centos.noarch 19/21

Cleanup : rpm-libs-4.11.3-45.el7.x86\_64 20/21

Cleanup : rpm-4.11.3-45.el7.x86\_64 21/21

Verifying : pinentry-0.8.1-17.el7.x86\_64 1/21

Verifying : pygpgme-0.3-9.el7.x86\_64 2/21

Verifying : rpm-python-4.11.3-48.el7\_9.x86\_64 3/21

Verifying : yum-3.4.3-168.el7.centos.noarch 4/21

Verifying : gnupg2-2.0.22-5.el7\_5.x86\_64 5/21

Verifying : gpgme-1.3.2-5.el7.x86\_64 6/21

Verifying : file-libs-5.11-37.el7.x86\_64 7/21

Verifying : rpm-4.11.3-48.el7\_9.x86\_64 8/21

Verifying : rpm-build-libs-4.11.3-48.el7\_9.x86\_64 9/21

Verifying : libassuan-2.1.0-3.el7.x86\_64 10/21

Verifying : pyliblzma-0.5.3-11.el7.x86\_64 11/21

Verifying : python-pycurl-7.19.0-19.el7.x86\_64 12/21

Verifying : rpm-libs-4.11.3-48.el7\_9.x86\_64 13/21

Verifying : python-urlgrabber-3.10-10.el7.noarch 14/21

Verifying : python-iniparse-0.4-9.el7.noarch 15/21

Verifying : yum-plugin-fastestmirror-1.1.31-54.el7\_8.noarch 16/21

Verifying : pyxattr-0.5.1-5.el7.x86\_64 17/21

Verifying : pth-2.0.7-23.el7.x86\_64 18/21

Verifying : yum-metadata-parser-1.1.4-10.el7.x86\_64 19/21

Verifying : rpm-libs-4.11.3-45.el7.x86\_64 20/21

Verifying : rpm-4.11.3-45.el7.x86\_64 21/21

Installed:

yum.noarch 0:3.4.3-168.el7.centos

Dependency Installed:

file-libs.x86\_64 0:5.11-37.el7

gnupg2.x86\_64 0:2.0.22-5.el7\_5

gpgme.x86\_64 0:1.3.2-5.el7

libassuan.x86\_64 0:2.1.0-3.el7

pinentry.x86\_64 0:0.8.1-17.el7

pth.x86\_64 0:2.0.7-23.el7

pygpgme.x86\_64 0:0.3-9.el7

pyliblzma.x86\_64 0:0.5.3-11.el7

python-iniparse.noarch 0:0.4-9.el7

python-pycurl.x86\_64 0:7.19.0-19.el7

python-urlgrabber.noarch 0:3.10-10.el7

pyxattr.x86\_64 0:0.5.1-5.el7

rpm-build-libs.x86\_64 0:4.11.3-48.el7\_9

rpm-python.x86\_64 0:4.11.3-48.el7\_9

yum-metadata-parser.x86\_64 0:1.1.4-10.el7

yum-plugin-fastestmirror.noarch 0:1.1.31-54.el7\_8

Dependency Updated:

rpm.x86\_64 0:4.11.3-48.el7\_9 rpm-libs.x86\_64 0:4.11.3-48.el7\_9

Complete!

[root@master ~]# chroot $CHROOT

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# exit

exit

[root@master ~]# ssh root@node1

Last login: Thu Aug 24 21:09:17 2023 from master

[root@node1 ~]#

[root@node1 ~]#

[root@node1 ~]#

[root@node1 ~]#

[root@node1 ~]# yum -y install openldap-clients nss-pam-ldapd

-bash: yum: command not found

[root@node1 ~]# exit

logout

Connection to node1 closed.

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]# packimage centos7.9-x86\_64-netboot-compute

Packing contents of /install/netboot/centos7.9/x86\_64/compute/rootimg

archive method:cpio

compress method:gzip

[root@master ~]# chroot $CHROOT

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# ldapsearch –x

ldap\_sasl\_interactive\_bind\_s: Unknown authentication method (-6)

additional info: SASL(-4): no mechanism available: No worthy mechs found

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# cat /etc/nslcd.conf

# This is the configuration file for the LDAP nameservice

# switch library's nslcd daemon. It configures the mapping

# between NSS names (see /etc/nsswitch.conf) and LDAP

# information in the directory.

# See the manual page nslcd.conf(5) for more information.

# The user and group nslcd should run as.

uid nslcd

gid ldap

# The uri pointing to the LDAP server to use for name lookups.

# Multiple entries may be specified. The address that is used

# here should be resolvable without using LDAP (obviously).

#uri ldap://127.0.0.1/

#uri ldaps://127.0.0.1/

#uri ldapi://%2fvar%2frun%2fldapi\_sock/

# Note: %2f encodes the '/' used as directory separator

uri ldap://master/

# The LDAP version to use (defaults to 3

# if supported by client library)

#ldap\_version 3

# The distinguished name of the search base.

base dc=hpcsa,dc=in

# The distinguished name to bind to the server with.

# Optional: default is to bind anonymously.

#binddn cn=proxyuser,dc=example,dc=com

# The credentials to bind with.

# Optional: default is no credentials.

# Note that if you set a bindpw you should check the permissions of this file.

#bindpw secret

# The distinguished name to perform password modifications by root by.

#rootpwmoddn cn=admin,dc=example,dc=com

# The default search scope.

#scope sub

#scope one

#scope base

# Customize certain database lookups.

#base group ou=Groups,dc=example,dc=com

#base passwd ou=People,dc=example,dc=com

#base shadow ou=People,dc=example,dc=com

#scope group onelevel

#scope hosts sub

# Bind/connect timelimit.

#bind\_timelimit 30

# Search timelimit.

#timelimit 30

# Idle timelimit. nslcd will close connections if the

# server has not been contacted for the number of seconds.

#idle\_timelimit 3600

# Use StartTLS without verifying the server certificate.

#ssl start\_tls

#tls\_reqcert never

# CA certificates for server certificate verification

#tls\_cacertdir /etc/ssl/certs

#tls\_cacertfile /etc/ssl/ca.cert

# Seed the PRNG if /dev/urandom is not provided

#tls\_randfile /var/run/egd-pool

# SSL cipher suite

# See man ciphers for syntax

#tls\_ciphers TLSv1

# Client certificate and key

# Use these, if your server requires client authentication.

#tls\_cert

#tls\_key

# Mappings for Services for UNIX 3.5

#filter passwd (objectClass=User)

#map passwd uid msSFU30Name

#map passwd userPassword msSFU30Password

#map passwd homeDirectory msSFU30HomeDirectory

#map passwd homeDirectory msSFUHomeDirectory

#filter shadow (objectClass=User)

#map shadow uid msSFU30Name

#map shadow userPassword msSFU30Password

#filter group (objectClass=Group)

#map group member msSFU30PosixMember

# Mappings for Services for UNIX 2.0

#filter passwd (objectClass=User)

#map passwd uid msSFUName

#map passwd userPassword msSFUPassword

#map passwd homeDirectory msSFUHomeDirectory

#map passwd gecos msSFUName

#filter shadow (objectClass=User)

#map shadow uid msSFUName

#map shadow userPassword msSFUPassword

#map shadow shadowLastChange pwdLastSet

#filter group (objectClass=Group)

#map group member posixMember

# Mappings for Active Directory

#pagesize 1000

#referrals off

#idle\_timelimit 800

#filter passwd (&(objectClass=user)(!(objectClass=computer))(uidNumber=\*)(unixHomeDirectory=\*))

#map passwd uid sAMAccountName

#map passwd homeDirectory unixHomeDirectory

#map passwd gecos displayName

#filter shadow (&(objectClass=user)(!(objectClass=computer))(uidNumber=\*)(unixHomeDirectory=\*))

#map shadow uid sAMAccountName

#map shadow shadowLastChange pwdLastSet

#filter group (objectClass=group)

# Alternative mappings for Active Directory

# (replace the SIDs in the objectSid mappings with the value for your domain)

#pagesize 1000

#referrals off

#idle\_timelimit 800

#filter passwd (&(objectClass=user)(objectClass=person)(!(objectClass=computer)))

#map passwd uid cn

#map passwd uidNumber objectSid:S-1-5-21-3623811015-3361044348-30300820

#map passwd gidNumber objectSid:S-1-5-21-3623811015-3361044348-30300820

#map passwd homeDirectory "/home/$cn"

#map passwd gecos displayName

#map passwd loginShell "/bin/bash"

#filter group (|(objectClass=group)(objectClass=person))

#map group gidNumber objectSid:S-1-5-21-3623811015-3361044348-30300820

# Mappings for AIX SecureWay

#filter passwd (objectClass=aixAccount)

#map passwd uid userName

#map passwd userPassword passwordChar

#map passwd uidNumber uid

#map passwd gidNumber gid

#filter group (objectClass=aixAccessGroup)

#map group cn groupName

#map group gidNumber gid

# This comment prevents repeated auto-migration of settings.

ssl no

tls\_cacertdir /etc/openldap/cacerts

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# getent passwd

root:x:0:0:root:/root:/bin/bash

bin:x:1:1:bin:/bin:/sbin/nologin

daemon:x:2:2:daemon:/sbin:/sbin/nologin

adm:x:3:4:adm:/var/adm:/sbin/nologin

lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin

sync:x:5:0:sync:/sbin:/bin/sync

shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown

halt:x:7:0:halt:/sbin:/sbin/halt

mail:x:8:12:mail:/var/spool/mail:/sbin/nologin

operator:x:11:0:operator:/root:/sbin/nologin

games:x:12:100:games:/usr/games:/sbin/nologin

ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin

nobody:x:99:99:Nobody:/:/sbin/nologin

systemd-network:x:192:192:systemd Network Management:/:/sbin/nologin

dbus:x:81:81:System message bus:/:/sbin/nologin

ntp:x:38:38::/etc/ntp:/sbin/nologin

rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin

rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin

nfsnobody:x:65534:65534:Anonymous NFS User:/var/lib/nfs:/sbin/nologin

sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin

nscd:x:28:28:NSCD Daemon:/:/sbin/nologin

nslcd:x:65:55:LDAP Client User:/:/sbin/nologin

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# ldapsearch –x

ldap\_sasl\_interactive\_bind\_s: Unknown authentication method (-6)

additional info: SASL(-4): no mechanism available: No worthy mechs found

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# ldapsearch -x -h master.hpcsa.in cn=hpcsa1

# extended LDIF

#

# LDAPv3

# base <dc=hpcsa,dc=in> (default) with scope subtree

# filter: cn=hpcsa1

# requesting: ALL

#

# hpcsa1, People, hpcsa.in

dn: uid=hpcsa1,ou=People,dc=hpcsa,dc=in

objectClass: inetOrgPerson

objectClass: posixAccount

objectClass: shadowAccount

cn: hpcsa1

sn: Linux

loginShell: /bin/bash

uidNumber: 1003

gidNumber: 1003

homeDirectory: /home/hpcsa1

uid: hpcsa1

# hpcsa1, Group, hpcsa.in

dn: cn=hpcsa1,ou=Group,dc=hpcsa,dc=in

objectClass: posixGroup

cn: hpcsa1

gidNumber: 1003

memberUid: hpcsa1

# search result

search: 2

result: 0 Success

# numResponses: 3

# numEntries: 2

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# getent passwd

root:x:0:0:root:/root:/bin/bash

bin:x:1:1:bin:/bin:/sbin/nologin

daemon:x:2:2:daemon:/sbin:/sbin/nologin

adm:x:3:4:adm:/var/adm:/sbin/nologin

lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin

sync:x:5:0:sync:/sbin:/bin/sync

shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown

halt:x:7:0:halt:/sbin:/sbin/halt

mail:x:8:12:mail:/var/spool/mail:/sbin/nologin

operator:x:11:0:operator:/root:/sbin/nologin

games:x:12:100:games:/usr/games:/sbin/nologin

ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin

nobody:x:99:99:Nobody:/:/sbin/nologin

systemd-network:x:192:192:systemd Network Management:/:/sbin/nologin

dbus:x:81:81:System message bus:/:/sbin/nologin

ntp:x:38:38::/etc/ntp:/sbin/nologin

rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin

rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin

nfsnobody:x:65534:65534:Anonymous NFS User:/var/lib/nfs:/sbin/nologin

sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin

nscd:x:28:28:NSCD Daemon:/:/sbin/nologin

nslcd:x:65:55:LDAP Client User:/:/sbin/nologin

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# systemctl start nslcd

Failed to get D-Bus connection: Operation not permitted

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# systemctl enable nslcd

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# systemctl status nslcd

Failed to get D-Bus connection: Operation not permitted

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# exit

exit

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]# ssh root@node1

Last login: Thu Aug 24 21:11:22 2023 from master

[root@node1 ~]# sudo systemctl status nslcd

-bash: sudo: command not found

[root@node1 ~]# systemctl status nslcd

Unit nslcd.service could not be found.

[root@node1 ~]# vim /etc/hosts

-bash: vim: command not found

[root@node1 ~]# vi /etc/hosts

[root@node1 ~]# yum install vim

-bash: yum: command not found

[root@node1 ~]#

[root@node1 ~]# exit

logout

Connection to node1 closed.

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]# ip a

1: lo: <LOOPBACK,UP,LOWER\_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000

link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00

inet 127.0.0.1/8 scope host lo

valid\_lft forever preferred\_lft forever

inet6 ::1/128 scope host

valid\_lft forever preferred\_lft forever

2: ens33: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 1500 qdisc pfifo\_fast state UP group default qlen 1000

link/ether 00:0c:29:4b:49:28 brd ff:ff:ff:ff:ff:ff

inet 192.168.129.145/24 brd 192.168.129.255 scope global noprefixroute dynamic ens33

valid\_lft 1082sec preferred\_lft 1082sec

inet6 fe80::6cd2:57ba:1730:fc04/64 scope link noprefixroute

valid\_lft forever preferred\_lft forever

3: ens34: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 1500 qdisc pfifo\_fast state UP group default qlen 1000

link/ether 00:0c:29:4b:49:32 brd ff:ff:ff:ff:ff:ff

inet 192.168.130.150/24 brd 192.168.130.255 scope global noprefixroute ens34

valid\_lft forever preferred\_lft forever

inet6 fe80::f279:c969:cb7e:1195/64 scope link noprefixroute

valid\_lft forever preferred\_lft forever

4: virbr0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN group default qlen 1000

link/ether 52:54:00:15:50:06 brd ff:ff:ff:ff:ff:ff

inet 192.168.122.1/24 brd 192.168.122.255 scope global virbr0

valid\_lft forever preferred\_lft forever

5: virbr0-nic: <BROADCAST,MULTICAST> mtu 1500 qdisc pfifo\_fast master virbr0 state DOWN group default qlen 1000

link/ether 52:54:00:15:50:06 brd ff:ff:ff:ff:ff:ff

[root@master ~]# chroot $CHROOT

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# systemctl enable nslcd

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# systemctl status nslcd

Failed to get D-Bus connection: Operation not permitted

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# systemctl start nslcd

Failed to get D-Bus connection: Operation not permitted

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# systemctl status nslcdcat /etc/nslcd.conf

Failed to get D-Bus connection: Operation not permitted

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# cat /etc/nslcd.conf

# This is the configuration file for the LDAP nameservice

# switch library's nslcd daemon. It configures the mapping

# between NSS names (see /etc/nsswitch.conf) and LDAP

# information in the directory.

# See the manual page nslcd.conf(5) for more information.

# The user and group nslcd should run as.

uid nslcd

gid ldap

# The uri pointing to the LDAP server to use for name lookups.

# Multiple entries may be specified. The address that is used

# here should be resolvable without using LDAP (obviously).

#uri ldap://127.0.0.1/

#uri ldaps://127.0.0.1/

#uri ldapi://%2fvar%2frun%2fldapi\_sock/

# Note: %2f encodes the '/' used as directory separator

uri ldap://master/

# The LDAP version to use (defaults to 3

# if supported by client library)

#ldap\_version 3

# The distinguished name of the search base.

base dc=hpcsa,dc=in

# The distinguished name to bind to the server with.

# Optional: default is to bind anonymously.

#binddn cn=proxyuser,dc=example,dc=com

# The credentials to bind with.

# Optional: default is no credentials.

# Note that if you set a bindpw you should check the permissions of this file.

#bindpw secret

# The distinguished name to perform password modifications by root by.

#rootpwmoddn cn=admin,dc=example,dc=com

# The default search scope.

#scope sub

#scope one

#scope base

# Customize certain database lookups.

#base group ou=Groups,dc=example,dc=com

#base passwd ou=People,dc=example,dc=com

#base shadow ou=People,dc=example,dc=com

#scope group onelevel

#scope hosts sub

# Bind/connect timelimit.

#bind\_timelimit 30

# Search timelimit.

#timelimit 30

# Idle timelimit. nslcd will close connections if the

# server has not been contacted for the number of seconds.

#idle\_timelimit 3600

# Use StartTLS without verifying the server certificate.

#ssl start\_tls

#tls\_reqcert never

# CA certificates for server certificate verification

#tls\_cacertdir /etc/ssl/certs

#tls\_cacertfile /etc/ssl/ca.cert

# Seed the PRNG if /dev/urandom is not provided

#tls\_randfile /var/run/egd-pool

# SSL cipher suite

# See man ciphers for syntax

#tls\_ciphers TLSv1

# Client certificate and key

# Use these, if your server requires client authentication.

#tls\_cert

#tls\_key

# Mappings for Services for UNIX 3.5

#filter passwd (objectClass=User)

#map passwd uid msSFU30Name

#map passwd userPassword msSFU30Password

#map passwd homeDirectory msSFU30HomeDirectory

#map passwd homeDirectory msSFUHomeDirectory

#filter shadow (objectClass=User)

#map shadow uid msSFU30Name

#map shadow userPassword msSFU30Password

#filter group (objectClass=Group)

#map group member msSFU30PosixMember

# Mappings for Services for UNIX 2.0

#filter passwd (objectClass=User)

#map passwd uid msSFUName

#map passwd userPassword msSFUPassword

#map passwd homeDirectory msSFUHomeDirectory

#map passwd gecos msSFUName

#filter shadow (objectClass=User)

#map shadow uid msSFUName

#map shadow userPassword msSFUPassword

#map shadow shadowLastChange pwdLastSet

#filter group (objectClass=Group)

#map group member posixMember

# Mappings for Active Directory

#pagesize 1000

#referrals off

#idle\_timelimit 800

#filter passwd (&(objectClass=user)(!(objectClass=computer))(uidNumber=\*)(unixHomeDirectory=\*))

#map passwd uid sAMAccountName

#map passwd homeDirectory unixHomeDirectory

#map passwd gecos displayName

#filter shadow (&(objectClass=user)(!(objectClass=computer))(uidNumber=\*)(unixHomeDirectory=\*))

#map shadow uid sAMAccountName

#map shadow shadowLastChange pwdLastSet

#filter group (objectClass=group)

# Alternative mappings for Active Directory

# (replace the SIDs in the objectSid mappings with the value for your domain)

#pagesize 1000

#referrals off

#idle\_timelimit 800

#filter passwd (&(objectClass=user)(objectClass=person)(!(objectClass=computer)))

#map passwd uid cn

#map passwd uidNumber objectSid:S-1-5-21-3623811015-3361044348-30300820

#map passwd gidNumber objectSid:S-1-5-21-3623811015-3361044348-30300820

#map passwd homeDirectory "/home/$cn"

#map passwd gecos displayName

#map passwd loginShell "/bin/bash"

#filter group (|(objectClass=group)(objectClass=person))

#map group gidNumber objectSid:S-1-5-21-3623811015-3361044348-30300820

# Mappings for AIX SecureWay

#filter passwd (objectClass=aixAccount)

#map passwd uid userName

#map passwd userPassword passwordChar

#map passwd uidNumber uid

#map passwd gidNumber gid

#filter group (objectClass=aixAccessGroup)

#map group cn groupName

#map group gidNumber gid

# This comment prevents repeated auto-migration of settings.

ssl no

tls\_cacertdir /etc/openldap/cacerts

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# ldapsearch -x -h master.hpcsa.in cn=hpcsa1

# extended LDIF

#

# LDAPv3

# base <dc=hpcsa,dc=in> (default) with scope subtree

# filter: cn=hpcsa1

# requesting: ALL

#

# hpcsa1, People, hpcsa.in

dn: uid=hpcsa1,ou=People,dc=hpcsa,dc=in

objectClass: inetOrgPerson

objectClass: posixAccount

objectClass: shadowAccount

cn: hpcsa1

sn: Linux

loginShell: /bin/bash

uidNumber: 1003

gidNumber: 1003

homeDirectory: /home/hpcsa1

uid: hpcsa1

# hpcsa1, Group, hpcsa.in

dn: cn=hpcsa1,ou=Group,dc=hpcsa,dc=in

objectClass: posixGroup

cn: hpcsa1

gidNumber: 1003

memberUid: hpcsa1

# search result

search: 2

result: 0 Success

# numResponses: 3

# numEntries: 2

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# systemctl enable nslcd

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# \_\_vte\_prompt\_command() { true; }

[root@master /]#

[root@master /]#

[root@master /]#

[root@master /]#

[root@master /]# systemctl enable nslcd

[root@master /]# getent passwd

root:x:0:0:root:/root:/bin/bash

bin:x:1:1:bin:/bin:/sbin/nologin

daemon:x:2:2:daemon:/sbin:/sbin/nologin

adm:x:3:4:adm:/var/adm:/sbin/nologin

lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin

sync:x:5:0:sync:/sbin:/bin/sync

shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown

halt:x:7:0:halt:/sbin:/sbin/halt

mail:x:8:12:mail:/var/spool/mail:/sbin/nologin

operator:x:11:0:operator:/root:/sbin/nologin

games:x:12:100:games:/usr/games:/sbin/nologin

ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin

nobody:x:99:99:Nobody:/:/sbin/nologin

systemd-network:x:192:192:systemd Network Management:/:/sbin/nologin

dbus:x:81:81:System message bus:/:/sbin/nologin

ntp:x:38:38::/etc/ntp:/sbin/nologin

rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin

rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin

nfsnobody:x:65534:65534:Anonymous NFS User:/var/lib/nfs:/sbin/nologin

sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin

nscd:x:28:28:NSCD Daemon:/:/sbin/nologin

nslcd:x:65:55:LDAP Client User:/:/sbin/nologin

[root@master /]# exit

exit

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]# ssh root@node1

Last login: Thu Aug 24 21:16:55 2023 from master

[root@node1 ~]#

[root@node1 ~]#

[root@node1 ~]#

[root@node1 ~]# ls

[root@node1 ~]# exit

logout

Connection to node1 closed.

[root@master ~]#

[root@master ~]# chroot $CHROOT

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# \_\_vte\_prompt\_command() { true; }

[root@master /]#

[root@master /]#

[root@master /]#

[root@master /]# getent passwd

root:x:0:0:root:/root:/bin/bash

bin:x:1:1:bin:/bin:/sbin/nologin

daemon:x:2:2:daemon:/sbin:/sbin/nologin

adm:x:3:4:adm:/var/adm:/sbin/nologin

lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin

sync:x:5:0:sync:/sbin:/bin/sync

shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown

halt:x:7:0:halt:/sbin:/sbin/halt

mail:x:8:12:mail:/var/spool/mail:/sbin/nologin

operator:x:11:0:operator:/root:/sbin/nologin

games:x:12:100:games:/usr/games:/sbin/nologin

ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin

nobody:x:99:99:Nobody:/:/sbin/nologin

systemd-network:x:192:192:systemd Network Management:/:/sbin/nologin

dbus:x:81:81:System message bus:/:/sbin/nologin

ntp:x:38:38::/etc/ntp:/sbin/nologin

rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin

rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin

nfsnobody:x:65534:65534:Anonymous NFS User:/var/lib/nfs:/sbin/nologin

sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin

nscd:x:28:28:NSCD Daemon:/:/sbin/nologin

nslcd:x:65:55:LDAP Client User:/:/sbin/nologin

[root@master /]#

[root@master /]#

[root@master /]#

[root@master /]#

[root@master /]#

[root@master /]#

[root@master /]#

[root@master /]#

[root@master /]#

[root@master /]#

[root@master /]#

[root@master /]#

[root@master /]# systemctl start nslcd

Failed to get D-Bus connection: Operation not permitted

[root@master /]# systemctl status nslcd

Failed to get D-Bus connection: Operation not permitted

[root@master /]# systemctl enable nslcd

[root@master /]#

[root@master /]#

[root@master /]# exit

exit

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]# ;

[root@master ~]# ldapsearch -x -h master.hpcsa.in cn=hpcsa1

# extended LDIF

#

# LDAPv3

# base <> (default) with scope subtree

# filter: cn=hpcsa1

# requesting: ALL

#

# search result

search: 2

result: 32 No such object

# numResponses: 1

[root@master ~]# ldapsearch -x

# extended LDIF

#

# LDAPv3

# base <> (default) with scope subtree

# filter: (objectclass=\*)

# requesting: ALL

#

# search result

search: 2

result: 32 No such object

# numResponses: 1

[root@master ~]# chroot $CHROOT

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# ldapsearch -x

# extended LDIF

#

# LDAPv3

# base <dc=hpcsa,dc=in> (default) with scope subtree

# filter: (objectclass=\*)

# requesting: ALL

#

# hpcsa.in

dn: dc=hpcsa,dc=in

objectClass: top

objectClass: dcObject

objectClass: organization

o: hpcsa in

dc: hpcsa

# Manager, hpcsa.in

dn: cn=Manager,dc=hpcsa,dc=in

objectClass: organizationalRole

cn: Manager

description: Directory Manager

# People, hpcsa.in

dn: ou=People,dc=hpcsa,dc=in

objectClass: organizationalUnit

ou: People

# Group, hpcsa.in

dn: ou=Group,dc=hpcsa,dc=in

objectClass: organizationalUnit

ou: Group

# hpcsa1, People, hpcsa.in

dn: uid=hpcsa1,ou=People,dc=hpcsa,dc=in

objectClass: inetOrgPerson

objectClass: posixAccount

objectClass: shadowAccount

cn: hpcsa1

sn: Linux

loginShell: /bin/bash

uidNumber: 1003

gidNumber: 1003

homeDirectory: /home/hpcsa1

uid: hpcsa1

# hpcsa1, Group, hpcsa.in

dn: cn=hpcsa1,ou=Group,dc=hpcsa,dc=in

objectClass: posixGroup

cn: hpcsa1

gidNumber: 1003

memberUid: hpcsa1

# search result

search: 2

result: 0 Success

# numResponses: 7

# numEntries: 6

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# \_\_vte\_prompt\_command() { true; }

[root@master /]#

[root@master /]#

[root@master /]#

[root@master /]# ldapsearch -x

# extended LDIF

#

# LDAPv3

# base <dc=hpcsa,dc=in> (default) with scope subtree

# filter: (objectclass=\*)

# requesting: ALL

#

# hpcsa.in

dn: dc=hpcsa,dc=in

objectClass: top

objectClass: dcObject

objectClass: organization

o: hpcsa in

dc: hpcsa

# Manager, hpcsa.in

dn: cn=Manager,dc=hpcsa,dc=in

objectClass: organizationalRole

cn: Manager

description: Directory Manager

# People, hpcsa.in

dn: ou=People,dc=hpcsa,dc=in

objectClass: organizationalUnit

ou: People

# Group, hpcsa.in

dn: ou=Group,dc=hpcsa,dc=in

objectClass: organizationalUnit

ou: Group

# hpcsa1, People, hpcsa.in

dn: uid=hpcsa1,ou=People,dc=hpcsa,dc=in

objectClass: inetOrgPerson

objectClass: posixAccount

objectClass: shadowAccount

cn: hpcsa1

sn: Linux

loginShell: /bin/bash

uidNumber: 1003

gidNumber: 1003

homeDirectory: /home/hpcsa1

uid: hpcsa1

# hpcsa1, Group, hpcsa.in

dn: cn=hpcsa1,ou=Group,dc=hpcsa,dc=in

objectClass: posixGroup

cn: hpcsa1

gidNumber: 1003

memberUid: hpcsa1

# search result

search: 2

result: 0 Success

# numResponses: 7

# numEntries: 6

[root@master /]# exit

exit

[root@master ~]#

[root@master ~]#

[root@master ~]# mm

bash: mm: command not found...

[root@master ~]# chroot $CHROOT

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# mm

bash: mm: command not found

bash: \_\_vte\_prompt\_command: command not found

[root@master /]#

[root@master /]# exit

exit

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]# vim ldapuser.ldif

[root@master ~]# slappasswd

New password:

Re-enter new password:

{SSHA}uPEOCoqh9UGKaOOVF9CgIks9U4ra1avJ

[root@master ~]# vim ldapuser.ldif

[root@master ~]# vim ldapuser.ldif

[root@master ~]# ldapadd -x -D cn=Manager,dc=srv,dc=world -W -f ldapuser.ldif

Enter LDAP Password:

ldap\_bind: Invalid credentials (49)

[root@master ~]# ldapadd -x -D cn=Manager,dc=hpcsa,dc=in -W -f ldapuser.ldif

Enter LDAP Password:

ldapadd: attributeDescription "dn": (possible missing newline after line 14, entry "uid=cent,ou=People,dc=srv,dc=world"?)

adding new entry "uid=cent,ou=People,dc=srv,dc=world"

ldap\_add: Type or value exists (20)

additional info: cn: value #0 provided more than once

[root@master ~]# vim ldapuser.ldif

[root@master ~]# ldapadd -x -D cn=Manager,dc=srv,dc=world -W -f ldapuser.ldif

Enter LDAP Password:

ldap\_bind: Invalid credentials (49)

[root@master ~]# ldapadd -x -D cn=Manager,dc=hpcsa,dc=in -W -f ldapuser.ldif

Enter LDAP Password:

ldapadd: attributeDescription "dn": (possible missing newline after line 14, entry "uid=hpcsa1,ou=People,dc=srv,dc=world"?)

adding new entry "uid=hpcsa1,ou=People,dc=srv,dc=world"

ldap\_add: Type or value exists (20)

additional info: cn: value #0 provided more than once

[root@master ~]# vim ldapuser.ldif

[root@master ~]# ldapadd -x -D cn=Manager,dc=hpcsa,dc=in -W -f ldapuser.ldif

Enter LDAP Password:

adding new entry "uid=hpcsa1,ou=People,dc=hpcsa,dc=in"

ldap\_add: Already exists (68)

[root@master ~]# chroot $CHROOT

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# getent passwd

root:x:0:0:root:/root:/bin/bash

bin:x:1:1:bin:/bin:/sbin/nologin

daemon:x:2:2:daemon:/sbin:/sbin/nologin

adm:x:3:4:adm:/var/adm:/sbin/nologin

lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin

sync:x:5:0:sync:/sbin:/bin/sync

shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown

halt:x:7:0:halt:/sbin:/sbin/halt

mail:x:8:12:mail:/var/spool/mail:/sbin/nologin

operator:x:11:0:operator:/root:/sbin/nologin

games:x:12:100:games:/usr/games:/sbin/nologin

ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin

nobody:x:99:99:Nobody:/:/sbin/nologin

systemd-network:x:192:192:systemd Network Management:/:/sbin/nologin

dbus:x:81:81:System message bus:/:/sbin/nologin

ntp:x:38:38::/etc/ntp:/sbin/nologin

rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin

rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin

nfsnobody:x:65534:65534:Anonymous NFS User:/var/lib/nfs:/sbin/nologin

sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin

nscd:x:28:28:NSCD Daemon:/:/sbin/nologin

nslcd:x:65:55:LDAP Client User:/:/sbin/nologin

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# exit

exit

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]# vim ldapuser.ldif

[root@master ~]# vim ldapuser.ldif

[root@master ~]# ldapadd -x -D cn=Manager,dc=hpcsa,dc=in -W -f ldapuser.ldif

Enter LDAP Password:

adding new entry "uid=hpcsa2,ou=People,dc=hpcsa,dc=in"

adding new entry "cn=hpcsa2,ou=Group,dc=hpcsa,dc=in"

[root@master ~]# chroot $CHROOT

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# getent passwd

root:x:0:0:root:/root:/bin/bash

bin:x:1:1:bin:/bin:/sbin/nologin

daemon:x:2:2:daemon:/sbin:/sbin/nologin

adm:x:3:4:adm:/var/adm:/sbin/nologin

lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin

sync:x:5:0:sync:/sbin:/bin/sync

shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown

halt:x:7:0:halt:/sbin:/sbin/halt

mail:x:8:12:mail:/var/spool/mail:/sbin/nologin

operator:x:11:0:operator:/root:/sbin/nologin

games:x:12:100:games:/usr/games:/sbin/nologin

ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin

nobody:x:99:99:Nobody:/:/sbin/nologin

systemd-network:x:192:192:systemd Network Management:/:/sbin/nologin

dbus:x:81:81:System message bus:/:/sbin/nologin

ntp:x:38:38::/etc/ntp:/sbin/nologin

rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin

rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin

nfsnobody:x:65534:65534:Anonymous NFS User:/var/lib/nfs:/sbin/nologin

sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin

nscd:x:28:28:NSCD Daemon:/:/sbin/nologin

nslcd:x:65:55:LDAP Client User:/:/sbin/nologin

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# exit

exit

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]# packimage centos7.9-x86\_64-netboot-compute

Packing contents of /install/netboot/centos7.9/x86\_64/compute/rootimg

archive method:cpio

compress method:gzip

[root@master ~]# chroot $CHROOT

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# getent passwd

root:x:0:0:root:/root:/bin/bash

bin:x:1:1:bin:/bin:/sbin/nologin

daemon:x:2:2:daemon:/sbin:/sbin/nologin

adm:x:3:4:adm:/var/adm:/sbin/nologin

lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin

sync:x:5:0:sync:/sbin:/bin/sync

shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown

halt:x:7:0:halt:/sbin:/sbin/halt

mail:x:8:12:mail:/var/spool/mail:/sbin/nologin

operator:x:11:0:operator:/root:/sbin/nologin

games:x:12:100:games:/usr/games:/sbin/nologin

ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin

nobody:x:99:99:Nobody:/:/sbin/nologin

systemd-network:x:192:192:systemd Network Management:/:/sbin/nologin

dbus:x:81:81:System message bus:/:/sbin/nologin

ntp:x:38:38::/etc/ntp:/sbin/nologin

rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin

rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin

nfsnobody:x:65534:65534:Anonymous NFS User:/var/lib/nfs:/sbin/nologin

sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin

nscd:x:28:28:NSCD Daemon:/:/sbin/nologin

nslcd:x:65:55:LDAP Client User:/:/sbin/nologin

bash: \_\_vte\_prompt\_command: command not found

[root@master /]#

bash: \_\_vte\_prompt\_command: command not found

[root@master /]#

bash: \_\_vte\_prompt\_command: command not found

[root@master /]# \_\_vte\_prompt\_command() { true; }

[root@master /]#

[root@master /]#

[root@master /]#

[root@master /]# getent passwd

root:x:0:0:root:/root:/bin/bash

bin:x:1:1:bin:/bin:/sbin/nologin

daemon:x:2:2:daemon:/sbin:/sbin/nologin

adm:x:3:4:adm:/var/adm:/sbin/nologin

lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin

sync:x:5:0:sync:/sbin:/bin/sync

shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown

halt:x:7:0:halt:/sbin:/sbin/halt

mail:x:8:12:mail:/var/spool/mail:/sbin/nologin

operator:x:11:0:operator:/root:/sbin/nologin

games:x:12:100:games:/usr/games:/sbin/nologin

ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin

nobody:x:99:99:Nobody:/:/sbin/nologin

systemd-network:x:192:192:systemd Network Management:/:/sbin/nologin

dbus:x:81:81:System message bus:/:/sbin/nologin

ntp:x:38:38::/etc/ntp:/sbin/nologin

rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin

rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin

nfsnobody:x:65534:65534:Anonymous NFS User:/var/lib/nfs:/sbin/nologin

sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin

nscd:x:28:28:NSCD Daemon:/:/sbin/nologin

nslcd:x:65:55:LDAP Client User:/:/sbin/nologin

[root@master /]# exit

exit

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]# vim ldapuser.ldif

[root@master ~]# ldapadd -x -D cn=Manager,dc=hpcsa,dc=in -W -f ldapuser.ldif

Enter LDAP Password:

adding new entry "uid=hpcsa1,ou=People,dc=hpcsa,dc=in"

ldap\_add: Already exists (68)

[root@master ~]# getent passwd

root:x:0:0:root:/root:/bin/bash

bin:x:1:1:bin:/bin:/sbin/nologin

daemon:x:2:2:daemon:/sbin:/sbin/nologin

adm:x:3:4:adm:/var/adm:/sbin/nologin

lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin

sync:x:5:0:sync:/sbin:/bin/sync

shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown

halt:x:7:0:halt:/sbin:/sbin/halt

mail:x:8:12:mail:/var/spool/mail:/sbin/nologin

operator:x:11:0:operator:/root:/sbin/nologin

games:x:12:100:games:/usr/games:/sbin/nologin

ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin

nobody:x:99:99:Nobody:/:/sbin/nologin

systemd-network:x:192:192:systemd Network Management:/:/sbin/nologin

dbus:x:81:81:System message bus:/:/sbin/nologin

polkitd:x:999:998:User for polkitd:/:/sbin/nologin

libstoragemgmt:x:998:995:daemon account for libstoragemgmt:/var/run/lsm:/sbin/nologin

colord:x:997:994:User for colord:/var/lib/colord:/sbin/nologin

rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin

saned:x:996:993:SANE scanner daemon user:/usr/share/sane:/sbin/nologin

gluster:x:995:992:GlusterFS daemons:/run/gluster:/sbin/nologin

amandabackup:x:33:6:Amanda user:/var/lib/amanda:/bin/bash

saslauth:x:994:76:Saslauthd user:/run/saslauthd:/sbin/nologin

abrt:x:173:173::/etc/abrt:/sbin/nologin

setroubleshoot:x:993:990::/var/lib/setroubleshoot:/sbin/nologin

rtkit:x:172:172:RealtimeKit:/proc:/sbin/nologin

pulse:x:171:171:PulseAudio System Daemon:/var/run/pulse:/sbin/nologin

radvd:x:75:75:radvd user:/:/sbin/nologin

chrony:x:992:987::/var/lib/chrony:/sbin/nologin

unbound:x:991:986:Unbound DNS resolver:/etc/unbound:/sbin/nologin

qemu:x:107:107:qemu user:/:/sbin/nologin

tss:x:59:59:Account used by the trousers package to sandbox the tcsd daemon:/dev/null:/sbin/nologin

sssd:x:990:984:User for sssd:/:/sbin/nologin

usbmuxd:x:113:113:usbmuxd user:/:/sbin/nologin

geoclue:x:989:983:User for geoclue:/var/lib/geoclue:/sbin/nologin

ntp:x:38:38::/etc/ntp:/sbin/nologin

gdm:x:42:42::/var/lib/gdm:/sbin/nologin

rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin

nfsnobody:x:65534:65534:Anonymous NFS User:/var/lib/nfs:/sbin/nologin

gnome-initial-setup:x:988:982::/run/gnome-initial-setup/:/sbin/nologin

sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin

avahi:x:70:70:Avahi mDNS/DNS-SD Stack:/var/run/avahi-daemon:/sbin/nologin

postfix:x:89:89::/var/spool/postfix:/sbin/nologin

tcpdump:x:72:72::/:/sbin/nologin

master:x:1000:1000:master:/home/master:/bin/bash

apache:x:48:48:Apache:/usr/share/httpd:/sbin/nologin

dhcpd:x:177:177:DHCP server:/:/sbin/nologin

named:x:25:25:Named:/var/named:/sbin/nologin

conserver:x:987:981::/home/conserver:/bin/bash

ldap:x:55:55:OpenLDAP server:/var/lib/ldap:/sbin/nologin

[root@master ~]# vim ldapuser.ldif

[root@master ~]# ldapadd -x -D cn=Manager,dc=hpcsa,dc=in -W -f ldapuser.ldif

Enter LDAP Password:

adding new entry "uid=hpcsa1,ou=People,dc=hpcsa,dc=in"

ldap\_add: Already exists (68)

[root@master ~]# ssh root@node1

Last login: Thu Aug 24 22:47:33 2023 from master

[root@node1 ~]# ls

[root@node1 ~]# ip a

1: lo: <LOOPBACK,UP,LOWER\_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000

link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00

inet 127.0.0.1/8 scope host lo

valid\_lft forever preferred\_lft forever

inet6 ::1/128 scope host

valid\_lft forever preferred\_lft forever

2: ens33: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 1500 qdisc pfifo\_fast state UP group default qlen 1000

link/ether 00:0c:29:88:71:c4 brd ff:ff:ff:ff:ff:ff

inet 192.168.130.155/24 brd 192.168.130.255 scope global dynamic ens33

valid\_lft 40663sec preferred\_lft 40663sec

inet6 fe80::20c:29ff:fe88:71c4/64 scope link

valid\_lft forever preferred\_lft forever

[root@node1 ~]# vim /etc/hosts

-bash: vim: command not found

[root@node1 ~]# vi /etc/hosts

[root@node1 ~]# systemctl status nslcd

Unit nslcd.service could not be found.

[root@node1 ~]# getent passwd

root:x:0:0:root:/root:/bin/bash

bin:x:1:1:bin:/bin:/sbin/nologin

daemon:x:2:2:daemon:/sbin:/sbin/nologin

adm:x:3:4:adm:/var/adm:/sbin/nologin

lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin

sync:x:5:0:sync:/sbin:/bin/sync

shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown

halt:x:7:0:halt:/sbin:/sbin/halt

mail:x:8:12:mail:/var/spool/mail:/sbin/nologin

operator:x:11:0:operator:/root:/sbin/nologin

games:x:12:100:games:/usr/games:/sbin/nologin

ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin

nobody:x:99:99:Nobody:/:/sbin/nologin

systemd-network:x:192:192:systemd Network Management:/:/sbin/nologin

dbus:x:81:81:System message bus:/:/sbin/nologin

ntp:x:38:38::/etc/ntp:/sbin/nologin

rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin

rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin

nfsnobody:x:65534:65534:Anonymous NFS User:/var/lib/nfs:/sbin/nologin

sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin

[root@node1 ~]# exit

logout

Connection to node1 closed.

[root@master ~]#

[root@master ~]#

[root@master ~]#

[root@master ~]# packimage centos7.9-x86\_64-netboot-compute

Packing contents of /install/netboot/centos7.9/x86\_64/compute/rootimg

archive method:cpio

compress method:gzip

[root@master ~]# nodeset node1 osimage=centos7.9-x86\_64-netboot-compute

node1: netboot centos7.9-x86\_64-compute

[root@master ~]#

History

131 systemctl stop firewalld

132 systemctl disable firewalld

133 vim /etc/selinux/config

134 yum -y install openldap-servers openldap-clients

135 cp /usr/share/openldap-servers/DB\_CONFIG.example /var/lib/ldap/DB\_CONFIG

136 chown ldap. /var/lib/ldap/DB\_CONFIG

137 systemctl start slapd

138 systemctl enable slapd

139 slappasswd

140 vim chrootpw.ldif

dn: olcDatabase={0}config,cn=config

changetype: modify

add: olcRootPW

olcRootPW: {SSHA}GdxKURlHZhcRWZbm3r0rFpDjaU56g3BO

141 ldapadd -Y EXTERNAL -H ldapi:/// -f chrootpw.ldif

142 ldapadd -Y EXTERNAL -H ldapi:/// -f /etc/openldap/schema/cosine.ldif

143 ldapadd -Y EXTERNAL -H ldapi:/// -f /etc/openldap/schema/nis.ldif

144 ldapadd -Y EXTERNAL -H ldapi:/// -f /etc/openldap/schema/inetorgperson.ldif

145 vim chdomain.ldif

dn: olcDatabase={1}monitor,cn=config

changetype: modify

replace: olcAccess

olcAccess: {0}to \* by dn.base="gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth"

read by dn.base="cn=Manager,dc=hpcsa,dc=in" read by \* none

dn: olcDatabase={2}hdb,cn=config

changetype: modify

replace: olcSuffix

olcSuffix: dc=hpcsa,dc=in

dn: olcDatabase={2}hdb,cn=config

changetype: modify

replace: olcRootDN

olcRootDN: cn=Manager,dc=hpcsa,dc=in

dn: olcDatabase={2}hdb,cn=config

changetype: modify

add: olcRootPW

olcRootPW: {SSHA}HlLk9Qviw3rfsF9UNGOGaNf++0XL/Xun

dn: olcDatabase={2}hdb,cn=config

changetype: modify

add: olcAccess

olcAccess: {0}to attrs=userPassword,shadowLastChange by

dn="cn=Manager,dc=hpcsa,dc=in" write by anonymous auth by self write by \* none

olcAccess: {1}to dn.base="" by \* read

olcAccess: {2}to \* by dn="cn=Manager,dc=hpcsa,dc=in" write by \* read

146 ldapmodify -Y EXTERNAL -H ldapi:/// -f chdomain.ldif

147 vim basedomain.ldif

dn: dc=hpcsa,dc=in

objectClass: top

objectClass: dcObject

objectclass: organization

o: hpcsa in

dc: hpcsa

dn: cn=Manager,dc=hpcsa,dc=in

objectClass: organizationalRole

cn: Manager

description: Directory Manager

dn: ou=People,dc=hpcsa,dc=in

objectClass: organizationalUnit

ou: People

dn: ou=Group,dc=hpcsa,dc=in

objectClass: organizationalUnit

ou: Group

148 ldapadd -x -D cn=Manager,dc=hpcsa,dc=in -W -f basedomain.ldif

149 vim ldapuser.ldif

dn: uid=hpcsa1,ou=People,dc=hpcsa,dc=in

objectClass: inetOrgPerson

objectClass: posixAccount

objectClass: shadowAccount

cn: hpcsa1

sn: Linux

userPassword: {SSHA}HlLk9Qviw3rfsF9UNGOGaNf++0XL/Xun

loginShell: /bin/bash

uidNumber: 1003

gidNumber: 1003

homeDirectory: /home/hpcsa1

dn: cn=hpcsa1,ou=Group,dc=hpcsa,dc=in

objectClass: posixGroup

cn: hpcsa1

gidNumber: 1003

memberUid: hpcsa1

#dn: uid=hpcsa2,ou=People,dc=hpcsa,dc=in

#objectClass: inetOrgPerson

#objectClass: posixAccount

#objectClass: shadowAccount

#cn: hpcsa2

#sn: Linux

#userPassword: {SSHA}HlLk9Qviw3rfsF9UNGOGaNf++0XL/Xun

#loginShell: /bin/bash

#uidNumber: 1000

#gidNumber: 1000

#homeDirectory: /home/hpcsa2

#dn: cn=hpcsa2,ou=Group,dc=hpcsa,dc=in

#objectClass: posixGroup

#cn: hpcsa1

#gidNumber: 1000

#memberUid: hpcsa2

150 ldapadd -x -D cn=Manager,dc=hpcsa,dc=in -W -f ldapuser.ldif

151 yum --installroot=/install/netboot/centos7.9/x86\_64/compute/rootimg

152 yum --installroot=/install/netboot/centos7.9/x86\_64/compute/rootimg install openldap-clients

153 export CHROOT=/install/netboot/centos7.9/x86\_64/compute/rootimg

154 chroot $CHROOT

155 yum --installroot=/install/netboot/centos7.9/x86\_64/compute/rootimg install authconfig

156 chroot $CHROOT

157 systemctl status nslcd

158 ldapsearch –x

159 ldapsearch –X

160 chroot $CHROOT

161 ldapsearch –x

162 hostname

163 echo $CHROOT

164 cat ldapuser.ldif

165 ldapsearch -x -h master.hpcsa.in cn=hpcsa1

166 ldapsearch –x

167 echo $CHROOT

168 chroot $CHROOT

169 rsync /etc/hosts root@node1:/etc/hosts

170 chroot $CHROOT

171 yum --installroot=/install/netboot/centos7.9/x86\_64/compute/rootimg install openldap-clients nss-pam-ldapd

172 export CHROOT=/install/netboot/centos7.9/x86\_64/compute/rootimg

173 chroot $CHROOT

174 ssj root@node1

175 ssh root@node1

176 yum --installroot=/install/netboot/centos7.9/x86\_64/compute/rootimg install yum

177 chroot $CHROOT

178 ssh root@node1

179 packimage centos7.9-x86\_64-netboot-compute

180 chroot $CHROOT

181 ssh root@node1

182 ip a

183 chroot $CHROOT

184 ssh root@node1

185 chroot $CHROOT

186 ldapsearch -x -h master.hpcsa.in cn=hpcsa1

187 ldapsearch -x

188 chroot $CHROOT

189 mm

190 chroot $CHROOT

191 vim ldapuser.ldif

192\*

193 vim ldapuser.ldif

194 ldapadd -x -D cn=Manager,dc=srv,dc=world -W -f ldapuser.ldif

195 ldapadd -x -D cn=Manager,dc=hpcsa,dc=in -W -f ldapuser.ldif

196 vim ldapuser.ldif

197 ldapadd -x -D cn=Manager,dc=srv,dc=world -W -f ldapuser.ldif

198 ldapadd -x -D cn=Manager,dc=hpcsa,dc=in -W -f ldapuser.ldif

199 vim ldapuser.ldif

200 ldapadd -x -D cn=Manager,dc=hpcsa,dc=in -W -f ldapuser.ldif

201 chroot $CHROOT

202 vim ldapuser.ldif

203 ldapadd -x -D cn=Manager,dc=hpcsa,dc=in -W -f ldapuser.ldif

204 chroot $CHROOT

205 packimage centos7.9-x86\_64-netboot-compute

206 chroot $CHROOT

207 vim ldapuser.ldif

208 ldapadd -x -D cn=Manager,dc=hpcsa,dc=in -W -f ldapuser.ldif

209 getent passwd

210 vim ldapuser.ldif

211 ldapadd -x -D cn=Manager,dc=hpcsa,dc=in -W -f ldapuser.ldif

212 ssh root@node1

213 packimage centos7.9-x86\_64-netboot-compute

214 nodeset node1 osimage=centos7.9-x86\_64-netboot-compute

History For CHROOT

1 authconfig --enableldap --enableldapauth --ldapserver=master --ldapbasedn="dc=hpcsa,dc=in" --enablemkhomedir --update

2 exit

3 authconfig --enableldap --enableldapauth --ldapserver=master --ldapbasedn="dc=hpcsa,dc=in" --enablemkhomedir --update

4 systemctl status nslcd

5 systemctl enable nslcd

6 ldapsearch –x

7 exit

8 ldapsearch –x

9 getent passwd

10 ldapsearch –x

11 exit

12 ldapsearch -x -h master.hpcsa.in cn=hpcsa1

13 ldapsearch –x

14 exit

15 ldapsearch –x

16 cat /etc/nslcd.conf

17 yum -y install openldap-clients nss-pam-ldapd

18 exit

19 authconfig --enableldap --enableldapauth --ldapserver=master --ldapbasedn="dc=hpcsa,dc=in" --enablemkhomedir --update

20 systemctl restart nslcd

21 systemctl enable nslcd

22 systemctl status nslcd

23 ldapsearch –x

24 ldapsearch -x -h master.hpcsa.in cn=hpcsa1

25 exit

26 ldapsearch –x

27 cat /etc/nslcd.conf

28 getent passwd

29 ldapsearch –x

30 ldapsearch -x -h master.hpcsa.in cn=hpcsa1

31 getent passwd

32 systemctl start nslcd

33 systemctl enable nslcd

34 systemctl status nslcd

35 exit

36 systemctl enable nslcd

37 systemctl status nslcd

38 systemctl start nslcd

39 systemctl status nslcdcat /etc/nslcd.conf

40 cat /etc/nslcd.conf

41 ldapsearch -x -h master.hpcsa.in cn=hpcsa1

42 systemctl enable nslcd

43 \_\_vte\_prompt\_command() { true; }

44 systemctl enable nslcd

45 getent passwd

46 exit

47 \_\_vte\_prompt\_command() { true; }

48 getent passwd

49 systemctl start nslcd

50 systemctl status nslcd

51 systemctl enable nslcd

52 exit

53 ldapsearch -x

54 \_\_vte\_prompt\_command() { true; }

55 ldapsearch -x

56 exit

57 mm

58 exit

59 getent passwd

60 exit

61 getent passwd

62 exit

63 getent passwd

64 \_\_vte\_prompt\_command() { true; }

65 getent passwd

66 exit