1. To know about OS version and more.

ganesh@ansibleserver:~$ lsb\_release –a …

No LSB modules are available.

Distributor ID: Ubuntu

Description: Ubuntu 14.04.5 LTS

Release: 14.04

Codename: trusty

1. To configure SSH permissions one can make changes to /etc/ssh/sshd\_config,
2. Change PermitRootLogin
3. PermitRootLogin yes … You may also have to check value of PasswordAuthentication. If it is set to no then set to yes
4. PasswordAuthentication yes
5. Now restart SSH service using service or systemctl command.

* $ service sshd restart
* $ systemctl restart sshd

1. To install ifconfig command, we can install the net-tools package..

$ apt-get install –y net-tools

1. To install traceroute command on ubuntu install the utility package.,

$ apt-get install –y inetutils-traceroute

**$ chown jenkins:jenkins <folder/file-name>**

1. If we want to capture all command and output to a file as history, we can use **script** command as shown below.

$ script output.txt … this capture all subsequent commands and its output to ‘output.txt file’

1. [aartgp1\_gmail\_com@git-trial ~]$ script output.txt

Script started, file is output.txt

1. [aartgp1\_gmail\_com@git-trial ~]$ ls -la

total 24

drwxr-xr-x. 2 aartgp1\_gmail\_com 804625858 4096 Dec 25 05:17 .

drwxr-xr-x. 3 root root 4096 Dec 24 03:52 ..

-rw-------. 1 aartgp1\_gmail\_com 804625858 8 Dec 24 03:58 .bash\_history

-rw-r--r--. 1 aartgp1\_gmail\_com 804625858 18 Dec 24 03:52 .bash\_logout

-rw-r--r--. 1 aartgp1\_gmail\_com 804625858 176 Dec 24 03:52 .bash\_profile

-rw-r--r--. 1 aartgp1\_gmail\_com 804625858 124 Dec 24 03:52 .bashrc

-rw-r--r--. 1 aartgp1\_gmail\_com 804625858 0 Dec 25 05:17 output.txt

[aartgp1\_gmail\_com@git-trial ~]$ mkdir newfolder

[aartgp1\_gmail\_com@git-trial ~]$ cd newfolder/

[aartgp1\_gmail\_com@git-trial newfolder]$ exit

exit

Script done, file is output.txt

1. cat output.txt

Script started on Tue 25 Dec 2018 05:17:33 AM UTC

/usr/bin/id: cannot find name for group ID 804625858

[aartgp1\_gmail\_com@git-trial ~]$ ls -la

total 24

drwxr-xr-x. 2 aartgp1\_gmail\_com 804625858 4096 Dec 25 05:17 .

drwxr-xr-x. 3 root root 4096 Dec 24 03:52 ..

-rw-------. 1 aartgp1\_gmail\_com 804625858 8 Dec 24 03:58 .bash\_history

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-rw-r--r--. 1 aartgp1\_gmail\_com 804625858 0 Dec 25 05:17 output.txt

[aartgp1\_gmail\_com@git-trial ~]$ mkdir newfolder

[aartgp1\_gmail\_com@git-trial ~]$ cd newfolder/

[aartgp1\_gmail\_com@git-trial newfolder]$ exit

exit

1. $ chmod 111 sample.file … This will make the file executable for all

$ chmod 222 sample.file … This will make the writable for all

$ chmod 333 sample.file … This will make the file writable and executable for all

$ chmod 444 sample.file …. This will make the file read only for all

$ chmod 555 sample.file … This will make the file executable and Read only for all

$ chmod 666 sample.file … This will make the file read and writable for all, but not executable.

$ chmod 777 sample.file … this will make the file read, write and executable for all.

User group, the file belongs to

$ chmod X X X <filename/ foldername>

User-owner

Everyone (All users)

1. $ chown user1 –Rf file / foldername …. Changes user ownership of file to user1 .. in case of a folder -R changes recursively inside the folder as well.
2. $ chgrp user1 –Rf file / foldername … change group ownership of file to grp. –R to be used for recursive effect.
3. Installing applications using yum or apt repository package handler.

In these Linux releases, the folder /etc/yum.repos.d or, /etc/apt.repos.d has .repo files with information about package repositories. In case if a package is not available on these repositories that are listed in the .repo files we can add entries into .repo files and download packages from the cloud / remote repositories.

The entry in the .repo file looks like as shown below,

[epel-source]

name=Extra Packages for Enterprise Linux 7 - $basearch - Source

#baseurl=http://download.fedoraproject.org/pub/epel/7/SRPMS

metalink=https://mirrors.fedoraproject.org/metalink?repo=epel-source-7&arch=$basearch

failovermethod=priority

enabled=0

gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-EPEL-7

gpgcheck=1

$ yum install <package name>

$ yum remove <package name>

1. Command rpm ... stands for RedHat Package Manager

$ rpm –ql <repo name> .. list repo list

$ rpm –iv <rpm file name with path> install certain package with verbose

**Handy hostname command…**

|  |  |
| --- | --- |
| Some Basic Commands | |
| | | Pipe (redirect) output |
| sudo [command] | run < command> in superuser mode |
| nohup [command] | run < command> immune to hangup signal |
| man [command] | display help pages of <command> |
| [command] & | run < command> and send task to background |
| >> [fileA] | append to fileA, preserving existing contents |
| > [fileA] | output to fileA, overwriting contents |
| echo -n | display a line of text |
| xargs | build command line from previous output |
| 1>2& | Redirect stdout to stderr |
| fg %N | go to task N |
| jobs | list task |
| ctrl-z | suspend current task |

**Network**

|  |  |
| --- | --- |
| netstat -r -v | print network information routing and connections |
| telnet | user interface to the telnet protocol |
| tcpdump | dump network traffic |
| ssh -i | openSSH client |
| ping -c | print routing packet trace to host network |

**file utilities**

|  |  |
| --- | --- |
| tr -d | translate or delete character |
| uniq -c -u | report or omit repeated lines |
| split -l | split file into pieces |
| wc -w | print newline, word, and byte counts for each file |
| head -n | output the first part of files |
| cut -s | remove section of a file |
| more, less | view file content, one page at a time |
| tail -f | output last part of the file |