



Ubuntu Admin commands and More

- a) 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
```

- b) To configure SSH permissions one can make changes to `/etc/ssh/sshd_config`,

- 1) Change `PermitRootLogin`
- 2) `PermitRootLogin yes` ... You may also have to check value of `PasswordAuthentication`. If it is set to no then set to yes
- 3) `PasswordAuthentication yes`
- 4) Now restart SSH service using `service` or `systemctl` command.
 - `$ service sshd restart`
 - `$ systemctl restart sshd`

- c) To install `ifconfig` command, we can install the `net-tools` package..

```
$ apt-get install -y net-tools
```

- d) To install `traceroute` command on ubuntu install the utility package.,

```
$ apt-get install -y inetutils-traceroute
```

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

- e) 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'
```

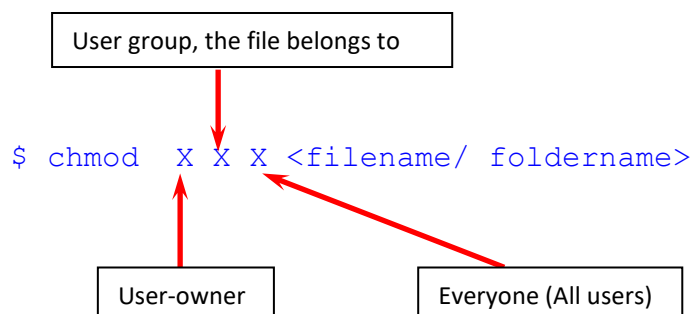
```
1) [aartgpl_gmail_com@git-trial ~]$ script output.txt
Script started, file is output.txt
```

```
2) [aartgpl_gmail_com@git-trial ~]$ ls -la
total 24
drwxr-xr-x. 2 aartgpl_gmail_com 804625858 4096 Dec 25 05:17 .
drwxr-xr-x. 3 root              root      4096 Dec 24 03:52 ..
-rw-----. 1 aartgpl_gmail_com 804625858      8 Dec 24 03:58
.bash_history
-rw-r--r--. 1 aartgpl_gmail_com 804625858     18 Dec 24 03:52
.bash_logout
-rw-r--r--. 1 aartgpl_gmail_com 804625858    176 Dec 24 03:52
.bash_profile
-rw-r--r--. 1 aartgpl_gmail_com 804625858    124 Dec 24 03:52 .bashrc
-rw-r--r--. 1 aartgpl_gmail_com 804625858      0 Dec 25 05:17
output.txt
[aartgpl_gmail_com@git-trial ~]$ mkdir newfolder
[aartgpl_gmail_com@git-trial ~]$ cd newfolder/
```



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- ```
[aartgpl_gmail_com@git-trial newfolder]$ exit
exit
Script done, file is output.txt
```
- 3) `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
[aartgpl_gmail_com@git-trial ~]$ ls -la
total 24
drwxr-xr-x. 2 aartgpl_gmail_com 804625858 4096 Dec 25 05:17 .
drwxr-xr-x. 3 root              root      4096 Dec 24 03:52 ..
-rw-----. 1 aartgpl_gmail_com 804625858    8 Dec 24 03:58
.bash_history
-rw-r--r--. 1 aartgpl_gmail_com 804625858   18 Dec 24 03:52
.bash_logout
-rw-r--r--. 1 aartgpl_gmail_com 804625858  176 Dec 24 03:52
.bash_profile
-rw-r--r--. 1 aartgpl_gmail_com 804625858  124 Dec 24 03:52 .bashrc
-rw-r--r--. 1 aartgpl_gmail_com 804625858    0 Dec 25 05:17
output.txt
[aartgpl_gmail_com@git-trial ~]$ mkdir newfolder
[aartgpl_gmail_com@git-trial ~]$ cd newfolder/
[aartgpl_gmail_com@git-trial newfolder]$ exit
exit
```
- 4) `$ chmod 111 sample.file ...` This will make the file executable for all
`$ chmod 222 sample.file ...` This will make the file 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.



- 5) `$ 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.



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- 6) `$ chgrp user1 -Rf file / foldername` ... change group ownership of file to grp. -R to be used for recursive effect.

- 7) 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>
```

- 8) 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



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more, less	view file content, one page at a time
tail -f	output last part of the file