ARTH 3.0

Session 2 – 29th Sept 2022 Commands

➢ Short cut to pause a process (left) Ctrl+Z

➢ Command to see the process running in background "jobs"

➢ Command to put a process from background to foreground "fg 1"

➢ Command to check the network connectivity "ping 8.8.8.8"

➢ Short cut to kill a process (left) Ctrl+C

```
64 bytes from 8.8.8.8: icmp_seq=13 ttl=60 time=29.1 ms
^C
--- 8.8.8.8 ping statistics ---
13 packets transmitted, 13 received, 0% packet loss, time 1
rtt min/avg/max/mdev = 29.115/30.586/32.278/1.073 ms
[root@localhost ~]#
```

➢ Command to check the RAM space "free –m"

```
[root@localhost ~]# free   -m
              total        used        free      shared  bu
Mem:           7681        1243        5772          24
Swap:          8067           0        8067
[root@localhost ~]#
```

➢ Command that gives the location or path of the program file in the hard disk "which firefox"

```
[root@localhost ~]# which   firefox
/usr/bin/firefox
[root@localhost ~]#
```

➢ Command to change the directory "cd usr/bin/"

```
[root@localhost ~]# cd   /usr/bin/
[root@localhost bin]#
[root@localhost bin]#
```

➢ Command to see the present working directory "pwd"

```
[root@localhost bin]# pwd
/usr/bin
```

➢ Command to list the files "ls"

```
[root@localhost bin]# ls
```

➢ Command to create a new terminal "gnome-terminal"

```
[root@localhost bin]# gnome-terminal
[root@localhost bin]# 
```

➢ Command to take screenshots

```
[root@localhost ~]# gnome-screenshot
[root@localhost ~]# pwd
/root
[root@localhost ~]# ls
anaconda-ks.cfg  Documents  hi.png  Pictures  Templ
Desktop          Downloads  Music   Public    Video
[root@localhost ~]# cd Pictures
[root@localhost Pictures]# ls
'Screenshot from 2022-09-28 15-39-41.png'
'Screenshot from 2022-09-29 19-40-47.png'
'Screenshot from 2022-09-29 19-42-22.png'
[root@localhost Pictures]#
```

➢ Command to clear the screen

```
[root@localhost Pictures]# clear
```

➢ Command with the option " gnome-screenshot –a"

```
[root@localhost Pictures]# gnome-screenshot -a
```

➢ Command to take the screenshot automatically after a delay of 5sec "gnome-screenshots –d 5"

```
[root@localhost Pictures]# gnome-screenshot  -d 5
[root@localhost Pictures]#
```

➤ Command to see the manual "gnome-screenshot –h"

```
[root@localhost Pictures]# gnome-screenshot  -h
```

```
Usage:
  gnome-screenshot [OPTION…]

Help Options:
  -h, --help                        Show help options
  --help-all                        Show all help opti
  --help-gapplication               Show GApplication
  --help-gtk                        Show GTK+ Options

Application Options:
  -c, --clipboard                   Send the grab dire
  -w, --window                      Grab a window inst
```

➤ Command to take a screenshot and place it in a folder "gnome-screenshot –d 2 –f my.png"

```
[root@localhost Pictures]# gnome-screenshot  -d 2   -f my.pn
[root@localhost Pictures]# ls
my.png
'Screenshot from 2022-09-28 15-39-41.png'
'Screenshot from 2022-09-29 19-40-47.png'
'Screenshot from 2022-09-29 19-42-22.png'
'Screenshot from 2022-09-29 19-43-54.png'
'Screenshot from 2022-09-29 19-44-12.png'
'Screenshot from 2022-09-29 19-45-17.png'
'Screenshot from 2022-09-29 19-45-24.png'
'Screenshot from 2022-09-29 19-46-30.png'
[root@localhost Pictures]# cd /root/
[root@localhost ~]# pwd
/root
[root@localhost ~]#
```

➤ Command to see all the command run "history"

```
[root@localhost ~]# history
```

➢ Command to connect to speaker espeak-ng

```
[root@localhost ~]# espeak-ng
hello
```

➢ Command to print "echo vimal"

```
[root@localhost ~]# echo  vimal
vimal
[root@localhost ~]#
```

➢ Output of command is given as input to another command using pipe symbol (|)

```
[root@localhost ~]#
[root@localhost ~]# echo  hello   |  espeak-ng
```

```
[root@localhost ~]# date |  espeak-ng
[root@localhost ~]#
```
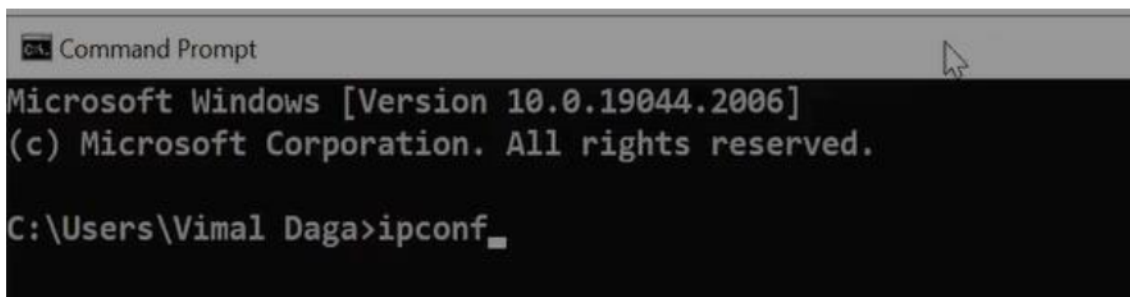
➢ Command to see the manual "espeak-ng –h"

```
[root@localhost ~]# espeak-ng  -h
```

```
[root@localhost ~]# echo  linux wolrd
linux wolrd
[root@localhost ~]# echo  linux world
linux world
[root@localhost ~]# echo  linux world |  espeak-ng
[root@localhost ~]# echo  linux world |  espeak-ng  -g 20
[root@localhost ~]#
```

➢ Command to check the IP Address in Linux "ifconfig"

```
[root@localhost ~]# ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.1.2  netmask 255.255.255.0  broadcast 1
        inet6 2402:e280:2319:1c:a00:27ff:fef0:e3b5  prefixle
obal>
        inet6 fe80::a00:27ff:fef0:e3b5  prefixlen 64  scopei
        ether 08:00:27:f0:e3:b5  txqueuelen 1000  (Ethernet)
        RX packets 19271  bytes 18864860 (17.9 MiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 8599  bytes 1501638 (1.4 MiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collis
```
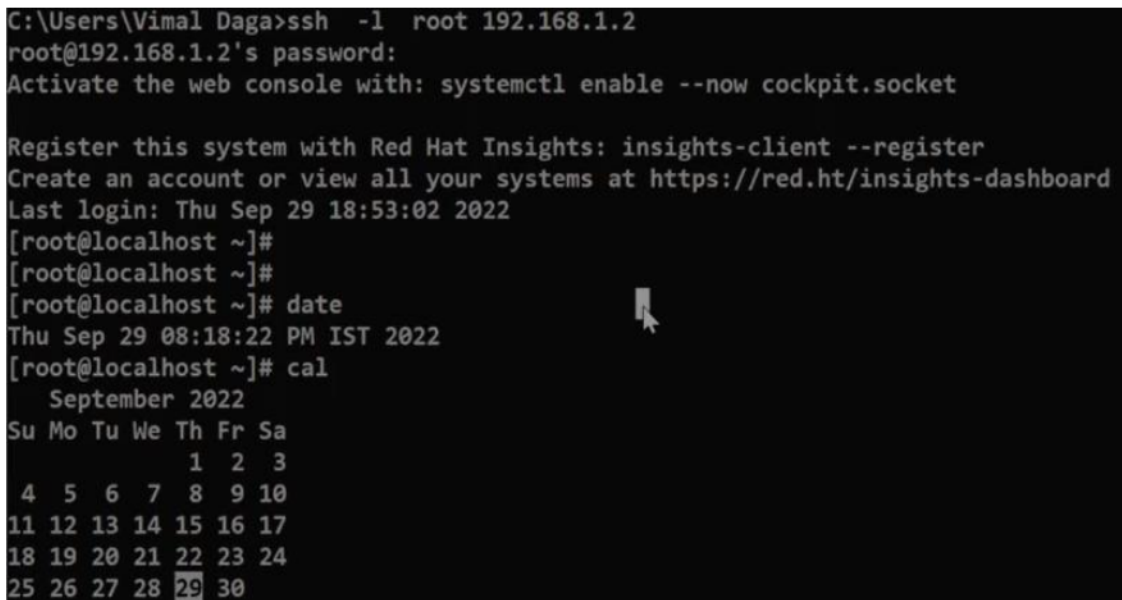
➢ Command to check the IP Address in Windows "ipconfig"

```
Command Prompt

Microsoft Windows [Version 10.0.19044.2006]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Vimal Daga>ipconf_
```

➢ Command to login from windows to Linux – Remote Login "ssh –l root IP_Address_of_linux"

```
C:\Users\Vimal Daga>ssh  -l  root 192.168.1.2
root@192.168.1.2's password:
Activate the web console with: systemctl enable --now cockpit.socket

Register this system with Red Hat Insights: insights-client --register
Create an account or view all your systems at https://red.ht/insights-dashboard
Last login: Thu Sep 29 18:53:02 2022
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# date
Thu Sep 29 08:18:22 PM IST 2022
[root@localhost ~]# cal
    September 2022
Su Mo Tu We Th Fr Sa
             1  2  3
 4  5  6  7  8  9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30
```

➢ Command to check who has logged in to the system "who"

```
[root@localhost ~]# who
root     tty2      2022-09-29 18:53 (tty2)
[root@localhost ~]# who
root     tty2      2022-09-29 18:53 (tty2)
root     pts/1     2022-09-29 20:21 (192.168.1.12)
[root@localhost ~]#
```