



UNIVERSITY OF  
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SCHOOL OF INFORMATION AND TECHNOLOGY

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## SYSADM1 – Managing Services in Linux

### Requirement:

- A virtual machine running Linux and Windows OS

In this lab, we'll use a number of Linux commands here is a reminder of what these commands do:

- **sudo <command>**: executes a command with administrator rights

```
maki@maki-VirtualBox: ~/Desktop
maki@maki-VirtualBox:~/Desktop$ sudo -v
[sudo] password for maki:
maki@maki-VirtualBox:~/Desktop$ sudo -V
Sudo version 1.9.9
Sudoers policy plugin version 1.9.9
Sudoers file grammar version 48
Sudoers I/O plugin version 1.9.9
Sudoers audit plugin version 1.9.9
maki@maki-VirtualBox:~/Desktop$ sudo -l
Matching Defaults entries for maki on maki-VirtualBox:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin,
    use_pty

User maki may run the following commands on maki-VirtualBox:
    (ALL : ALL) ALL
maki@maki-VirtualBox:~/Desktop$
```

- **ls <directory>**: lists the files in a directory

```
maki@maki-VirtualBox:~/Desktop$ sudo -v
[sudo] password for maki:
Sorry, try again.
[sudo] password for maki:
Sorry, try again.
[sudo] password for maki:
sudo: 3 incorrect password attempts
maki@maki-VirtualBox:~/Desktop$
maki@maki-VirtualBox:~/Desktop$ sudo -v
[sudo] password for maki:
maki@maki-VirtualBox:~/Desktop$ sudo -V
Sudo version 1.9.9
Sudoers policy plugin version 1.9.9
Sudoers file grammar version 48
Sudoers I/O plugin version 1.9.9
Sudoers audit plugin version 1.9.9
maki@maki-VirtualBox:~/Desktop$ cd ..
maki@maki-VirtualBox:~$ ls
Desktop  Documents  Downloads  Music  Pictures  Public  snap  Templates  Videos
maki@maki-VirtualBox:~$ sudo ls
Desktop  Documents  Downloads  Music  Pictures  Public  snap  Templates  Videos
maki@maki-VirtualBox:~$
```

- **mv <old\_name> <new\_name>**: moves or renames a file from the old name to the new name

```
maki@maki-VirtualBox:~/Documents$ rm Movies
rm: cannot remove 'Movies': Is a directory
maki@maki-VirtualBox:~/Documents$ ls
Movies
maki@maki-VirtualBox:~/Documents$ rm -r Movies
maki@maki-VirtualBox:~/Documents$ ls
maki@maki-VirtualBox:~/Documents$ mkdir movies
maki@maki-VirtualBox:~/Documents$ ls
movies  Movies
maki@maki-VirtualBox:~/Documents$ mv movies Movies
maki@maki-VirtualBox:~/Documents$ ls
Movies
maki@maki-VirtualBox:~/Documents$ cd Movies
maki@maki-VirtualBox:~/Documents/Movies$ ls
maki@maki-VirtualBox:~/Documents/Movies$
```

- **tail <file>**: shows the last lines of a file

A terminal window titled 'maki@maki-VirtualBox: ~/Documents/Movies' showing the output of the 'tail' command. The output displays the last 31 lines of a file named 'myfile'. The content of the file consists of a series of random characters and words: '2', '31', 'asdasd', 'qqweqe', 'dasdasd', 'asdasdsad', 'asdasdsad', 'sadasdsadsa', and 'asd'. The terminal interface includes a sidebar with application icons and a top status bar showing the date and time as 'Oct 2 09:07'.

```
maki@maki-VirtualBox: ~/Documents/Movies
maki@maki-VirtualBox:~/Documents/Movies$ ls
movies  myfile
maki@maki-VirtualBox:~/Documents/Movies$ tail myfile
2
31
asdasd
qqweqe
dasdasd
asdasdsad
asdasdsad
sadasdsadsa
asd
maki@maki-VirtualBox:~/Documents/Movies$
```

- **cat <file>**: prints the whole contents of a file

A terminal window titled 'maki@maki-VirtualBox: ~/Documents/Movies' showing the output of the 'cat' command. The output displays the entire contents of the file 'myfile'. The content is identical to the previous screenshot, showing the last 31 lines of the file: '2', '31', 'asdasd', 'qqweqe', 'dasdasd', 'asdasdsad', 'asdasdsad', 'sadasdsadsa', and 'asd'. The terminal interface is consistent with the previous image, showing the same sidebar and status bar.

```
maki@maki-VirtualBox: ~/Documents/Movies
maki@maki-VirtualBox:~/Documents/Movies$ ls
movies  myfile
maki@maki-VirtualBox:~/Documents/Movies$ tail myfile
2
31
asdasd
qqweqe
dasdasd
asdasdsad
asdasdsad
sadasdsadsa
asd
maki@maki-VirtualBox:~/Documents/Movies$ cat myfile
1
2
2
2
31
asdasd
qqweqe
dasdasd
asdasdsad
asdasdsad
sadasdsadsa
asd
maki@maki-VirtualBox:~/Documents/Movies$
```

- **grep <pattern> <file>**: filters the text of a file according to the pattern

A terminal window titled 'maki@maki-VirtualBox: ~/Documents/Movies' showing the following commands and output:

```
maki@maki-VirtualBox:~/Documents/Movies$ ls
movies  myfile
maki@maki-VirtualBox:~/Documents/Movies$ tail myfile
2
31
asdasd
qqweqe
dasdasd
asdasdsad
asdasdasd
sadasdsadsa
asd
maki@maki-VirtualBox:~/Documents/Movies$ cat myfile
1
2
2
2
31
asdasd
qqweqe
dasdasd
asdasdsad
asdasdasd
sadasdsadsa
asd
maki@maki-VirtualBox:~/Documents/Movies$ grep 2 myfile
2
2
2
maki@maki-VirtualBox:~/Documents/Movies$
```

- **less <file>:** lets you browse a file

A terminal window titled 'maki@maki-VirtualBox: ~/Documents/Movies' showing the following command and output:

```
maki@maki-VirtualBox:~/Documents/Movies$ less myfile
1
2
2
2
31
asdasd
qqweqe
dasdasd
asdasdsad
asdasdasd
sadasdsadsa
asd
myfile (END)
```

Additionally, you can combine these commands using the | sign. For example:

**sudo cat /var/log/syslog | grep error | tail**

Copied!

content\_copy

will first print the output of `/var/log/syslog`, then keep only the lines that say "error" and then the last 10 lines of that output.