

TIE-23546 Cloud Platforms
Exercise 2: Linux System Administration
v1.3

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In this exercise, we deal with Linux administrator commands.

1. Take a snapshot [VMware Workstation\ Ubuntu Server 01 -> Snapshot\ Take Snapshot\ Snapshot 2].
[Oracle VirtualBox\ Ubuntu Server 01 -> Snapshot\ Take\ Snapshot 2].
2. Turn on the Ubuntu Server 01 and open the SSH connection. Answer the questions in the table.

System Administration		
Number	What command you...	Command
1	A) print the amount of used disk space in gigabytes B) How much disk space was used in gigabytes? C) How much disk space was available gigabytes?	A) Df-h B) 6.9216 G C) 19.492 G TOTAL size = 26 G
2	A) print /lib directory size B) What was the size of the /lib directory?	A) du -h /lib B) 0
3	A) print every process on the system B) print only proses numbers for the SSH server	A) ps -auxf B) ps -ef
4	create the file runme.sh	Cat >runme.sh
5	Type or copy the following lines in "runme.sh". #!/bin/bash date +%d-%m-%Y-%H:%M Tip. You can use nano editor (link).	cat >runme.sh #!/bin/bash date +%d-%m-%Y-%H:%M
6	specify that only the owner of the runme.sh script has read, write, and execute privileges	Chmod +rwx
7	A) run runme.sh script B) What was the output?	A) -rwxrwxr-x 1 kumud kumud 33 Nov 1 05:39 runme.sh
8	take a backup of the home directory (/home/user_name) to /tmp directory. Use tar command. Name the target file backup.tar.gz. Tip! Check the link .	/ \$ tar -zcvf /tmp/kum-backup.tar.gz /home/kumud/

9	<p>A) update the package index files</p> <p>B) install the newest versions of all packages</p> <p>C) install ntpdate package</p> <p>Tip! Check the link.</p>	<p>A) apt-get update</p> <p>B) apt-get upgrade</p> <p>C) apt-get install ntpdate</p>
10	update the system clock from time1.mikes.fi	ntpdate -u time1.mikes.fi
11	update the hardware clock from the system clock	Hwclock -w
12	print the network status	netstat
13	print network interface configuration from eth0 or ens33	Ifconfig
14	print the IP routing table	Ip route list Or Netstat -rn
15	Shutdown the Ubuntu Server first. Then close the WMware software.	sudo poweroff
16	Do not destroy the virtual machine. We will use it in the future exercises.	
17	Save the final report to your home directory in Word Doc and Adobe PDF (Word / File / Save as / PDF).	
18	Return the final report in PDF format.	