



MITS 6001

Cloud Computing

Assignment 2

VM Deployment

February 2020

Due Date: Session 9
Total Marks: 10%
Individual Assignment.

Task

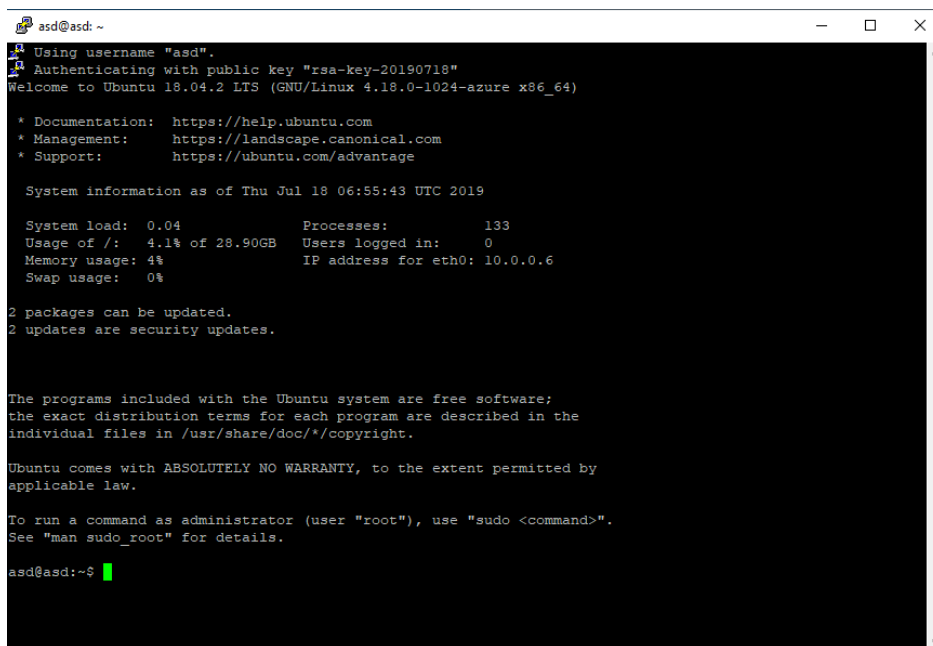
Task 1: Create a Virtual machine in the Azure portal

Your Virtual machine should have

- a) The name of the resource group should be your name_studentID.
- b) Use an image as Ubuntu Server 18.04 LTS.
- c) Administrator account should be SSH public key.
 - I. SSH public should be generated by using `putty_gen`. Copy the generated public key and paste it in the **SSH public key**.
(download putty and putty_gen from the link given below. Please learn how to create public and private keys)
 - II. Save the key by clicking on save private key and save it on `.ppk` format
(Please follow the link: <https://www.ssh.com/ssh/putty/windows/puttygen>)
- d) Make sure HTTPS and HTTP and SSH virtual machine network ports are accessible from the public Internet.

Task 2: Connect via SSH

- a) Download PuTTY from the PuTTY website.
- b) Host name is provided in your VM in the format `asd@20.36.34.16` and Port is 22.
- c) Provide a private key generated on the previous step on the SSH-->Auth-->Private keyfile for authentication.
- d) Click Open and you should get the screen as shown below.



```
asd@asd: ~  
Using username "asd".  
Authenticating with public key "rsa-key-20190718"  
Welcome to Ubuntu 18.04.2 LTS (GNU/Linux 4.18.0-1024-azure x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/advantage  
  
System information as of Thu Jul 18 06:55:43 UTC 2019  
  
System load:  0.04          Processes:    133  
Usage of /:   4.1% of 28.90GB  Users logged in:  0  
Memory usage: 4%           IP address for eth0: 10.0.0.6  
Swap usage:   0%  
  
2 packages can be updated.  
2 updates are security updates.  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
asd@asd:~$
```

Submission Criteria:

The report should have a consistent, professional, and well-organized appearance with 12-point font size and at least single line spacing with appropriate section headings.

1. Your report should include the following:
 - The **cover page** must identify student names and the ID numbers, unit details, assignment details and lecturer details.
 - **Screens-shots** of each step you come across and the description.
***note: the resource group should be your name_studentID*
2. The report must be submitted in soft (electronic) copy as a Microsoft Word document on the LMS in Turnitin dropbox. Assignments submitted on the LMS will only be accepted.
3. Late penalty applies on late submission, 10% per day would be deducted.
4. The assignments will go through Turnitin and plagiarism penalty will be applied.

Marking Guide: 100 Marks

Task	Description	Marks
Task 1 Create a VM	Screens-shots of each step and the description	30
Task 2 Connect via SSH	Successfully Connected	10
Report Layout	The report style, language and structure and should be appropriate.	10
Total		50