

Atria Institute of Technology



Department of Information Science and Engineering

Big Data Analytics (18CS72)

Assignment-1

SUBMITTED BY

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Section: ISE '2'

Submission Date:

Course Handling Faculty Name:

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Sl. No	Description
1	1. create an EC2 Linux instance in AWS Cloud /Any cloud INSTANCE NAME - YOUR NAME INSTANCE TYPE - t2.micro/any other also. key pair name- your name storage - 10 GB Take the screenshot of instance running status Mention the private IP address and Public IP address. (Execute this program/concept and take a screenshot of the output)
2	Execute the basic Linux commands/ simple program on the instance (Execute this program and take a screenshot of the output)
3	Create the GitHub Account with your credentials, Same things stored in public repository in Github. Share the assignment in github link.

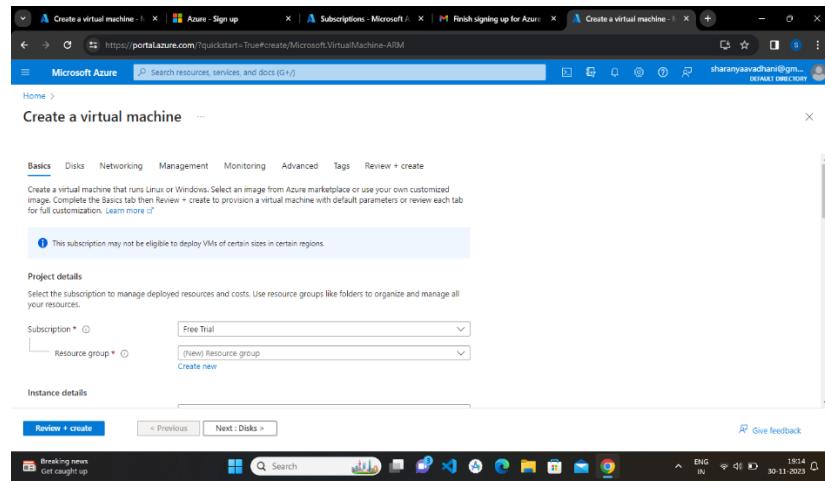
Note:

1. Minimum 10 Screenshots with proper explanation
 2. Minimum no of pages – 10
 3. Submit your Assignment soft copy (Word & PDF) to anandakumar.ks@atria.edu.
- Subject Line in mail:** Student_Name_USN_BDA_Assignment1
4. Share your assignment Github link in Assignment Document.
 5. Submit Assignment on or before **27th Nov 2023**.

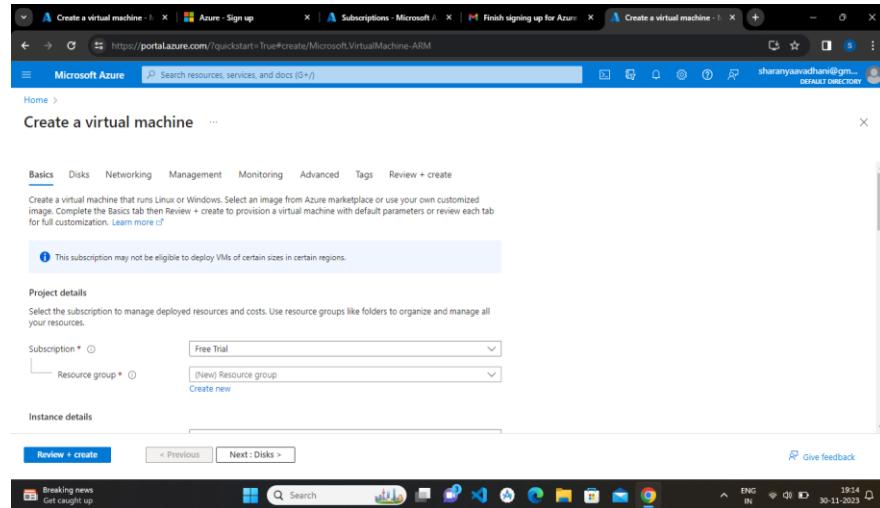
Instance Creation-01

Virtual Machine Instance created in Microsoft Azure

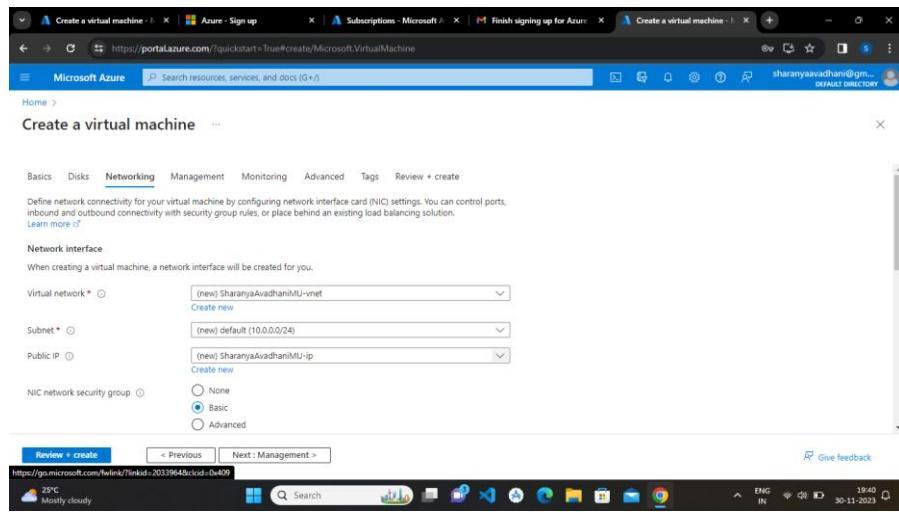
Step:1 Creating a Virtual Machine



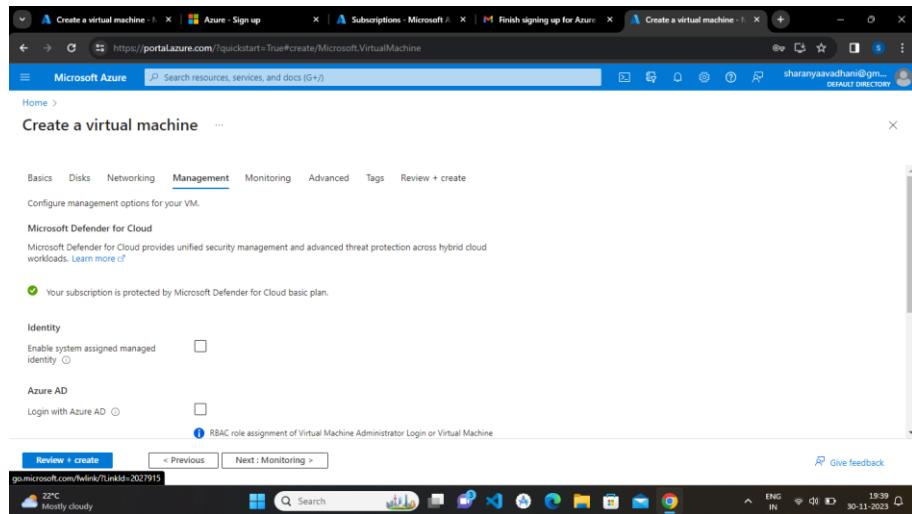
Step:2 Filling the basic details



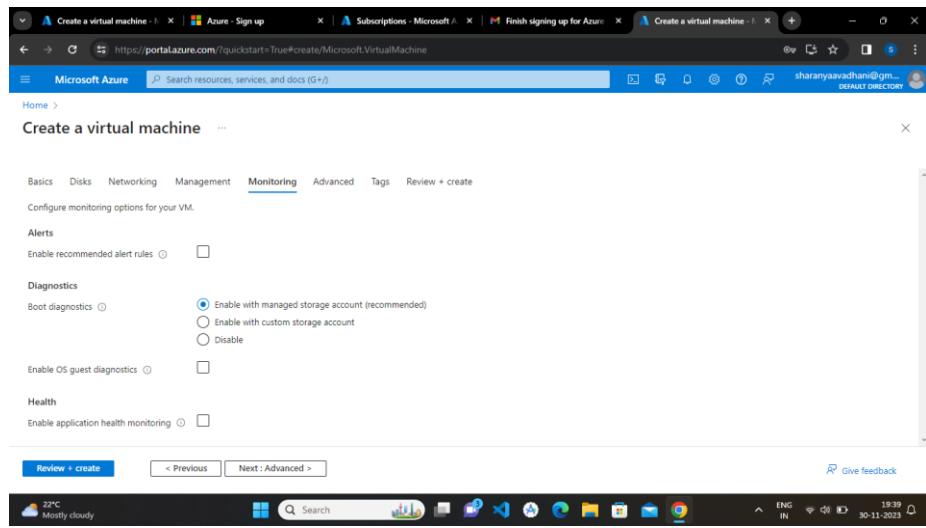
Step:3 Network Interface



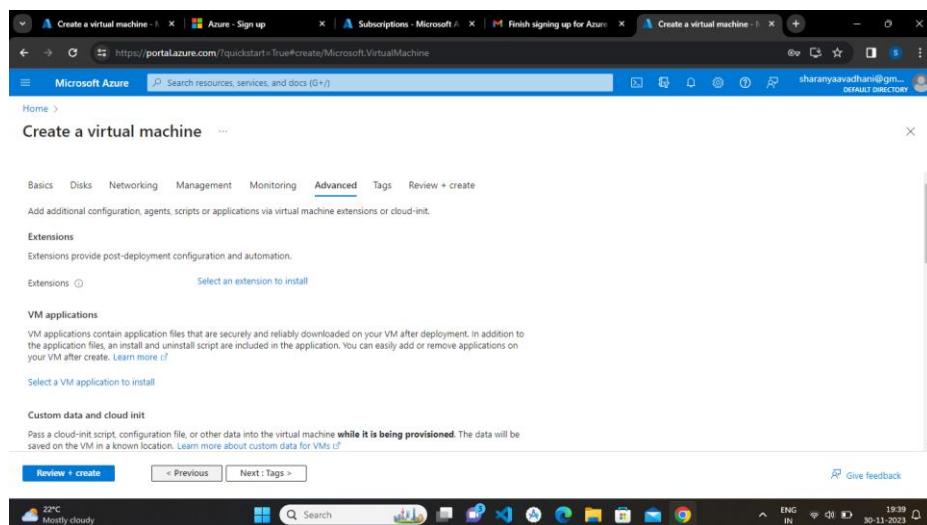
Step:4 Configuring manage option for the VM



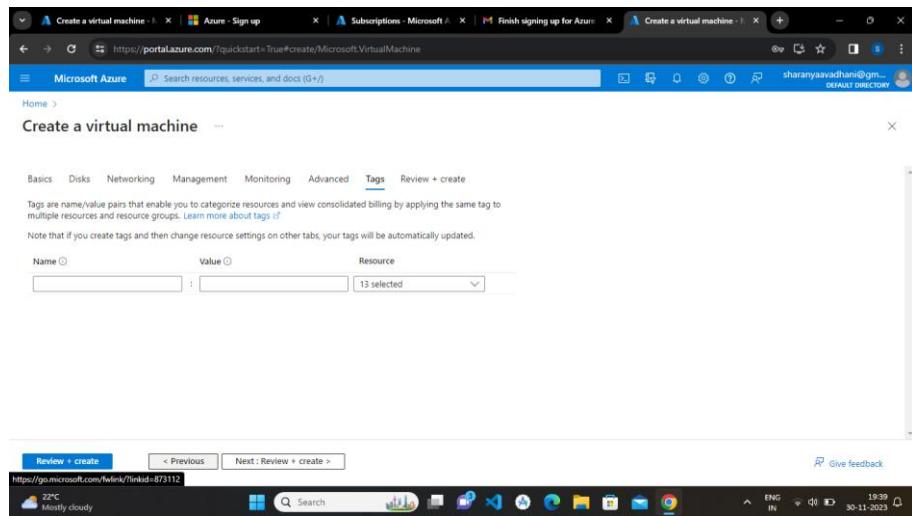
Step:5 Configuring monitoring option for the VM



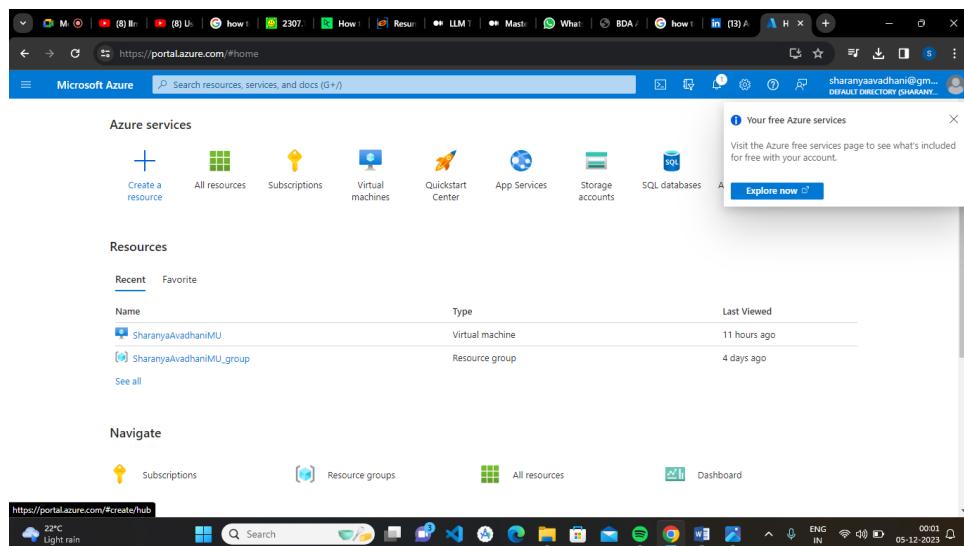
Step:6 Add additional configuration, agents, scripts via virtual machine extensions.



Step:7 creating tags. Tags are the name value pair.



Microsoft Azure Dashboard



Virtual Machine Details

The screenshot shows the Microsoft Azure portal interface for a virtual machine named "SharanyaAvadhanMU". The main content area displays the "Overview" tab of the VM's properties. Key details include:

Property	Value
Resource group (move)	SharanyaAvadhanMU_group
Status	Stopped (deallocated)
Location	South India
Subscription (move)	Free Trial
Subscription ID	7a92128b-2a55-4443-a17b-39100604422b
Operating system	Linux
Size	Standard B1s (1 vcpu, 1 GiB memory)
Public IP address	20.235.145.125
Virtual network/subnet	SharanyaAvadhanMU-vnet/default
DNS name	Not configured
Health state	-

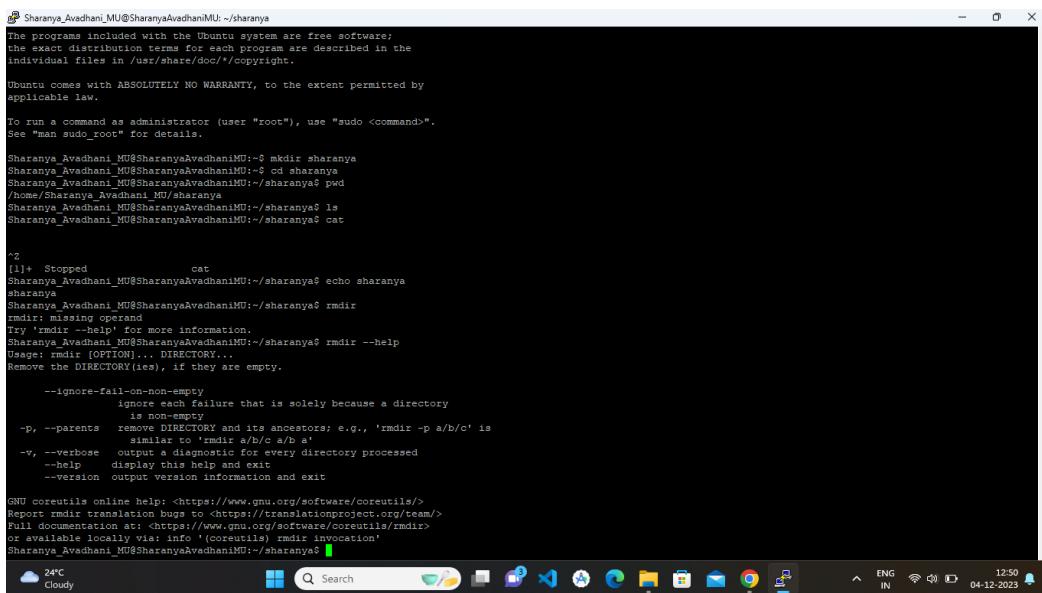
The left sidebar shows navigation links for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Networking, Disks, Size, Microsoft Defender for Cloud, Advisor recommendations, Extensions + applications, and Availability + scaling.

The bottom of the screen shows the Windows taskbar with various pinned icons and the date/time (05-12-2023).

Running sample Program on Linux Instance

Commands executed are:

1. mkdir
2. cd
3. pwd
4. ls
5. echo
6. rmdir



The screenshot shows a terminal window with the following command history:

```
Sharanya_Avadhani_MU@SharanyaAvadhaniMU:~/sharanya
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.

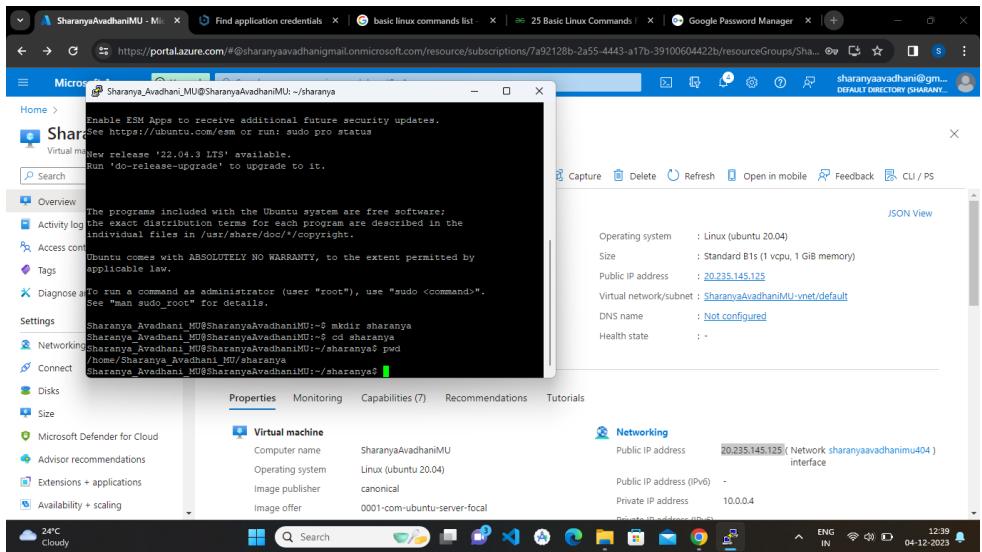
Sharanya_Avadhani_MU$SharanyaAvadhaniMU:~$ mkdir sharanya
Sharanya_Avadhani_MU$SharanyaAvadhaniMU:~$ cd sharanya
Sharanya_Avadhani_MU$SharanyaAvadhaniMU:~/sharanya$ pwd
/home/Sharanya_Avadhani_MU/sharanya
Sharanya_Avadhani_MU$SharanyaAvadhaniMU:~/sharanya$ ls
Sharanya_Avadhani_MU$SharanyaAvadhaniMU:~/sharanya$ cat
Sharanya_Avadhani_MU$SharanyaAvadhaniMU:~/sharanya$ cat

^Z
[1]+  Stopped                  cat
Sharanya_Avadhani_MU@SharanyaAvadhaniMU:~/sharanya$ echo sharanya
sharanya
Sharanya_Avadhani_MU$SharanyaAvadhaniMU:~/sharanya$ rmdir
rmdir: missing operand
Try 'rmdir --help' for more information.
Sharanya_Avadhani_MU$SharanyaAvadhaniMU:~/sharanya$ rmdir --help
Usage: rmdir [OPTION]... DIRECTORY...
Remove the DIRECTORY(ies), if they are empty.

--ignore-fail-on-non-empty
      ignore each failure that is solely because a directory
      is non-empty
-p, --parents   remove DIRECTORY and its ancestors; e.g., 'rmdir -p a/b/c' is
      similar to 'rmdir a/b/c a/b'
-v, --verbose   output a diagnostic for every directory processed
--help          display this help and exit
--version       output version information and exit

GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
Report rmdir translation bugs to <https://translationproject.org/team/>
Full documentation at: <https://www.gnu.org/software/coreutils/rmdir>
or available locally via: info '(coreutils) rmdir invocation'
Sharanya_Avadhani_MU$SharanyaAvadhaniMU:~/sharanya$
```

The terminal window has a black background and white text. It includes standard Linux icons in the title bar and a taskbar at the bottom.



1. ls: The ls command lists the files in the current directory. It is one of the most basic and simple command.
2. Mkdir: create one or more directories specified by the Directory parameter.
3. Pwd: prints the full name (the full path) of current/working directory.
4. Echo: The echo command in Linux is a built-in command that allows users to display lines of text or strings that are passed as arguments.
5. Rmdir: removes the directory, specified by the Directory parameter, from the system.
6. Cd: can be used to change into a subdirectory, move back into the parent directory, move all the way back to the root directory or move to any given directory.

Assignment GitHub Link

<https://github.com/SharanyaAvadhani/BDA-Assignment>

