

#### **Cloud Computing Lab 4:**

## **Deploying Application-I**

Due Date: Tuesday, March 2, 2021 (11:59pm).

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#### **Objective**

Deploying enterprise applications onto virtual machines on VMware platform that are hosted on local machines

## **Equipment, Tools, Hardware, and Software Needed**

1. Desktop PC, Laptop with internet connection.

- 2. VMware Workstation software free downloadable
- 3. Ubuntu (live image) free downloadable. You may download other Operating Systems image.
- 4. Apache2 server, PHP, MySQL server

#### **Theorem**

The deployment of an Enterprise Application one of the important practice in cloud computing. Implementing a multitier application on cloud is a vital job.

In this Lab, we will prepare and deploy a Web/Application/Database application to our VMware platform, as shown in the below Figure 1.

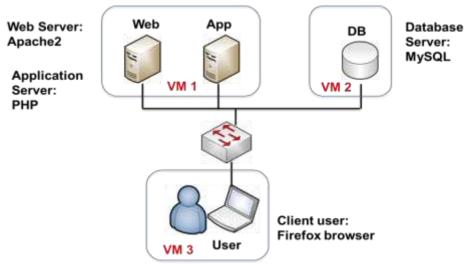


Figure 1 Deploying a Multitier Application



#### **Procedure**

### \*\*\* Note: Use your previous Lab VMs

To do the deployment we have to do the procedure based on the services in sequence:

### First, Web Server - VM 1

Power On VM 1, and do the following installation and implementation steps.

```
sudo apt install apache2
sudo mv /var/www/html/index.html /var/www/html/index.html.bkp
sudo vi /var/www/html/index.html
# press "i" to edit the file, copy and past the following code,
<html>
        <head>
            <title>your_domain website</title>
        </head>
        <body>
            <h1>Hello World!</h1>
            This is the landing page of <strong>VM 1</strong>.
       </body>
</html>
# hit button "esc"
# press ":wq"
Check:
Open the internet browser& type:
VM_1_IP_Address
For example: 192.168.74.130
```



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# Second, Application Server – VM 1

On VM 1, and do the following installation and implementation steps.

y and do the following installation and implementation steps:
sudo apt install php libapache2-mod-php php-mysql
php –v
sudo vi /var/www/html/info.php
# press "i" for editing, and copy & paste the following code:
php phpinfo();</td
# hit button "esc"
# press ":wq"
<u>Check:</u>
Open the internet browser& type:
http:// VM_1_IP_Address /info.php

# Lab Task

1. Report all outputs of all commands on the procedure above in addition to the below configuration settings.



# **Lab Report**

For the lab report, take a screenshots of your VMware Workstation configuration and include Command Line logs for the Virtual Machines as requested in the Lab Task.

