Step 1

Launch the virtual machine

-Microsoft Azure

-UBUNTU server with username and password

-Ports 22(SSH) and 3306(MySQL)

-Create username and password

-Review configs and Create the Virtual Machine

Step 2

Access the Remote Machine via your Terminal

-Using a terminal, "ssh client@52.154.76.162" was used to connect to the new VM

-Enter the set password

-Update the UBUNTU server with "sudo apt-get update"

-Install mysql on the virtual machine with "sudo apt install mysql-server mysql-client"

-Enter mysql typing "sudo mysql"

(Ctrl + D = exits mysql)

Step 3

Create a new user

-CREATE USER ‘dba'@'%' IDENTIFIED BY ‘ahi2020’;

-THEN CONFIRM: select user from mysql.user;

-GRANT ALL PRIVILEGES ON \*.\* TO 'dba'@'%' WITH GRANT

OPTION;

-THEN CONFIRM: show grants for dba;

-After the previous steps, Test local user connection by typing "mysql -u dba -p"

-Enter

Step 4

Create a new database

-Create a new database by typing "Create database e2e;"

-Confirm creation of database by typing "Show databases;"

-Refer to HHA\_504\_E2E.ipynb to load H1N1 data into new database

-Update SQL configs to ensure python code works. Exit mysql and type “sudo nano /etc/mysql/mysql.conf.d/mysqld.cnf”

-Update blind-address to “0.0.0.0”. Ctrl + O to save changes and Ctrl + X to exif config menu

-Restart mysql by typing “/etc/init.d/mysql restart” for changes to take effect

-Confirm that the new database is created by entering mysql.

After that, type

-“show databases;”

-“ use e2e;”

-“ show tables;

Step 5

Create a dump (.sql) backup

-Type “sudo mysqldump e2e > backup\_e2e.sql” to create the backup

Step 6

Move the dump.sql file from the primary machine to a replica

-“scp [user@52.154.76.162:/home/user/dump.sql ./Downloads/](mailto:user@52.154.76.162:/home/user/dump.sql%20./Downloads/)

Step 7

Create a trigger as shown in Trigger\_h1n1concern.sql

IP Address: 52.255.197.152 on Microsoft Azure

**Username: dba (lowercase)**

**Password ‘ahi2020’**

**Database: ‘e2e’**

**Table: ‘H1N1\_Flu\_Vaccines’**