**Problem 1:**

Capture all steps via screen captures when using AWS for the following problem. Fetch a BitNami AMI with Tomcat Stack. That is basically a LAMP machine image.LAMP stands for Linux, Apache, MySQL, PHP. BitNami added a Tomcat installation as well. Such instances are typically used for Web site development.

You should use a **micro instance.**  In the North Virginia region, you should use the AMI: ami-008db468. If you are in another region, and could not locate that particular AMI, please look for a similar BitNami RedHat Tomcat stack AMI. Do not use AMI-s from AWS MarketPlace. They cost more. You are welcome to use another type of AMI if you feel comfortable with that AMI. If you recall, we used a micro instance because it is free of charge. Make sure that the security group you are creating allows traffic on port 22 (for ssh and scp). Add port 80 for HTTP (Web Server default port) and port 443 for https. Check whether you can see anything on port 80 using the DNS address in your web browser. Capture the image of the Web page, if one is present. If you get an error message, recheck your steps. You may not be using an AMI that has Apache Tomcat preloaded when initiated.

* This shows an example of capturing screens in Amazon and then

I describe each step with short sentence. OR you could have a few sentences

which describes a couple of screen shots. You don’t have to describe each individual screen shot.

**Steps:**

Launch an instance in AWS EC2 to create my AMI.



2. Select AMI with LAMP (first one will do): Amazon Linux.



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* Here’s an example that shows commands from within Cygwin.

Note: You don’t have to show steps on installing Cygwin but I generally do so that I can look back in my notes.

Log into my AMI as user: ec2-user using ssh.



* Here’s an example that shows my login session to my AMI. I cut/copied my command from within my Cygwin session and captured a screen shot to show that I was able to log in. Capture the important points and show your work/prove it works. You don’t have to show error messages (please don’t show us what doesn’t work.)
* Login as bitnami user:

ssh -i "Dianes\_cloud\_computing\_2015Key.pem" bitnami@54.158.75.127

Last login: Fri Aug 28 18:16:45 2015 from c-50-133-143-92.hsd1.ma.comcast.net

Red Hat Enterprise Linux Server release 6.6 (Santiago)

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\*\*\* Welcome to the Bitnami ocPortal 9.0.19-0 on RHEL \*\*\*

\*\*\* Bitnami Wiki: <https://wiki.bitnami.com/> \*\*\*

\*\*\* Bitnami Forums: <https://community.bitnami.com/> \*\*\*

[bitnami@ip-10-170-12-61 ~]$ whoami

Bitnami

* Another example:

**Copy my web page files to /mnt:**

[bitnami@ip-10-170-12-61 ~]$ sudo cp /mnt/\*.jpg /opt/bitnami/apache2/htdocs

[bitnami@ip-10-170-12-61 ~]$ sudo cp /mnt/\*.html /opt/bitnami/apache2/htdocs

* Example with code:

Show all your source code and if you used code from the web always reference your sources.

Source code for HelloWorld.java

URL: <http://introcs.cs.princeton.edu/java/11hello/HelloWorld.java.html>

I modified the code to show this and that…

*/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

*\* Compilation: javac HelloWorld.java*

*\* Execution: java HelloWorld*

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*\* Prints "Hello, World". By tradition, this is everyone's first program.*

*\**

*\* % java HelloWorld*

*\* Hello, World*

*\**

*\* These 17 lines of text are comments. They are not part of the program;*

*\* they serve to remind us about its properties. The first two lines tell*

*\* us what to type to compile and test the program. The next line describes*

*\* the purpose of the program. The next few lines give a sample execution*

*\* of the program and the resulting output. We will always include such*

*\* lines in our programs and encourage you to do the same.*

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public class HelloWorld {

public static void **main**(String[] args) {

\*\*\* modified to add my name

System.out.**println**("Hello to Ms. Diane");

}

}