Submission Worksheet

Submission Data

Course: IT490-451-M2025

Assignment: IT490 MQ Test Individual

Student: Jayden M. (jam374)

Status: Submitted | Worksheet Progress: 100%

Potential Grade: 10.00/10.00 (100.00%) Received Grade: 0.00/10.00 (0.00%) Started: 6/6/2025 12:45:45 AM Updated: 6/6/2025 1:00:00 AM

Grading Link: https://learn.ethereallab.app/assignment/v3/IT490-451-M2025/it490-mq-test-

individual/grading/jam374

View Link: https://learn.ethereallab.app/assignment/v3/IT490-451-M2025/it490-mq-test-individual/view/jam374

Instructions

- Walkthrough: https://youtu.be/tqT0ZAxccbQ
- Read all instructions and requirements first
- Use any VM creation tool that gives you root access and persistent storage
 - VirtualBox, Multipass, cloud (Amazon, Google, Azure, etc) (Docker won't be an option here)
 - Create a hostname relevant to the assignment (i.e., test-individual)
 - Create a user of your ucid with a password, ensure relevant permissions
 - Hardward: 1GB Memory, 10GB Hard Drive
 - Install a server version of linux (i.e., Ubuntu Server 24.04)
 - Hint: You may want to get a base install working and use that as a cloning point for quicker destroy/create cycles
- 3. Use the example code from the master branch of https://github.com/MattToegel/IT490
- Connect to the VM with two separate ssh connections
 - Run the RabbitMQServerSample.php file successfully in one instance
 - Run the RabbitMQClientSample.php file successfully in another instance
 - Proper data should be sent/received
- Create a setup.sh script that automates the installation/setup logic
- 6. Fill in the below requirements
- 7. Submit and Export once done
- 8. Upload the PDF to your personal GitHub repo for the class
- 9. Upload the PDF to Canvas

Section #1: (7 pts.) Example Solution

Progress: 100%

Progress: 100%



Details:

- Demonstrate a successful send/receive of the example message
- Hostname should be test-individual or similar
- Username should be your ucid

8 jam374@jam374:~∕IT490–master\$ php RabbitMQServerSample.php Rabbit MQ Server Start processing request Consuming queue processing message Received Request
array(2) {
 ["message"]=>
 string(12) "test message"
 ["type"]=> string(4) "echo" Replying to testQueue.response

This image shows the server being run on the VM

This image shows the server being run on the VM \otimes

This is the first image that shows the client being

run on a separate terminal

 \otimes } ["serialized_properties":protected]=: NULL Lient received response: tdClass Object [return_code] => 0 [m······ge] => Februar (rest RabbitMOClientSample.php END

This is the second image that shows the client

being run on a separate terminal

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₽ Part 2:

Progress: 100%

Details:

· Detail the initial setup experience and note things you had to address in order for the example to work

Your Response:

Getting my VM set up took a lot of time. There were points where certain verisons of my VM

wouldn't function properly, so I had to keep uninstalling and installing until the right verison ended up working out. Eventually, I got the perfect verison for my computer and soon began testing for the assignment.

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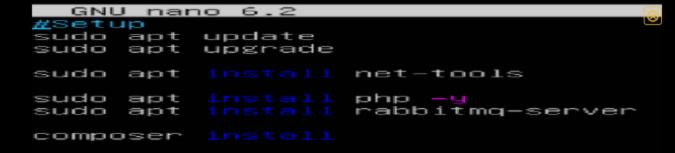
Progress: 100%

Part 1:

Progress: 100%

Details:

 Show a snippet of the setup.sh script you created to automate the installation and configuration steps that lead up to a working example.



Here we have some basic commands on what I needed to install. It's possible that there could've been more I'm forgetting



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Part 2:

Progress: 100%

Details:

Include the direct link to the file from your personal class repository

URL #1

https://github.com/jam374/IT490test



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≡, Part 3:

Progress: 100%

Details:

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briefly explain each step of the process in the script

Your Response:

The VM required some updates, so doing the update and upgrade commands were needed. After that, we installed some net tools for the further use. Then we installed php and RabbitMQ onto the VM to use for testing. Additionally, a composer install was also needed.



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Section #2: (3 pts.) Reflection

Task #1 (1 pt.) - What was the easiest part of this assignment

Progress: 100%

Details:

At least a few solid sentences

Your Response:

The easiest part of this assignment was testing the RabbitMQ files since they were already properly set up. Other than a few necessary changes, the code was perfect and from that point on it was mostly trial and error. I think past experiences with VMs really helped with this.



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Task #2 (1 pt.) - What was the hardest part of this assignment

Progress: 100%

Details:

At least a few solid sentences

Your Response:

The hardest part of this was getting the VM to work. I ran into a lot more problems than I thought and it halted some progress of my work. Certain verisons of VMs wouldn't work or sometimes froze entirely. It got to a point where I was very frustrated, but I figured it later on.

Task #3 (1 pt.) - What did you learn during this assignment

Progress: 100%

Details:

· At least a few solid sentences

Your Response:

I learned from this assignment alone that this course won't be an easy one. I need to make sure I remember everything from this experience and put it into my next assignments. Hopefully, my group assignment can be more simple with helping hands.



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