

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/tgT0ZAxccbQ>
- 1. Read all instructions and requirements first
- 2. 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
 - Hardware: 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>
- 4. 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
- 5. 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%

≡ Task #1 (3.50 pts.) - Working Example

Progress: 100%

Part 1:

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



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≡ Task #2 (3.50 pts.) - Setup Script

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.

```
GNU nano 6.2
#Setup
sudo apt update
sudo apt upgrade

sudo apt install net-tools

sudo apt install php -y
sudo apt install rabbitmq-server

composer install
```

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>



URL

<https://github.com/jam374/IT490>



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⇒ Part 3:

Progress: 100%

Details:

- Briefly explain each step of the process in the script

• 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

Progress: 100%

⇒ 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 versions 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.



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⇒ 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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