

Submission Worksheet

Submission Data

Course: IT490-451-M2025

Assignment: IT490 MQ Test Individual

Student: Jonathan H. (jh699)

Status: Submitted | **Worksheet Progress:** 100%

Potential Grade: 10.00/10.00 (100.00%)

Received Grade: 0.00/10.00 (0.00%)

Started: 6/9/2025 1:23:45 PM

Updated: 6/9/2025 2:17:28 PM

Grading Link: <https://learn.ethereallab.app/assignment/v3/IT490-451-M2025/it490-mq-test-individual/grading/jh699>

View Link: <https://learn.ethereallab.app/assignment/v3/IT490-451-M2025/it490-mq-test-individual/view/jh699>

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%

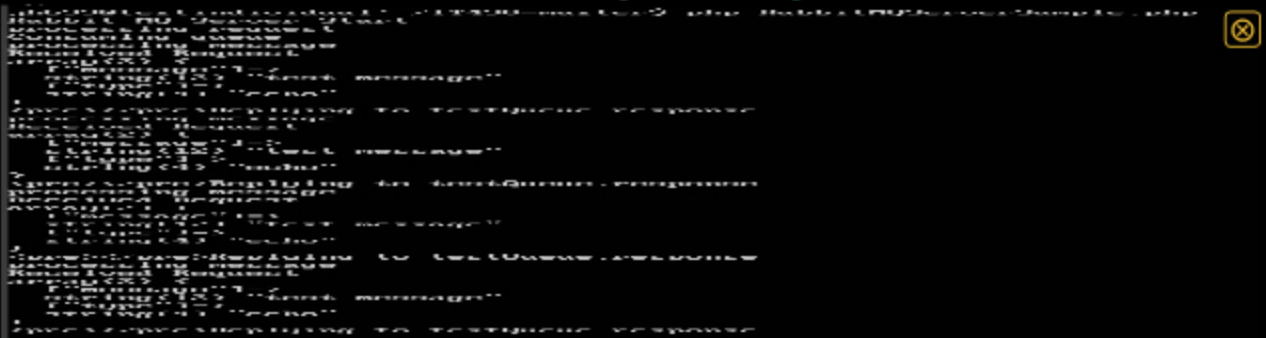
Part 1:

Details:

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



client sending and receiving



server getting message and replying



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Part 2:**Details:**

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

Your Response:

While following the video the hiccups I had to address included ssh not working so I installed it on the server, my network setting for VirtualBox not being set correctly so my groupmates helped me figure out to switch to bridge adapter, and my iso file was incorrect at first so I used a different one which finally allowed me to start working on the assignment.



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Task #2 (3.50 pts.) - Setup Script**Part 1:**

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 2.2
//This is my setup script jh699

apt update -y
apt upgrade -y
apt install -y \
    net-tools \
    unzip \
    ssh \
    nano \
    wget https://github.com/MattTogel/IT490/archive/refs/heads/main.zip
```

my setup.sh script steps



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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/RecoN12803/IT490/blob/main/setup.sh>



URL

<https://github.com/RecoN12803/>



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Part 3:

Progress: 100%

Details:

- Briefly explain each step of the process in the script

Your Response:

For step 1, it includes the first 7 lines to install functions and update them to be ready to use For step 2, the script goes to download the zip file needed to get the folder of files needed to set up the server and client



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Section #2: (3 pts) Reflection

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:

Personally nothing was too easy since I haven't done any command line or deal with Linux too often but easiest would be updating, installing, then using the files to later use the RabbitMQ files.



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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 was probably setting up ssh because I couldn't figure out why my connection was being refused and timed out for about 20 minutes until I asked my groupmate how to figure it out. I even changed my router config to see if there was any issue on my hardware. After figuring out to change to the bridge adapter I still couldn't get ssh working until I searched online and then I checked the ssh status on my VM and it showed that I didn't have ssh installed. Once I installed ssh I was able to progress perfectly fine.



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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:

This whole process was a bunch of relearning concepts with how long I haven't done any Github or coding related work for about a year. Learning to use CLI again was something I needed. This first assignment just helped me to get in the groove of getting used to troubleshooting and learning commands. Other than that there wasn't much I learned since there were other classes that covered similar concepts before.



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