

Submission Worksheet

Submission Data

Course: IT490-451-M2025

Assignment: IT490 MQ Test Individual

Student: Raymond H. (rzh)

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

Potential Grade: 10.00/10.00 (100.00%)

Received Grade: 0.00/10.00 (0.00%)

Started: 6/10/2025 3:02:03 AM

Updated: 6/10/2025 3:17:43 AM

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

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

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:

Progress: 100%

Details:

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

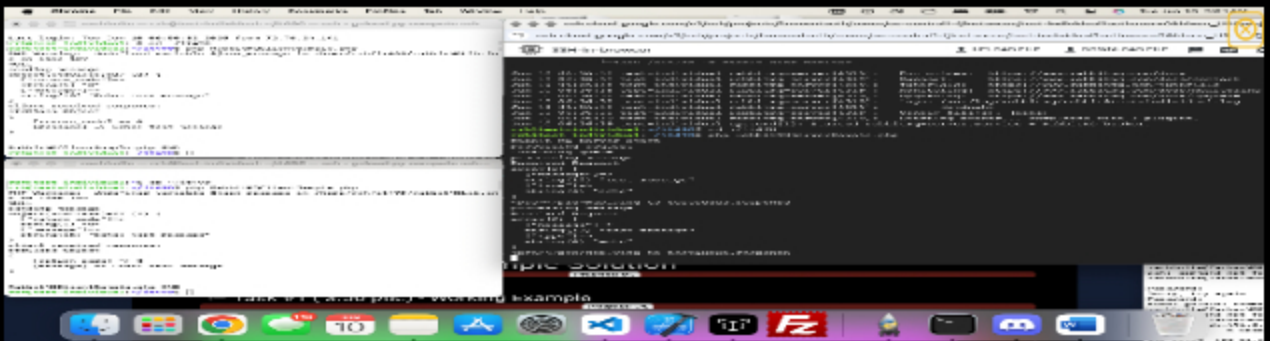



Image displays 2 terminals sending 1 message each called "test message". My username is rzh and my Hostname is test-individual

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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:

I had to fix the composer.json. The error I got was:

"./composer.json" does not match the expected JSON schema:

- type : Does not match the regex pattern `^[a-z0-9-]+$`

This was because there was a hyphen in the type in the composer.json file. I changed it to "project" so I can run composer install to finish up the set up.

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Task #2 (3.50 pts.) - Setup Script

Progress: 100%

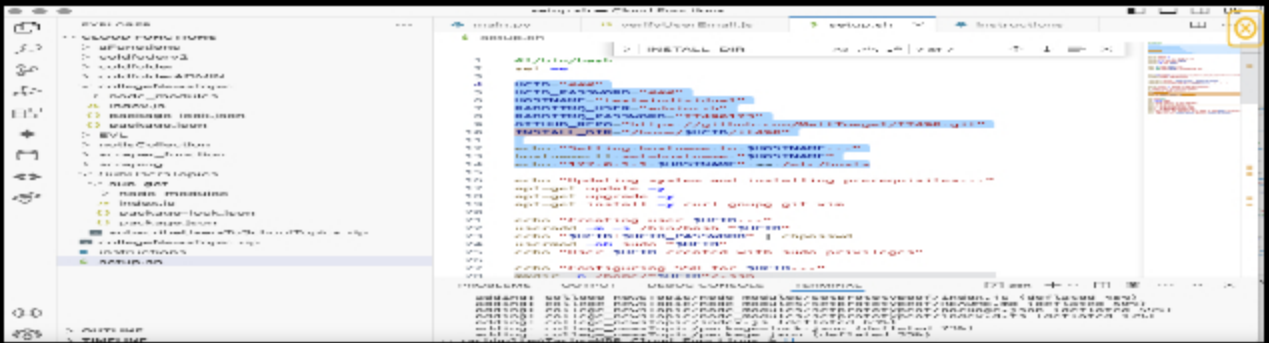
Part 1:

Progress: 100%


Details:

- Show a snippet of the `setup.sh` script you created to automate the installation and

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



The highlighted part displays the variables needed to install RabbitMQ and add the correct directories

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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/ray11235/IT490>



URL

<https://github.com/ray11235/IT490>

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Part 3:

Progress: 100%

Details:

- Briefly explain each step of the process in the script

Your Response:

The `#!/bin/bash` line specifies that the script uses the Bash shell, while `set -e` ensures the script exits if any command fails, providing a safeguard against errors. Variables like `UCID="###"`, `UCID_PASSWORD="###"`, `HOSTNAME="test-individual"`, `RABBITMQ_USER="adminrz"`, `RABBITMQ_PASSWORD="IT490123"`, `GITHUB_REPO="..."`, and `INSTALL_DIR="/home/$UCID/it490"` are defined to set up the user, credentials, and directory paths for the setup process. The script then proceeds with steps such as setting the hostname, updating the system, creating the user, configuring SSH, installing Erlang and RabbitMQ, setting up PHP and Composer, cloning the IT490 repository, and configuring the firewall, all while providing progress messages and final instructions for testing the RabbitMQ setup. And the only reason I even was able to do this was because my job uses this exact kind of file.

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 the assignment was creating a VM through google cloud. The only unfortunate thing was that I ran out of credits and had to pay out of pocket. It's just a few cents though, 0.05 cents an hour! Another easy part was sending messages to the server through the VM i created.



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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 the assignment was creating the setup script and actually getting it to work. I spent hours trying to figure out why i kept getting `./setup.sh: line 58: cd /home/rzh/it490/Master/RabbitMQSample: No such file or directory` and why the `composer.json` script wasn't working. Although I could have got it to work without editing the `composer` but I was having a mental breakdown and I gave up and just changed the type to "project" (one word with no special characters).



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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 how to better write a setup script. These scripts make our lives a lot easier and smoother. I also learned how to create a cool VM through google cloud!



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