Submission Worksheet

Submission Data

Course: IT490-450-M2025
Assignment: IT490 MQ Test Individual
Student: Adriel Z. (ajz27)
Status: Submitted | **Worksheet Progress:** 100%
Potential Grade: 10.00/10.00 (100.00%)
Received Grade: 0.00/10.00 (0.00%)
Started: 6/5/2025 8:22:05 PM
Updated: 6/5/2025 8:43:37 PM
Grading Link: https://learn.ethereallab.app/assignment/v3/IT490-450-M2025/it490-mq-test-individual/grading/ajz27
View Link: https://learn.ethereallab.app/assignment/v3/IT490-450-M2025/it490-mq-test-individual/view/ajz27

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
    - 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
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%

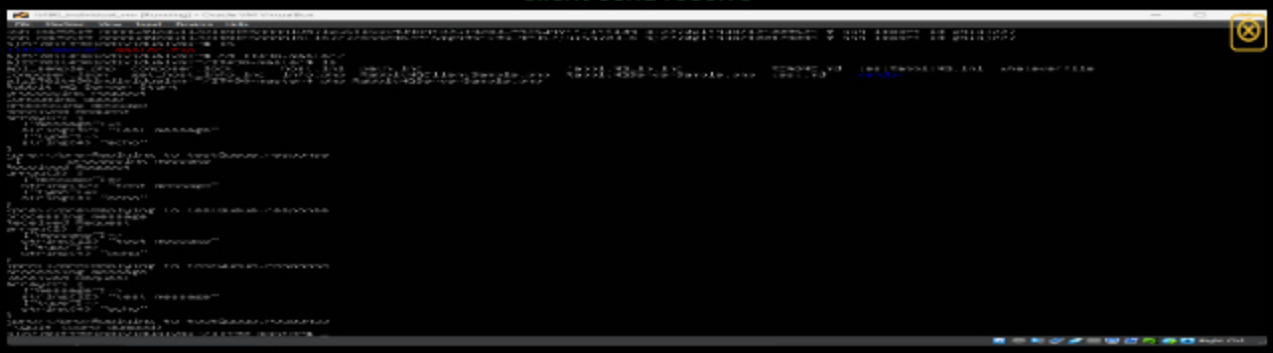
Part 1:

Progress: 100%

Details:

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

client send receive



server receive

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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:

Problems were with trying to SSH into the machine. VirtualBox was not configured correctly for SSH and by default the ssh service was not running on the Ubuntu machine.

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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.

setup script

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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/ajz27/ajz27-IT490-SU25/blob/main/setup.sh

URL
https://github.com/ajz27/ajz27-IT

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Part 3:

Progress: 100%

Details:

- Briefly explain each step of the process in the script

Your Response:

step 1 is to install net tools step 2 is to get the files from the repository step 3 is to enable and configure ssh step 4 is to install php step 5 is to install and update composer step 6 is to run the server sample

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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 was the script. I have no issue with writing setup scripts.

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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 getting SSH to work properly. It required a bit of lookup to configure both teh machine and the VirtualBox instance properly.

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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 set up, install, and run VMs. I also learned how to set up SSH configuration and port forwarding to access the VM on the host. Finally, I learned how to write setup scripts to automate all the tasks easily.

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