Submission Worksheet

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IT490-450-M2024 - [IT490] Module 2 Individual Research and Example

Submissions:

Submission Selection

1 Submission [active] 5/31/2024 9:27:11 AM

Instructions

^ COLLAPSE ^

Overview Video: https://youtu.be/tzk4ewLSaDI

- 1. Create a new branch following the desired branch name and replace ucid with your ucid
- Investigate a few vendors (i.e., Google, Amazon, Microsoft, Oracle) and explore their Virtual Machine instance offerings (like EC2 instances)
 - Requirements to look for (note: Heroku won't be an option)
 - 1. Affordability (or Free tier rules) and offered free credits for a specific duration
 - 2. Ubuntu is an option
 - You have root access
 - You can control the firewall rules
 - Ensure you can have multiple VMs managed under the same "free credit" quota (usually you can)
- Create 1 VM under your chosen cloud provider
- Get the example code working and capture evidence of it working
- Fill in the below deliverables
- Export the PDF and add it to this branch
- Add/commit/push your changes
- 8. Create a pull request for this branch and merge the code to the primary branch
- Upload the PDF to Canvas
- You may want to turn off your server so you don't waste any quota once you're done

Branch name: M2-Example-ucid

Tasks: 7 Points: 10.00



Task #1 - Points: 1

Text: Mention the Vendors you explored and some pros/cons for each that affected your decision

Checklist		*The checkboxes are for your own tracking
#	Points	Details
#1	1	At least two vendor options compared
#2	1	Clearly shows pros/cons (3 of each)

Response:

The two vendors I looked at were Amazon Web Services and Micorsoft Azure. Microsoft Azure Pros: Azure Virtual Machines free for 12 months, have small experience with Azure, option of Windows or Linux Microsoft Azure Cons: root user is typically disabled by default, need to switch to root user, firewall is not free Amazon Web Services Pros: have root access, uses Ubuntu, easy to use Amazon Web Services Cons: data transfer: 1.0 GB are always free per month, Elastic Compute Cloud: 750.0 Hrs for free for 12 months, need to pay attention to these so I don't have to pay for each month



Task #2 - Points: 1

Text: Which vendor option did you go with and why?

Checklist		*The checkboxes are for your own tracking
#	Points	Details
#1	1	Vendor mentioned
#2	1	Clear reason for choice

Response:

I chose Amazon Web Services as my vendor. This is because it was user friendly and easy to figure out how to use. I also didn't have to download anything to use or access it. Also, I can connect using EC2 instance connect on the web and use Ubuntu instead of connecting to my laptop's command prompt or Gitbash.



Task #3 - Points: 1

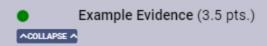
Text: How do you plan to manage your usage quota? (Also mention the quota)

Checklist		*The checkboxes are for your own tracking
#	Points	Details

#1	1	Quota limit is mentioned clearly (what are your restrictions)
#2	1	Logical handling of quota mentioned (i.e. does the vendor provide an automated way, will it be manual, etc)

Response:

The quota limit for Amazon Web Services are 50,000 AMIs, 5 EC2-VPC Elastic IPs, 10,000 Launch template versions and 5,000 Launch templates. On AWS there is a way to check your service quotas. I plan to use that as well as manually calcualte it.





Task #1 - Points: 1

Text: Screenshot of the sample request being published and receiving a reply

Details:

This is the publisher perspective

#1) Valid Request sent (you may need to modify the code to show this)



Caption (required) <

Describe/highlight what's being shown showing valid request sent

Explanation (required) <

Explain what was edited to get this to show



I edited the echo message for the data being sent and the message being sent.

#2) Valid Response Received



Caption (required) <

Describe/highlight what's being shown showing response received



Task #2 - Points: 1

Text: Screenshot of the consumer receiving the request and replying back

Details:

This is the consumer perspective

#1) Valid Request Received



```
processing message
Received Request
array(2) {
    ["message"]=>
    string(12) "test message"
    ["type"]=>
    string(4) "echo"
}
Replying to testQueue.response
```

Caption (required) <

Describe/highlight what's being shown showing valid request received

#2) Valid Response sent (you may need to modify the code to show this on the terminal)



Caption (required) <

Describe/highlight what's being shown showing valid response sent

Explanation (required) <

Explain what was edited to get this to show

EDIT RESPONSE

I edited the echo message to print the response being sent and return response.

Discussion (2 pts.)



Task #1 - Points: 1

Text: What issues did you face and how did you resolve them?

Checklist		*The checkboxes are for your own tracking
#	Points	Details
#1	1	At least one issue clearly mentioned
#2	1	Clear solution mentioned for issue(s)

Response:

An issue I faced was at first the client and server were not sending and recieving the message. To resolve it I used the

SSH link instead of the HTTP link and created a SSH key in GitHub. After completing that, the client and server were working. Another issue I faced was figuring out how to modify the code to show a valid request sent and valid repsonse sent. To resolve it I tried to visualize the client and server tallking to each other and who would send and recieve the message.



^COLLAPSE ^

Task #1 - Points: 1

Text: Pull Request Link for this assignment (should end in /pull/#)

Details:

Valid pull request that ends in /pull/#

URL #1

Missing URL

End of Assignment