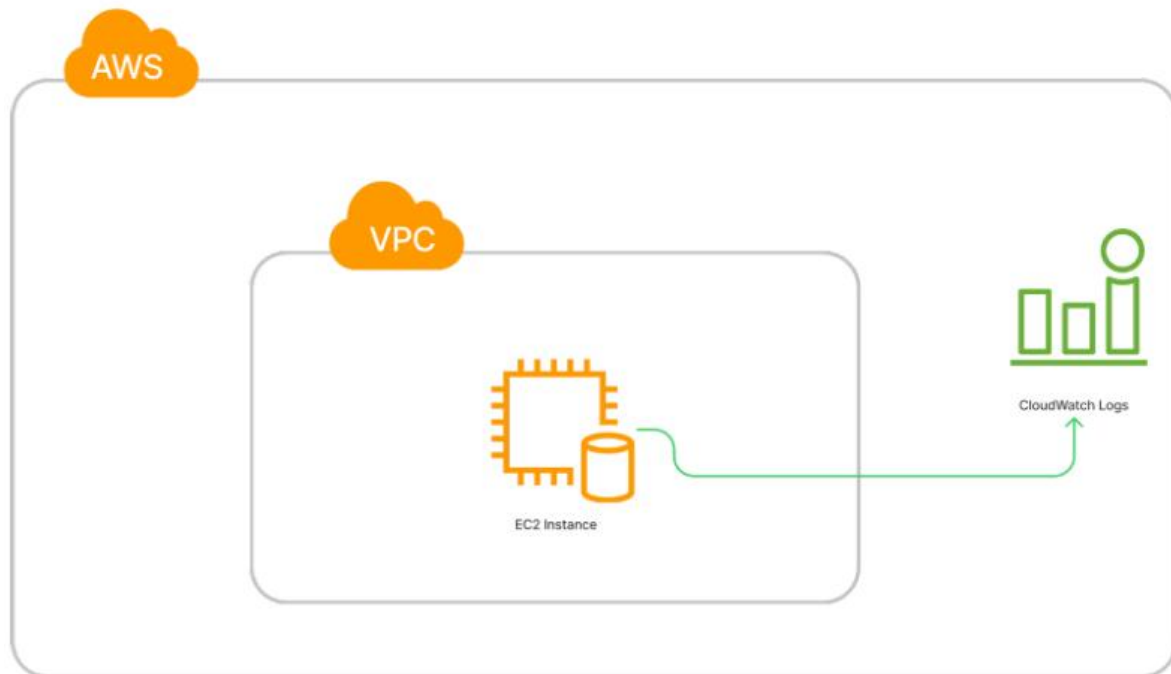


Assignment 12

Ques 1: Follow Up the below AWS Architecture Diagram and Create the same in AWS, after created store the cloudwatch logs in the logs.txt file.



Create a iam role in the iam service and give the cloudwatchadminpolicy and attaching it to the ec2 instance & start apache2 server

1. To install the CloudWatch Agent on Ubuntu, you can follow these steps: Download the CloudWatch Agent package from the AWS website using the following command

curl -O <https://s3.amazonaws.com/amazoncloudwatch-agent/ubuntu/amd64/latest/amazon-cloudwatch-agent.deb>

2. Install the CloudWatch Agent package using the following command: **sudo dpkg -i amazon-cloudwatch-agent.deb**
3. Configure the CloudWatch Agent by creating a configuration file. You can use the CloudWatch Agent Configuration Wizard to create a configuration file, or you can create a custom configuration file.
4. **sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-agent-config-wizard**

```
ubuntu@ip-172-31-84-128:~$ sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-agent-config-wizard
=====
Welcome to the Amazon CloudWatch Agent Configuration Manager
=====
CloudWatch Agent allows you to collect metrics and logs from
your host and send them to CloudWatch. Additional CloudWatch
charges may apply.
=====
On which OS are you planning to use the agent?
1. linux
2. windows
3. darwin
Default choice: [1]:
The value is not valid to this question.
Please retry to answer:
```

5. **sudo apt-get update -y install collectd to save the logs file**

6. **sudo apt-get install collectd**
7. This configuration file collects CPU, disk, memory, and StatsD metrics. Start the CloudWatch Agent using the following command: **sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-agent-ctl -a fetch-config -m ec2 -c file:/opt/aws/amazon-cloudwatch-agent/bin/config.json -s**
8. This command starts the CloudWatch Agent and fetches its configuration from the specified configuration file and check the status.
9. **sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-agent-ctl -a status**
10. After completing these steps, the CloudWatch Agent should be installed and running on your Ubuntu system, sending metrics to CloudWatch

Log streams		Metric filters	Subscription filters	Contributor Insights	Tags	Data protection - new
Log streams (2)				Delete	Create log stream	Search all log stream
<input type="text" value="Filter log streams or try prefix search"/>		<input type="checkbox"/> Exact match <input type="checkbox"/> Show expired Info		< 1 >		
<input type="checkbox"/>	Log stream	▼		Last event time		
<input type="checkbox"/>	apache.error.log			2023-04-07 14:47:03 (UTC-07:00)		
<input type="checkbox"/>	apache.access.log			2023-04-07 14:47:03 (UTC-07:00)		

11.