**Week 2 – ACF Lab 3 Introduction to EC2**

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**Task 1: Launch an instance**

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Figure 1: Access AWS Management Console

Step 1: Name and Tags

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Figure 2: Create a name and tag for the instance.

Step 2: Application and OS Images (Amazon Machine Image)

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Figure 3: Choose the OS for the instace (Default)

Step 3: Instance type

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Figure 4: Choose the instance type t2.micro (Default).

Step 4: Key pair (login)

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Figure 5: Choose the key pair – vockey.

Step 5: Network settings

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Figure 6: Choose Lab VPC from VPC

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Figure 7: Create a security group and configure name + description and remove exists rule.

Step 6: Configure storage.

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Figure 8: Configure storage (Default setting).

**Step 7: Advanced details**

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Figure 9: Enable stop protection.

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Figure 10: Insert user data.

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Figure 11: Launch the instance and verify status.

**Task 2: Monitor my instance**

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Figure 12: Use the status check tab to see the instance status.

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Figure 13: Use the monitor tab to check instance.

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Figure 14: Get system log from monitor and troubleshoot tab and check the http package install from user data.

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Figure 15: Get instance screenshot from monitor and troubleshoot tab.

Task 3: Update Your Security Group and Access the Web Server

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Figure 16: Get the IPv4 address and attempt connecting to web server.

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Figure 17: Added a new inbound rule in the security group.

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Figure 18: Successfully connect to the instance.

**Task 4: Resize Your Instance: Instance Type and EBS Volume**A screenshot of a computer

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Figure 19: Stop the instance.

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Figure 20: Change instance type to t2.small

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Figure 21: Enable stop protection for instance.

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Figure 22: Modify storage volume to 10 GB

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Figure 23: Restart the instance after resizing the storage.

**Task 5: Explore EC2 Limits**

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Figure 24: Choose Amazon Elastic Compute Cloud (Amazon EC2) from Service Quotas

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Figure 25: Find running on-demand in search bar

**Task 6: Test Stop Protection**

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Figure 26: Attempt to stop the instance.

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Figure 27: Disable stop protection and retry to stop the instance

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Figure 28: Lab submission report

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Figure 29: Lab score after submission.