**FSx ONTAP LAB Practice**

**In this Lab/Project we will verify that FSx is a Shared Storage using FSx NetApp ONTAP Service.**

Architecture

A diagram of a security group

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Created 2 Security Groups, one for Linux Server and other for FSx NetApp ONTAP. We will create 2 EC2 Linux T2.Micro Instance after that we will create shared storage AWS FSx Netapp ONTAP, then we wil connect the shared storage to two EC2 Servers and verify the concept of Shared Storage access.

Steps:-

1. **As we already know how to create Security Group and Linux EC2 Instances, I am not going to cover those in this project.**

I created two Security Group(ServerSG And ONTAPSG) and two Linux Instances (VM1 and VM2).

1. **Creation of AWS FSx NetApp ONTAP File Storage.**

Log into AWS Management Console and Navigate AWS SFx🡪 Click on create File System

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Select which file system we need, then click on next.

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Choose Standard Create

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Enter name, storage capacity(Minimum 1024 GB) select IOPs and Throughput.

**Network and Security Settings**

Select the created Security group for ONTAP

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By default, Encryption will be enabled. Specify Name for VM created by ONTAP

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Default Volume configuration.

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Click on NEXT

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Review and click on **Create file system**.

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1. **Connecting ONTAP With two Virtual Machines.**

Navigate to Volumes in Amazon FSx🡪 Select the created Volume.

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Navigate to volumes in the side bar. Select the volume other than VM\_root. A screenshot of a computer

Description automatically generated Now Click on Attach.

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This is showing us how can we attach this volume to our windows/Linux system.

Now Log into our EC2 Instances from command prompt.

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Now we will attach the SFx volumes.

Create fsx folder

Mkdir /fsx

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Mounting the volume

1. Verification of Shared Storage

Creating file in VM2

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Now verifying the files in VM1 (Other instance)

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Now making changes to same file in VM1 and verifying the changes are visible or not in VM2

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On VM2

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Here by we can conclude that the NetApp ONTAP Shared storage is working as expected and we are successful in setting up the NetApp ONTAP as shared file storage.