Module 10: Hands-On- Creating a Windows Shared File system and Mounting it

Step 1: Create an AWS Managed Microsoft AD before starting off with creating a File System

Select directory type

Directory types

- ● AWS Managed Microsoft AD
- ○ Simple AD
- ○ AD Connector
- ○ Amazon Cognito User Pools

AWS Managed Microsoft AD

With AWS Managed Microsoft AD, you can easily enable your Active Directory-aware workloads and AWS resources to use managed actual Microsoft Active Directory in the AWS Cloud. Workload examples include Amazon EC2, Amazon RDS for SQL Server, custom .NET applications, and AWS Enterprise IT applications such as Amazon WorkSpaces.

Learn more [↗]
View use cases [↗]

Cancel   **Next**

Step 2: Select Standard Edition as this is a practice

Directory information

A managed Microsoft Active Directory domain based on Windows Server 2012 R2. Info

Directory type
Microsoft AD

Edition Info
Microsoft AD is available in the following two editions:

● Standard Edition

Best for small to medium sized businesses.

- 1GB of storage for directory objects
- Optimized for up to 30,000 objects

~USD 86.4000/mo (USD 0.1200/hr)*

* includes two domain controllers, USD 43.2000/mo for each additional domain controller.

○ Enterprise Edition

Best for large businesses.

- 17GB of storage for directory objects
- Optimized for up to 500,000 objects

~USD 288.0000/mo (USD 0.4000/hr)*

* includes two domain controllers, USD 144.0000/mo for each additional domain controller.

Directory DNS name
A fully qualified domain name. This name will resolve inside your VPC only. It does not need to be publicly resolvable.

intellipaat.cf

Admin password
The password for the default administrative user named Admin.

••••••••

Passwords must be between 8 and 64 characters, not contain the word "admin", and include three of these four categories: lowercase, uppercase, numeric, and special characters.

Confirm Password

••••••••

This password must match the Admin password above.

Cancel   Previous   Next

Step 3: Choose the VPC and subnets. Then click **Next**

Choose VPC and subnets

Networking
The VPC that contains your directory. If you do not have a VPC with at least two subnets, you must create one.

VPC Info

Default VPC | vpc-8a0c6cf0 (172.31.0.0/16) ▼

Create new VPC ↗

Subnets Info

No preference ▼

No preference ▼

Create new subnet ↗

Cancel   Previous   Next

Step 4: This is a free trial eligible directory. Do a quick review and click on Create directory. Will take 20 – 40 minutes to create the directory.

Pricing

Edition

Standard

~USD 86.4000/mo (USD 0.1200/hr)*

* Includes two domain controllers, USD 43.2000/mo for each additional domain controller.

Free trial eligible Learn more
30-day limited trial

Cancel   Previous   **Create directory**

Step 5: Now, let's create a FSx file system for Windows File Server

Select file system type

File system options

Amazon FSx for Windows File Server

Amazon FSx for Windows File Server provides simple, fully managed, highly reliable file storage that's accessible over

Step 6: Give a file system name, and choose the Multi-AZ or Single-AZ.

Create file system

File system details

File system name - optional   Info

windows-FSx

Maximum of 256 Unicode letters, whitespace, and numbers, plus + - = . _ : /

Deployment type   Info
- ○ Multi-AZ
- ● Single-AZ
  - ● Single-AZ 2
    Newest, recommended
  - ○ Single-AZ 1

Storage type   Info
- ● SSD
- ○ HDD

Storage capacity   Info

32   GiB

Step 7: Choose the Microsoft AD which got created now. The directory will only show after it is available.

Windows authentication

Choose an Active Directory to provide user authentication and access control for your file system   Info

◉ AWS Managed Microsoft Active Directory

◯ Self-managed Microsoft Active Directory

Choose an AWS Managed Microsoft AD directory to use.   Info

| intellipaat.cf | d-9067727165 (vpc-8a0c6cf0)   ▼ | Create new directory 🔗

Step 8: Review and click on Create file system.

KMS key ID	arn:aws:kms:us-east-1:463413326815:key/d5fd6ebd-f2d7-42f8-9ae5-7b48c0e2ca4b	
Daily automatic backup window	No preference	⊘
Automatic backup retention period	7 day(s)	⊘
Weekly maintenance window	No preference	⊘

Tags

‹ 1 ›

Key	Value
	No data

Cancel   Back   **Create file system**

Step 9: Now, we are going to map the DNS address to a Windows instance. There is already an instance up and running.

Step 10: Start your Windows instance. Go to Change Adapter Settings → Properties → Choose IPv4 and now you will be prompted the dialog box below. Enter the DNS server addresses here.
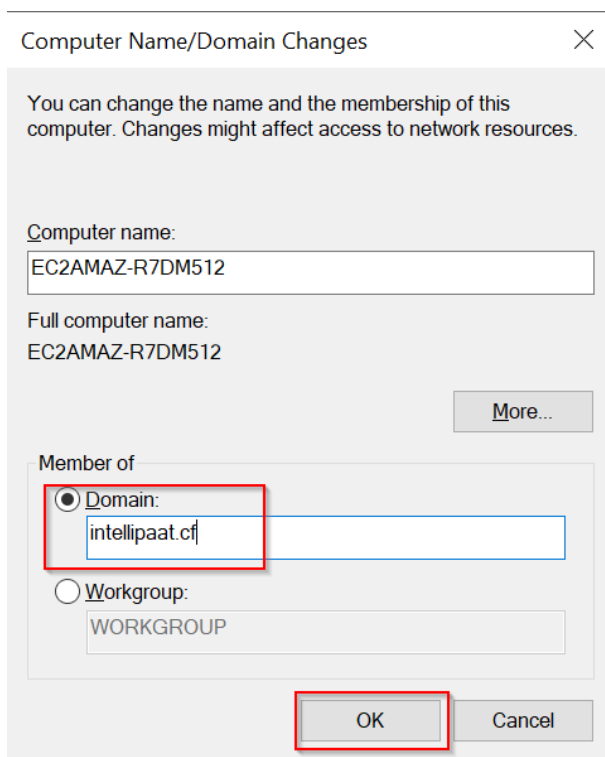
Step 11: After that, open System Properties and click Change
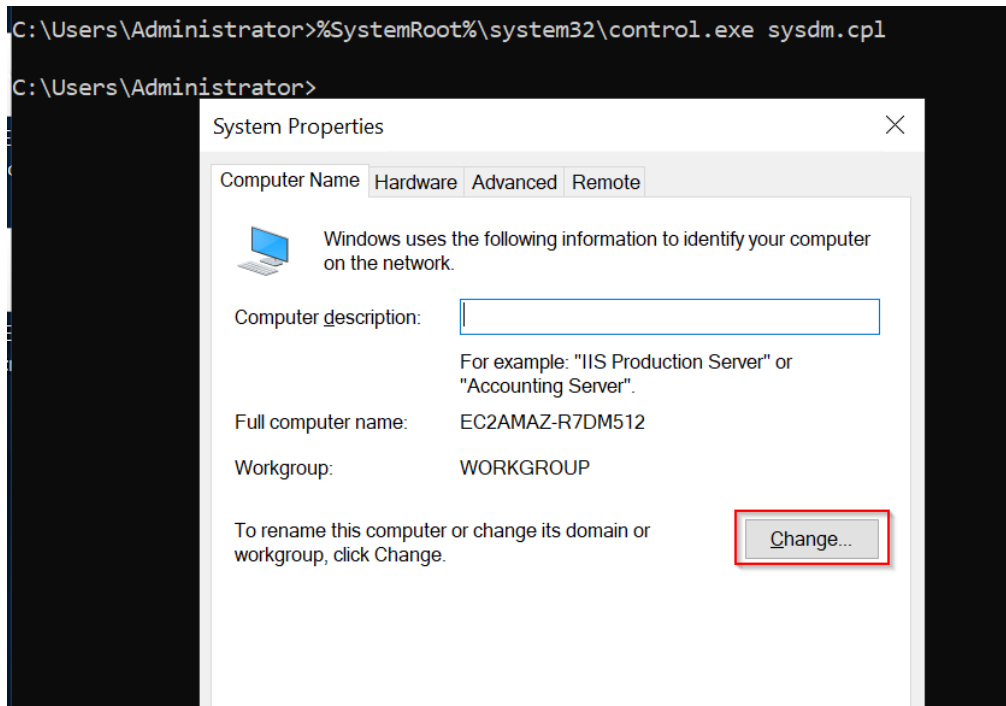
Step 12: Now, enter the domain name of your AD and then click OK

Step 13: You will be prompted to enter your username and password of your AD. Username is usually your **domainname/admin** (Which in this hands-on is intellipaat.cf/admin and then the password you entered while creating an AD). If it is successful, you get the below box.

Computer Name/Domain Changes   ✕

ⓘ   Welcome to the intellipaat.cf domain.

OK

Step 13: We have successfully finished the first step here. Now, your PC would have rebooted. Open your Command Prompt and enter this – net use DriveLetter: \\fsxname.yourdomainname\share. DriveLetter is basically H: or any letter you want to provide.

Attach file system   ✕

▼ **Prerequisites**

1. Choose one of the options below to connect to d-9067727165 ⧉
   ○ Launch new EC2 Windows instance joined to ActiveDirectory ⧉
   ○ Manually join an existing EC2 Windows instance to ActiveDirectory ⧉
2. Connect to EC2 Windows instance ⧉

▼ **Attach instruction**

1. Open a command prompt
2. net use *DriveLetter*: \\amznfsxfqbiseeh.intellipaat.cf\share

▶ **From Linux instances (Amazon EC2, Amazon WorkSpaces, VMware Cloud on AWS)**

Close

This is how you do the step I mentioned in the previous step.

Step 14: We have successfully mounted the FSx file system!