



dem

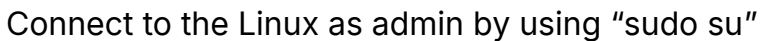
Task-3 : Multi-Cloud Architecture

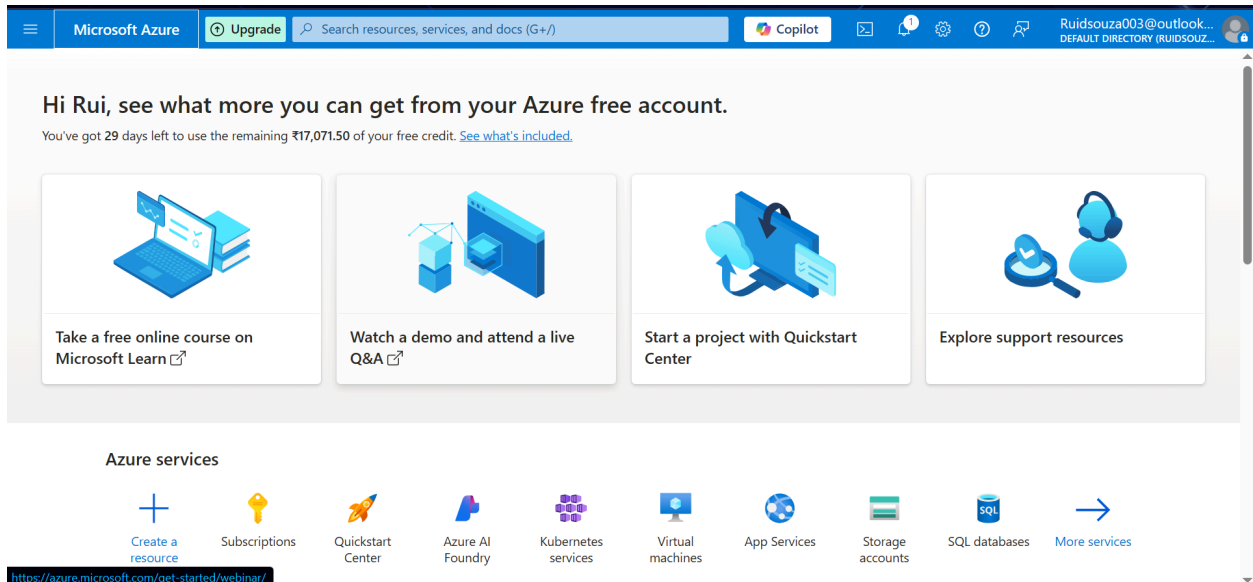
DESIGN A MULTI-CLOUD ARCHITECTURE WHERE SERVICES ARE DISTRIBUTED ACROSS TWO CLOUD PROVIDERS

DELIVERABLE: A DOCUMENTATION AND DEMO SHOWCASING INTEROPERABILITY BETWEEN THE PLATFORMS

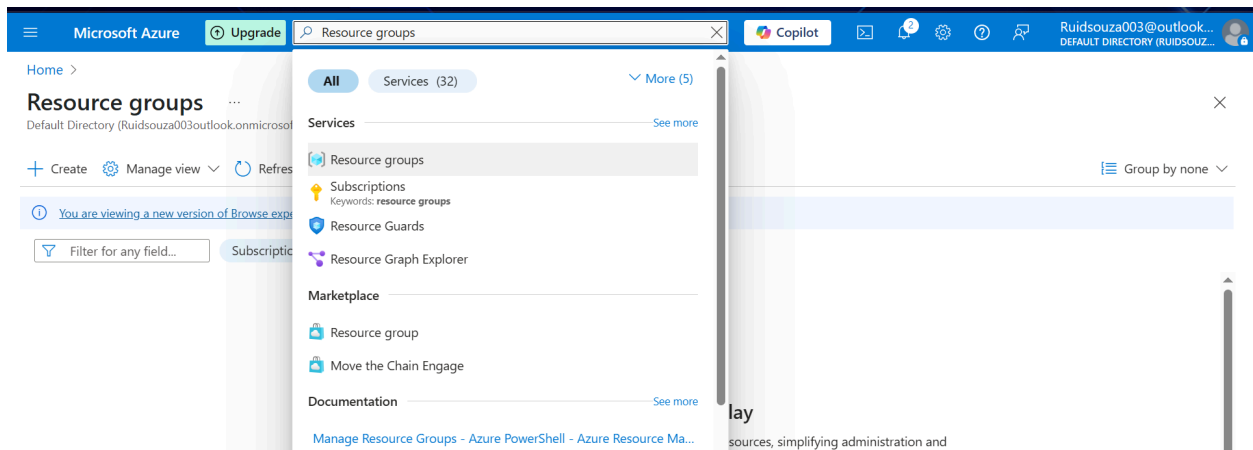
Create a Instance

Here you must allow all network traffic





Now go to the azure portal this is the home page

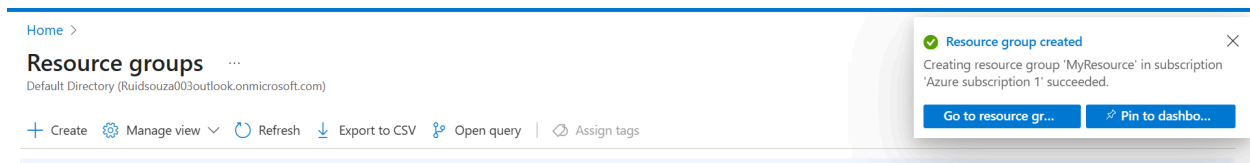


First will create a Resource Group → Search Resource Group → click it

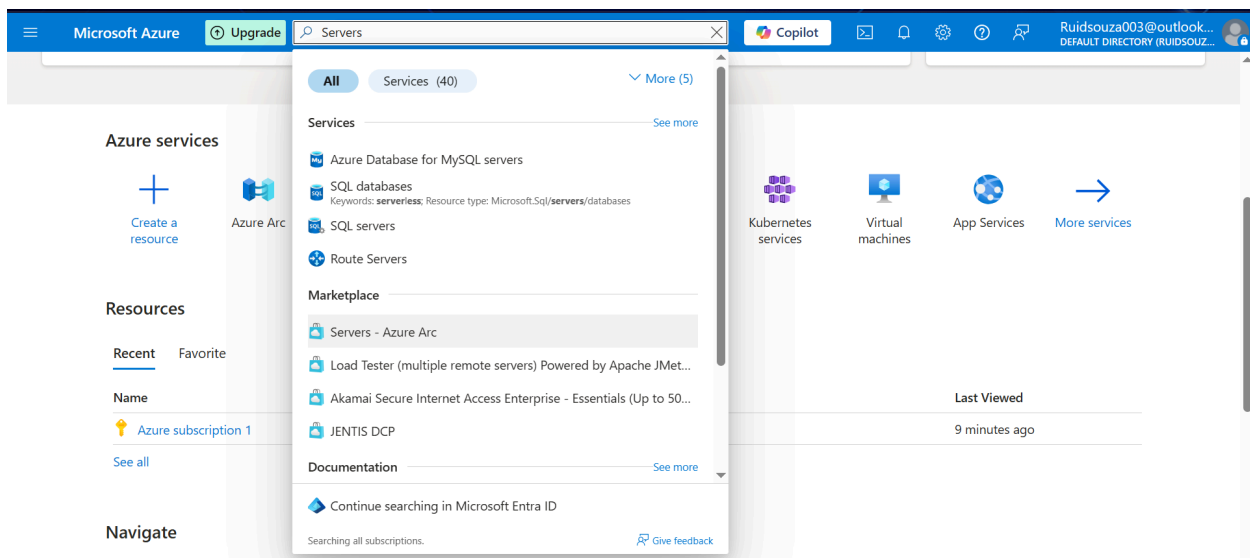
Then just give the name and Regions for it

- Name : MyResource
- Regions: (US) East US

Press create



Group is created



Go to Servers - Azure Arc → click it

Add servers with Azure Arc

Machines - Azure Arc

Azure Arc allows you to use Azure tools to manage on-premises servers and servers from other clouds. We'll start with some prerequisites and deploy the Azure Connected Machine agent. [Learn more](#)

Add a single server

This option will generate a script to run on your target server. The script will prompt you for your Azure login, so this option is best for adding servers one at a time.

[Generate script](#) [Learn more](#)

Add multiple servers

To add multiple servers to Azure, we will generate a script that handles authentication through a service principal. You will see that and other prerequisites next.

[Generate script](#) [Learn more](#)

Add Windows Server with installer

Onboard a single Windows Server with your Azure credentials using an installer that guides you through the process step by step.

[Download installer](#) [Learn more](#)

Go to add a single server → Generate script

Project details

Select the subscription and resource group where you want the server to be managed within Azure.

Subscription * ⓘ	Azure subscription 1
Resource group * ⓘ	MyResource

[Create new](#)

Give the subscription and resource group

Server details

Select details for the servers that you want to add. An agent package will be generated for the selected server type.

Region * ⓘ	(US) East US
Operating system * ⓘ	Linux

Give the Region and OS

Connectivity method





Choose how the connected machine agent running in the server should connect to the Internet. This setting only applies to the Arc agent. Proxy settings for extensions are configured separately.

- Connectivity method *
- ☒ Public endpoint
Connect to the internet directly using default routes on your server. This supports Arc Gateway.
 - ☐ Private endpoint
Connect using an Azure virtual network private endpoint. Requires Express Route or a VPN. Arc Gateway is not supported.

Keep the connectivity as Public

Physical location tags

Start with these options for physical location types, change them to suit your needs, or create your own. If you leave blank for these options, the tags will not be created.

Name		Value	
<input type="text" value="Datacenter"/>	:	<input type="text"/>	
<input type="text" value="City"/>	:	<input type="text"/>	
<input type="text" value="StateOrDistrict"/>	:	<input type="text"/>	
<input type="text" value="CountryOrRegion"/>	:	<input type="text"/>	

Keep this as default

Add a server with Azure Arc ...

```
1
2 export subscriptionId="c3af107c-5f70-4327-a052-ded7502ed6e4";
3 export resourceGroup="MyResource";
4 export tenantId="9098bea6-2fab-4098-bc31-fa3bf0bce03f";
5 export location="eastus";
6 export authType="token";
7 export correlationId="b36ba3b7-259a-4d9f-bde3-82255b272343";
8 export cloud="AzureCloud";
9
10
11 # Download the installation package
12 LINUX_INSTALL_SCRIPT="/tmp/install_linux_azcmagent.sh"
13 if [ -f "$LINUX_INSTALL_SCRIPT" ]; then rm -f "$LINUX_INSTALL_SCRIPT"; fi;
14 output=$(wget https://gbl.his.arc.azure.com/azcmagent-linux -O "$LINUX_INSTALL_SCRIPT" 2>&1);
15 if [ $? != 0 ]; then wget -qO- --method=PUT --body-data="{\"subscriptionId\": \"$subscriptionId\", \"resourceGr
16 echo "$output";
17
18 # Install the hybrid agent
19 bash "$LINUX_INSTALL_SCRIPT";
20 sleep 5;
21
22 # Run connect command
23 sudo azcmagent connect --resource-group "$resourceGroup" --tenant-id "$tenantId" --location "$location" --sub
24
```

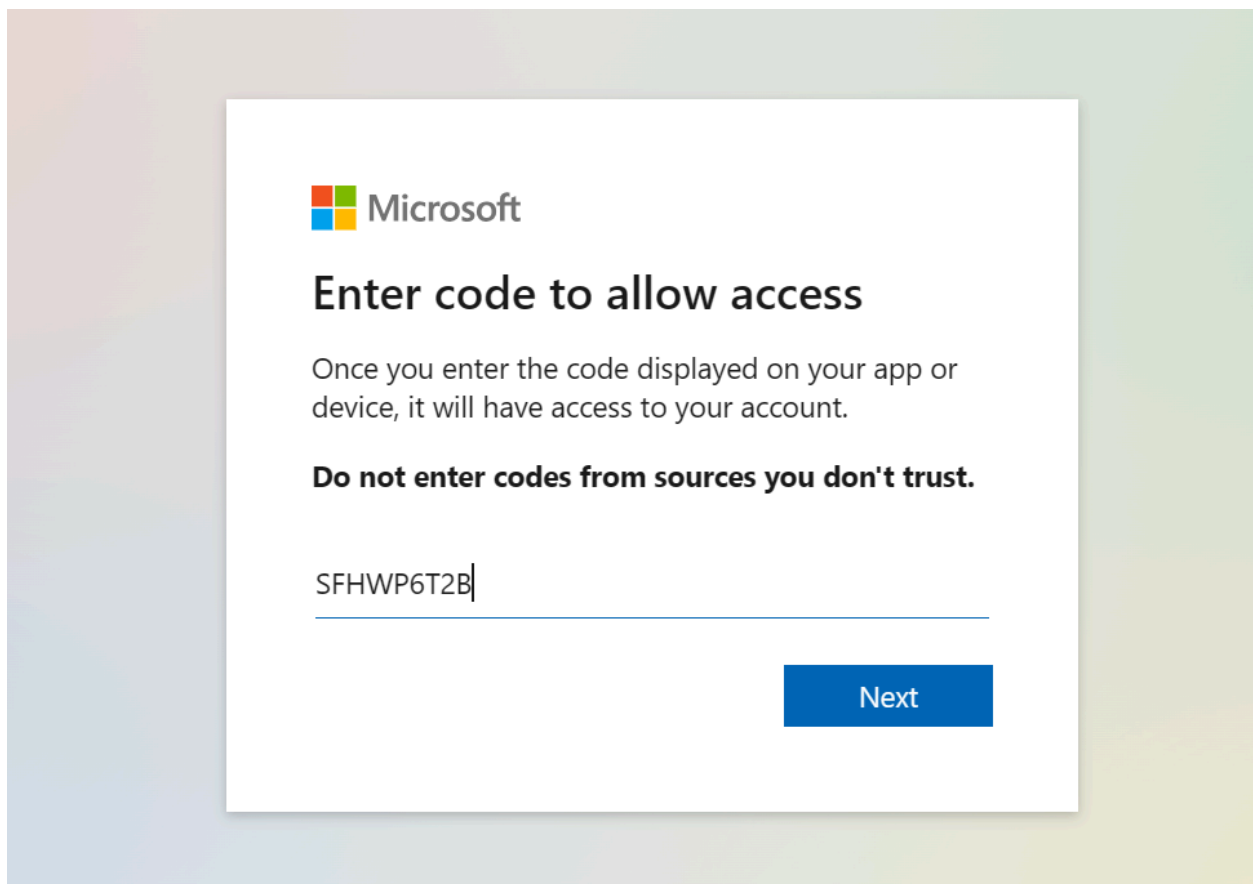
Copy this code → go to aws Linux console

Execute this commands

```
chmod +x azure.sh  
ls  
sh azure.sh
```

```
Latest version of azcmagent is installed.  
INFO Connecting machine to Azure... This might take a few minutes.  
INFO Cloud: AzureCloud  
INFO Testing connectivity to endpoints that are needed to connect to Azure... This might take a few minutes.  
To sign in, use a web browser to open the page https://microsoft.com/devicelogin and enter the code SFHWP6T2B to authenticate.  
20% [==> ]  
30% [===> ]  
INFO Creating resource in Azure... Correlation ID=b36ba3b7-259a-4d9f-bde3-82255b272343 Resource ID=/subscriptions/c3af107c-5f70-4327-a052-d  
icrosoft.HybridCompute/machines/i-04c53c7cb84537d54
```

Copy the https browser link and past it in the browser tab (Note : don't use shortcut to copy the link and code use mouse)

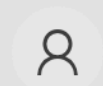


Paste the code given



Pick an account

You're signing in to **Azure Connected Machine Agent** on another device located in **Sweden**. If it's not you, close this page.



Rui Dsouza
Ruidsouza003@outlook.com
Signed in



Use another account

Back

Sign in to you azure account



Azure Connected Machine Agent

You have signed in to the Azure Connected Machine Agent application on your device. You may now close this window.

Here azure Machine is connected

Add a server with Azure Arc ...


```
1
2 export subscriptionId="c3af107c-5f70-4327-a052-ded7502ed6e4";
3 export resourceGroup="MyResource";
4 export tenantId="9098bea6-2fab-4098-bc31-fa3bf0bce03f";
5 export location="eastus";
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19 bash \"$LINUX_INSTALL_SCRIPT\";
20 sleep 5;
21
22 # Run connect command
23 sudo azcmagent connect --resource-group \"$resourceGroup\" --tenant-id \"$tenantId\" --location \"$location\" --sub
24
```

[Previous](#)[Next](#)[Close](#)

Close this → Go to home → Resource Group → click MyResource (Or what group you created)

^ Essentials

[JSON View](#)

Resource group ([move](#)) : [MyResource](#)
Status : Connected
Location ([move](#)) : East US
Subscription ([move](#)) : [Azure subscription 1](#) 
Subscription ID : c3af107c-5f70-4327-a052-ded7502ed6e4
Agent version : 1.53.03069.426

Computer name : ip-172-31-16-172.eu-north-1.compute.internal
FQDN : ip-172-31-16-172.eu-north-1.compute.internal
Operating system : Amazon Linux 2023.7.20250609
Operating system version : 6.1.140-154.222.amzn2023.x86_64
Cloud provider : AWS
Manufacturer : Amazon EC2
Model : t3.micro
Arc gateway : [Add Arc gateway](#)

Tags ([edit](#)) : [Add tags](#)

