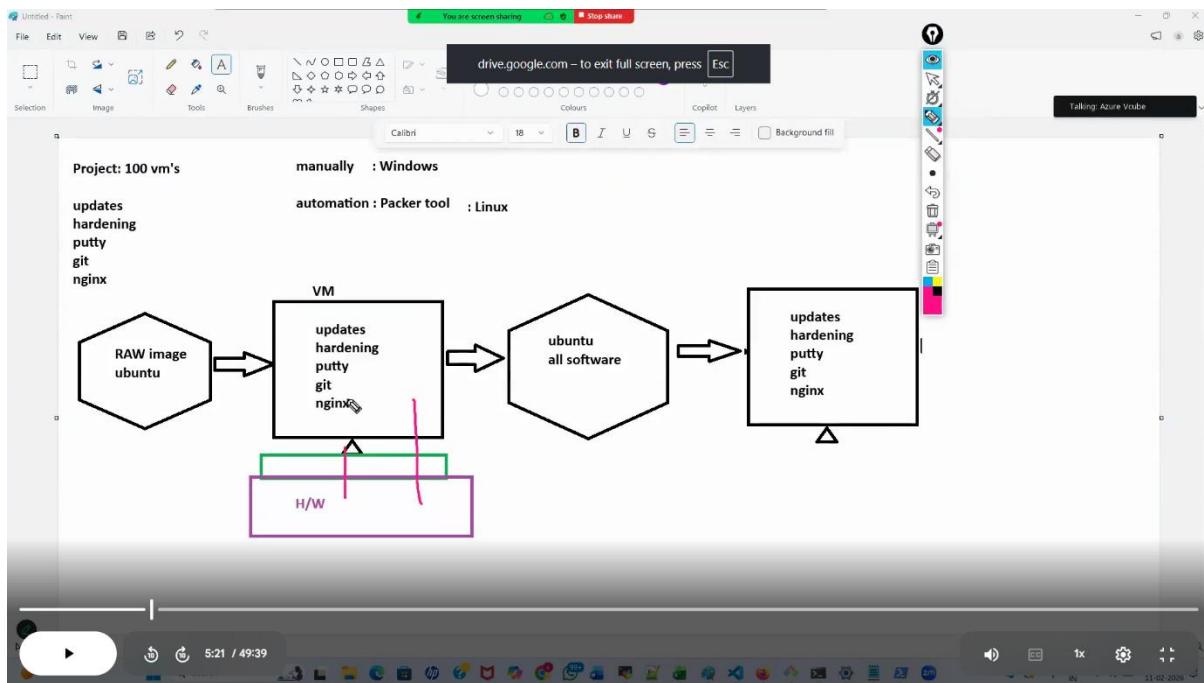


# IMAGE CREATION



**image-vm01** Virtual machine

Overview

Standard HDD OS disks will be retired on September 8, 2028. →

Help me copy this VM in any region | Manage this VM with Azure CLI

**Essentials**

Resource group (move)	: gayatri-rg01	Operating system	: Windows
Status	: Running	Size	: Standard D2s v3 (2 vcpus, 8 GiB memory)
Location	: Canada Central (Zone 1)	Primary NIC public IP	: 4.248.188.12
Subscription (move)	: Azure subscription	Virtual network/subnet	: vnet-canadacentral/snet-canadacentral-1
Subscription ID	: 0551aca3-34e2-471e-be0f-e9a1f6879e00	DNS name	: Not configured
Availability zone	: 1	Health state	: -
Tags (edit)	: Add tags	Time created	: 11/02/2026, 09:22 UTC

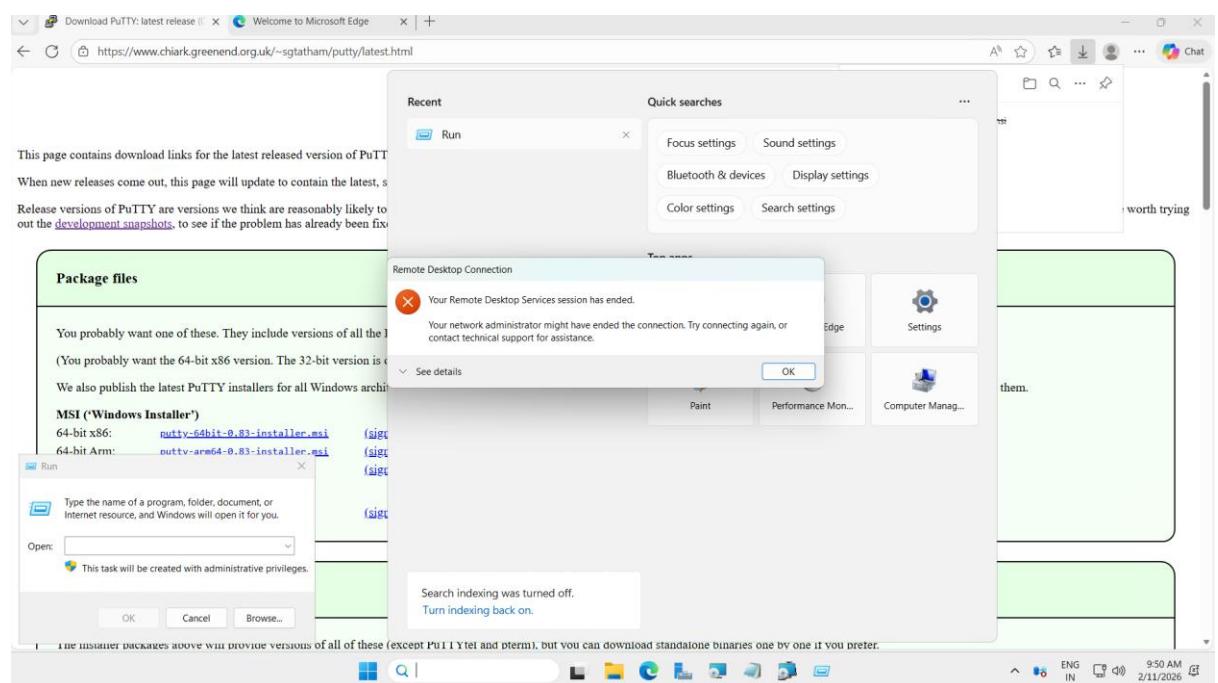
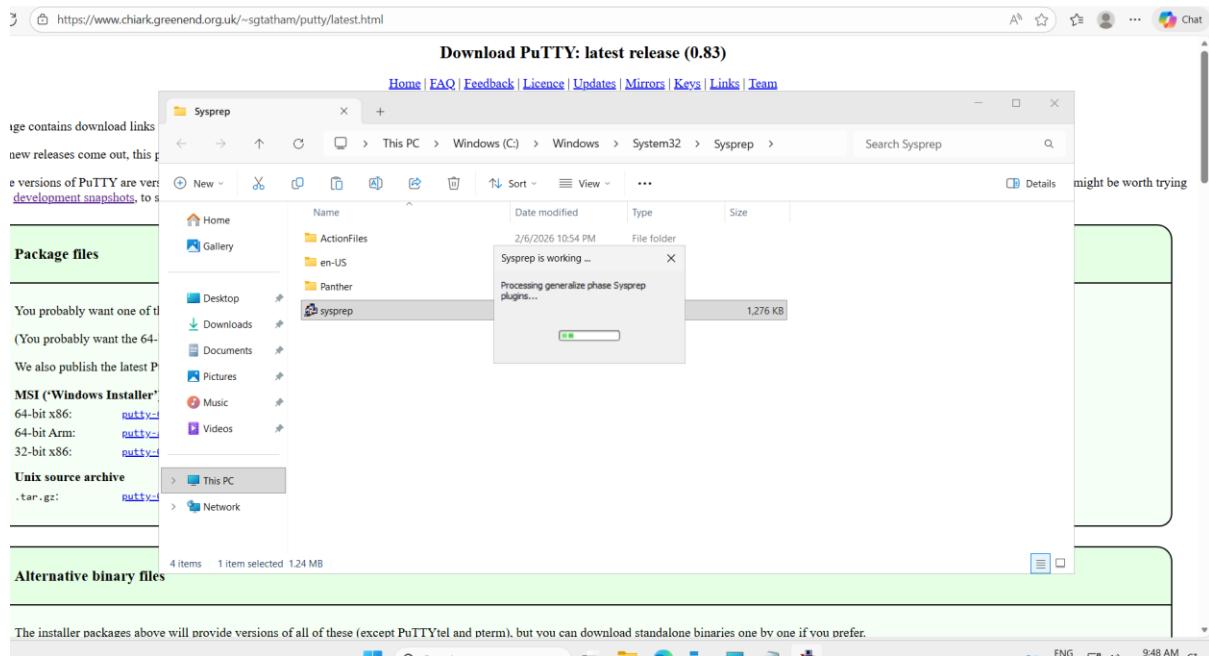
**Properties** **Monitoring** **Capabilities (8)** **Recommendations** **Tutorials**

**Virtual machine**

Computer name	image-vm01	Networking	
Operating system	Windows	Public IP address	: 4.248.188.12 (Network interface image-vm01409_x1)
VM generation	V2	1 associated public IPs	-
VM architecture	x64	Public IP address (IPv6)	-
Agent status	Not Ready	Private IP address	: 172.17.0.4
		Private IP address (IPv6)	-

--Then after we have to connect the website[RDP]

- ✓ By using **SYSPREP [system preparation tool]** shutdown the dependencies
- ✓ Next, we have to install the software [putty] inside the website



The screenshot shows the Microsoft Azure portal interface. The main title bar says "image-vm01 - Microsoft Azure". The left sidebar has a tree view with "image-vm01" selected. The main content area shows the VM details. Under "Essentials", the "Status" is circled in red and labeled "Stopped". In the "Networking" section, it shows a "Public IP address" of 4.248.188.12. The bottom status bar shows the date and time as 11-02-2026, 09:22 UTC.

- We have to created the image
- Automatically delete this virtual machine after creating image

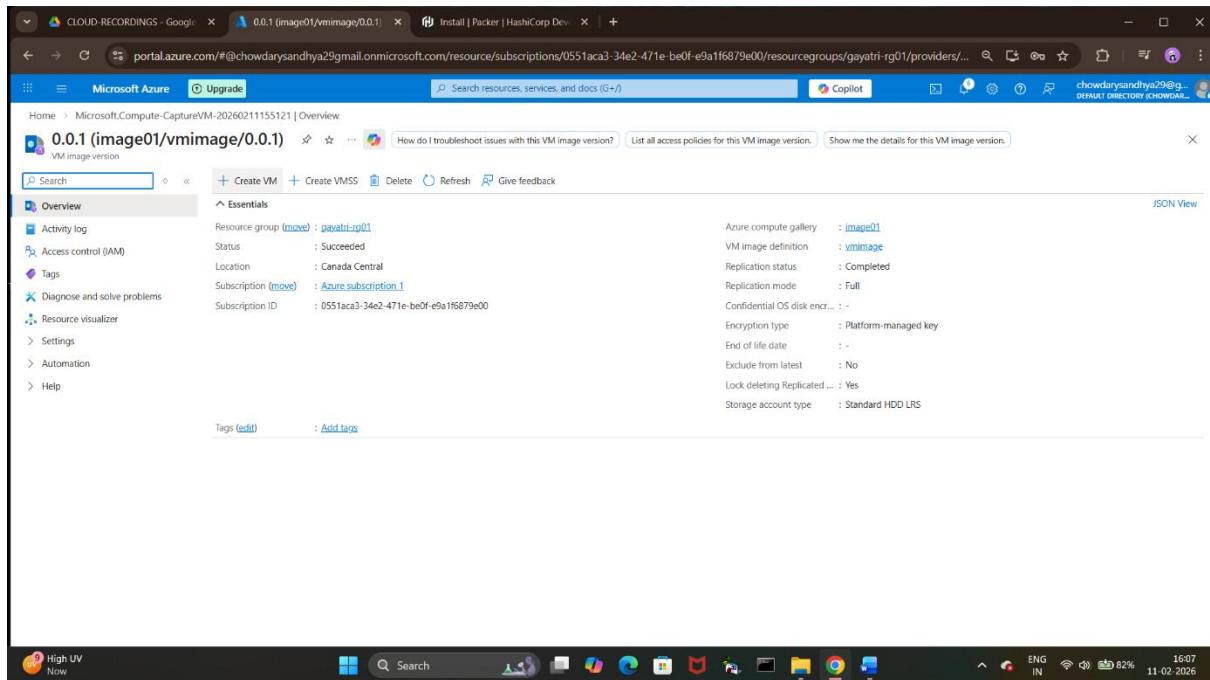
The screenshot shows the "Create an image" wizard in the Microsoft Azure portal. The title bar says "Create an image - Microsoft Azure". The left sidebar shows "image-vm01". The main content area has a green header bar with "Validation passed". Below it, the "Review + create" tab is selected. The "Basics" section contains the following configuration:

- Subscription: Azure subscription 1
- Resource group: gayatri-rg01
- Region: Canada Central
- Share image to Azure compute gallery: Yes
- Automatically delete this virtual machine after creating the image: Yes
- Azure compute gallery: (new) image01
- Operating system state: Generalized
- Target VM image definition: (new) vrmimage
- Version number: 0.0.1
- Source virtual machine: image-vm01
- Exclude from latest: No
- End of life date: None
- Lock deleting Replicated Locations: Yes
- Shallow replication: No

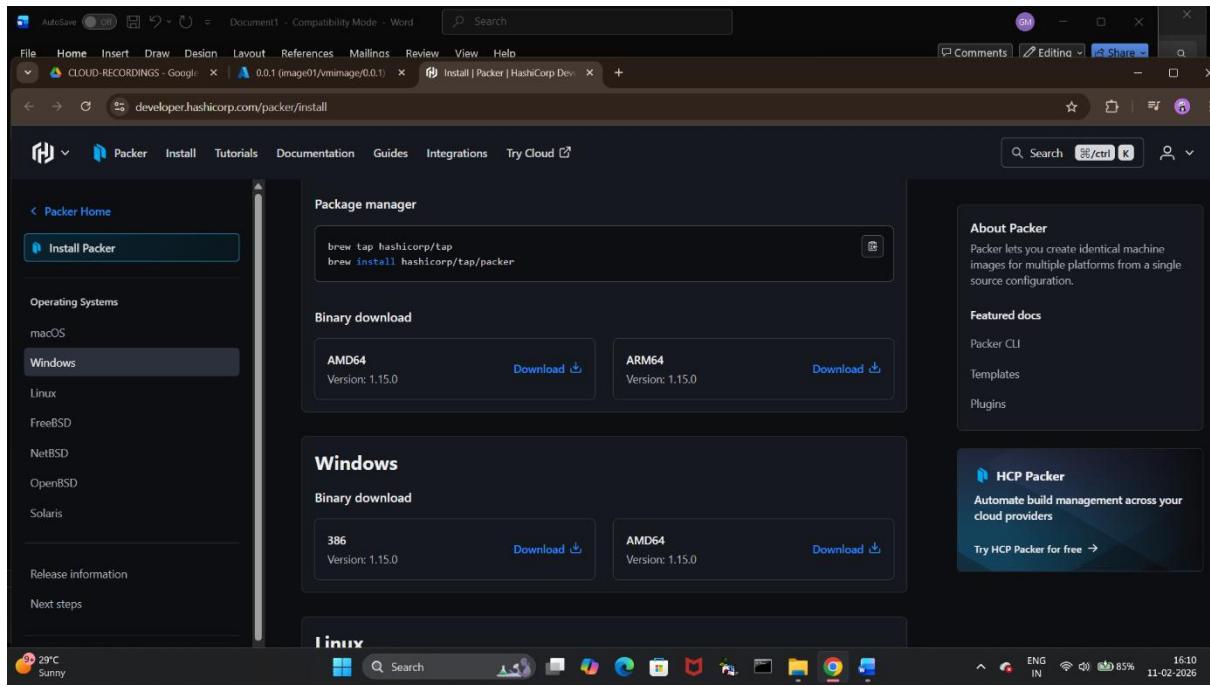
The "Replication" section includes:

- Default replica count: 1
- Replication location: Canada Central

At the bottom, there are "Create" and "Next >" buttons, along with a "Download a template for automation" link. The bottom status bar shows the date and time as 11-02-2026, 15:56 UTC.



We have download the packer on windows machine



- Browse linux image creation packer
- Before we are done manually same should here execution of below code it should be done same thing.

```
{
  "builders": [
    {
      "type": "azure-arm",
      "client_id": "00001111-aaaa-2222-bbbb-3333cccc4444",
      "client_secret": "0e760437-bf34-4aad-9fad-870be799c55d",
      "tenant_id": "aaabbbb-0000-cccc-1111-dddd2222eeee",
      "subscription_id": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxx",
      "managed_image_resource_group_name": "myResourceGroup",
      "managed_image_name": "myPackerImage",
      "os_type": "Linux",
      "image_publisher": "canonical",
      "image_offer": "0001-com-ubuntu-server-jammy",
      "image_sku": "22.04-1ts",
      "azurerm_resource_group_name": "myResourceGroup"
    }
  ],
  "provisioners": [
    {
      "execute_command": "chmod +x {{ .Path }}; {{ .Vars }} sudo -E sh '{{ .Path }}'",
      "inline": [
        "apt-get update",
        "apt-get upgrade -y",
        "apt-get -y install nginx"
      ],
      "path": "/usr/sbin/waagent -force deprovision+user && export HISTSIZE=0 && rm -rf /var/lib/dpkg/info/*.list*",
      "type": "shell"
    }
  ]
}
```

Tell us what you think! Your feedback is essential to us.  
Overall, how satisfied or dissatisfied are you with Microsoft Learn?

## Manage the app registration then we have to see application ,object ,tenant ids

The screenshot shows the Microsoft Azure portal's App registrations page. The application 'register' is selected. Key details shown include:

- Display name: register
- Application (client) ID: 53201a5e-99d1-419c-b499-74724036e60
- Object ID: 6fab331a-eba6-42c8-b33b-91c1d9dfecc8
- Directory (tenant) ID: 73e0a7e6-0ab2-4857-8df1-b961ec559dd
- Supported account types: My organization only
- Client credentials, Redirect URIs, Application ID URI, and Managed application in L... are listed with 'Add...' buttons.

At the bottom, there are two informational messages:

- A welcome message about the new improved App registrations.
- A note stating that starting June 30th, 2020, no new features will be added to the legacy service, and users will need to upgrade to Microsoft Authentication Library (MSAL) and Microsoft Graph.

- ✓ Below image is we have paste{where we have to create the registration} the application ,object ,tenant and the subscription ids

```

1 {
2     "builders": [
3         {
4             "type": "azure-arm",
5             "client_id": "f341e779-4df6-41bd-b901-c4202bb00e74",
6             "client_secret": "4.580-pfety4q0usotVCmvgzCis3uk47AtxFb7o",
7             "tenant_id": "73e0a7e6-0ab2-4857-8df1-b961ec559dd",
8             "subscription_id": "0551aca3-34e2-471e-be0f-e9af0f879e00",
9             "managed_image_resource_group_name": "myResourceGroup",
10            "managed_image_name": "myPackerImage",
11            "os_type": "linux",
12            "image_publisher": "canonical",
13            "image_offer": "0001-com-ubuntu-server-jammy",
14            "image_sku": "2_04-lts",
15            "azure_tags": {
16                "dept": "Engineering",
17                "task": "Image deployment"
18            },
19            "location": "East US",
20            "vm_size": "Standard_D5_V2"
21        }
22    ],
23    "provisioners": [
24        {
25            "execute_command": "chmod +x {{ .Path }}; {{ .Vars }} sudo -E sh '{{ .Path }}'",
26            "inline": [
27                "apt-get update",
28                "apt-get upgrade -y",
29                "apt-get -y install nginx",
30                "/usr/sbin/waagent -force -deprovision-user && export HISTSIZE=0 && sync"
31            ],
32            "inline_shbang": "/bin/sh -x",
33            "type": "shell"
34        }
35    ]
36 }

```

- ✓ Authentication we have configure, now we have to configure the authorization.
- ✓ We have to add the role because, registration[user] it should rights to execute the subscription

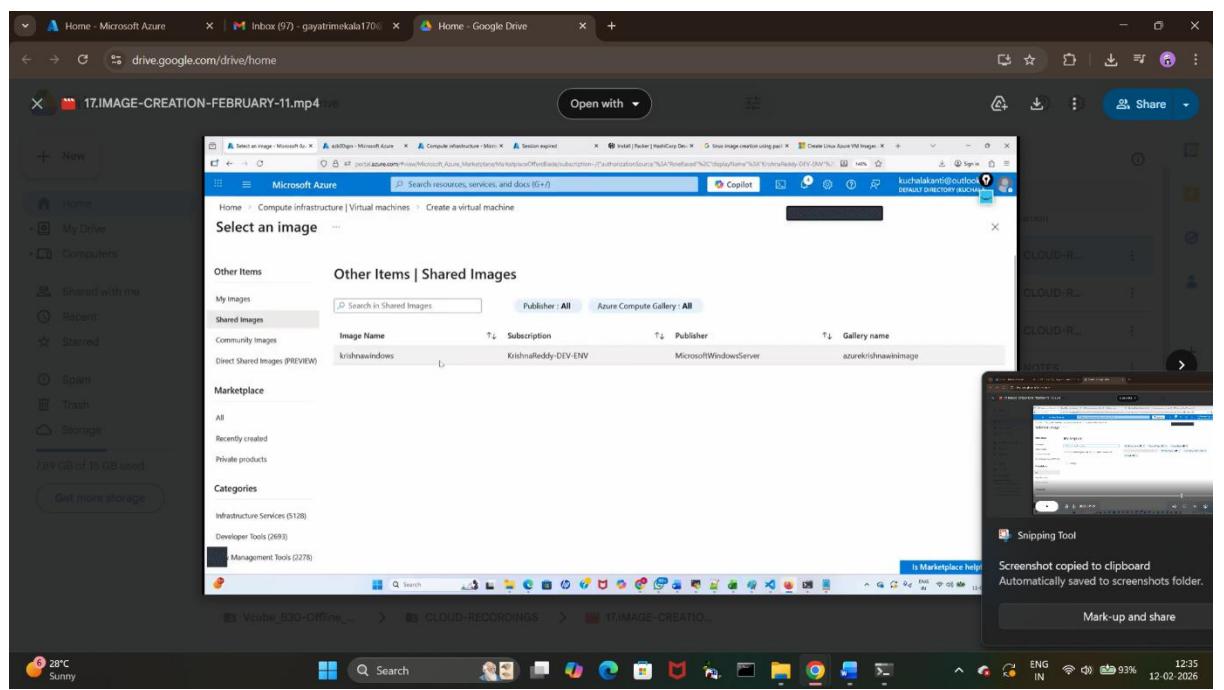
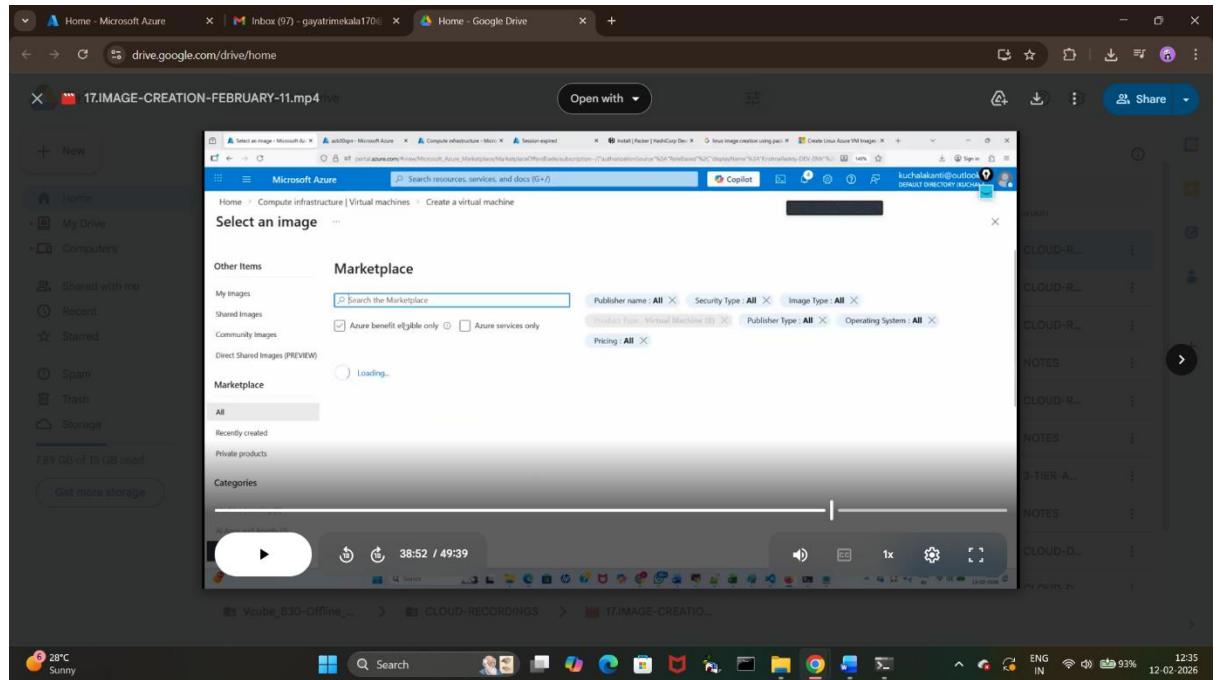
- Execute the code what we are install, what we are build, instant command these things are run in the power shell and run it.
- The commands are

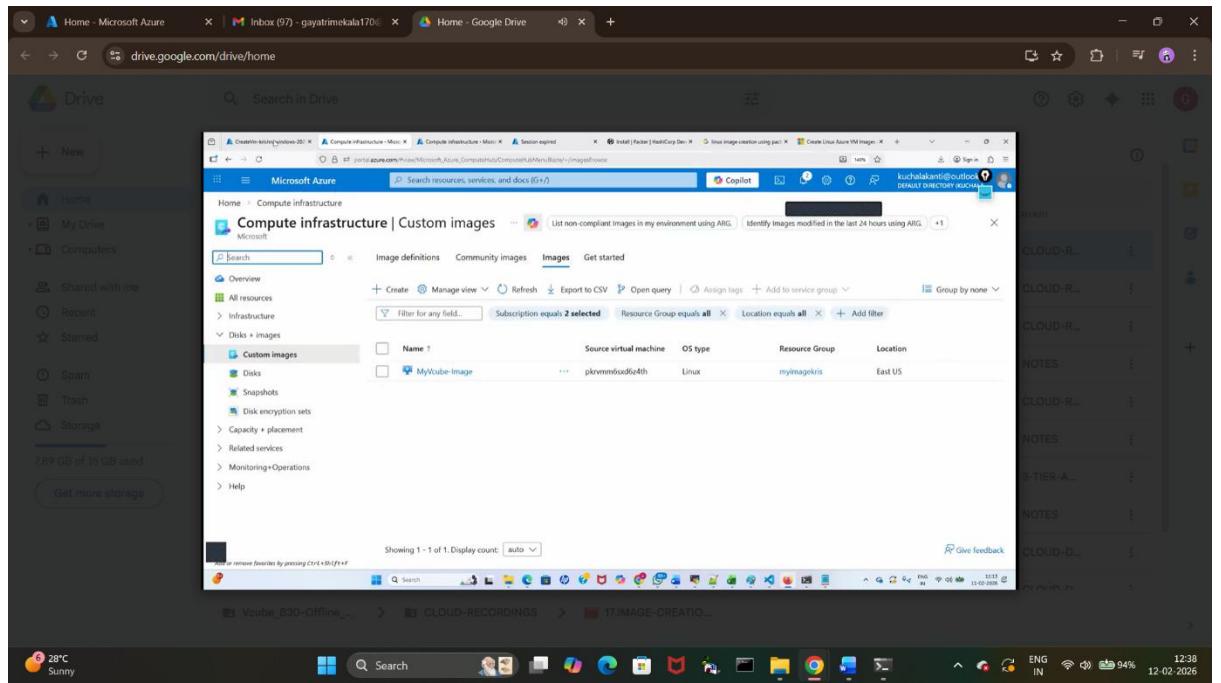
1. for inspect- [.\packer . exe inspect .\azure-packer . json]

2. for build-[.\packer . exe build .\azure-packer . json]

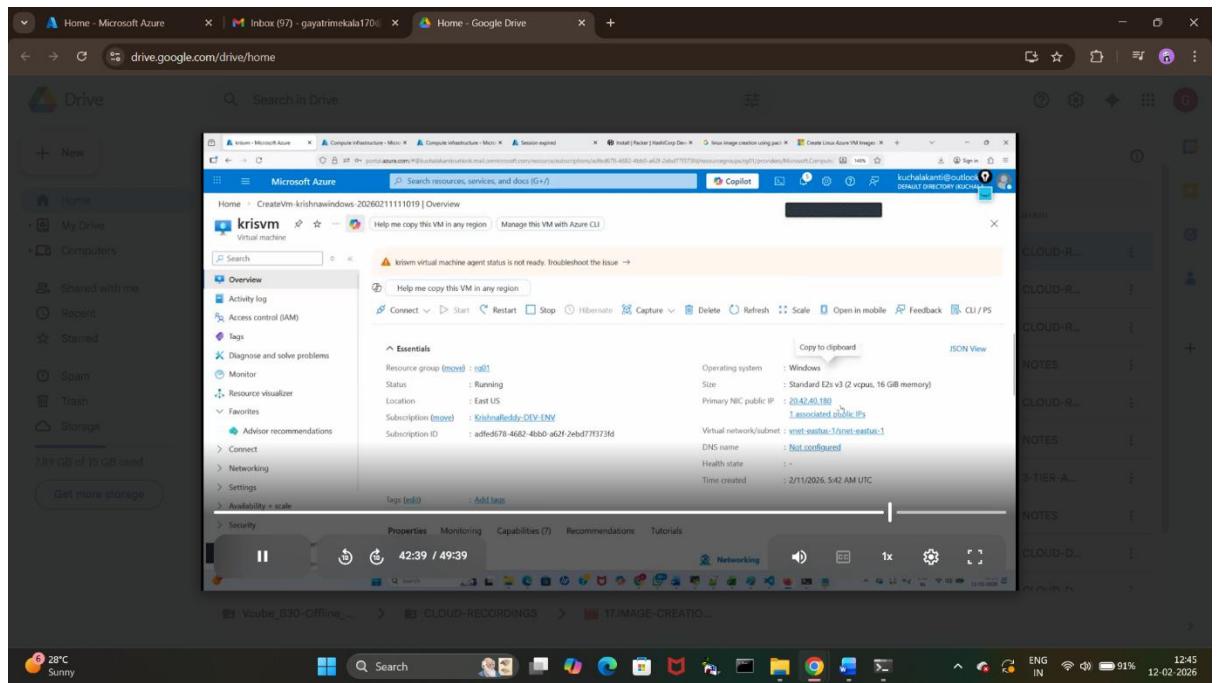
- ❖ Then start the execution , backend they can be created resource group, virtual network ,sub net ,virtual machine, script will execute and install the software and stop the machine then convert to image then , what we are done in manually they are deleted .

- ❖ Using our custom image we have to create an windows machine.
- ❖ See the images below

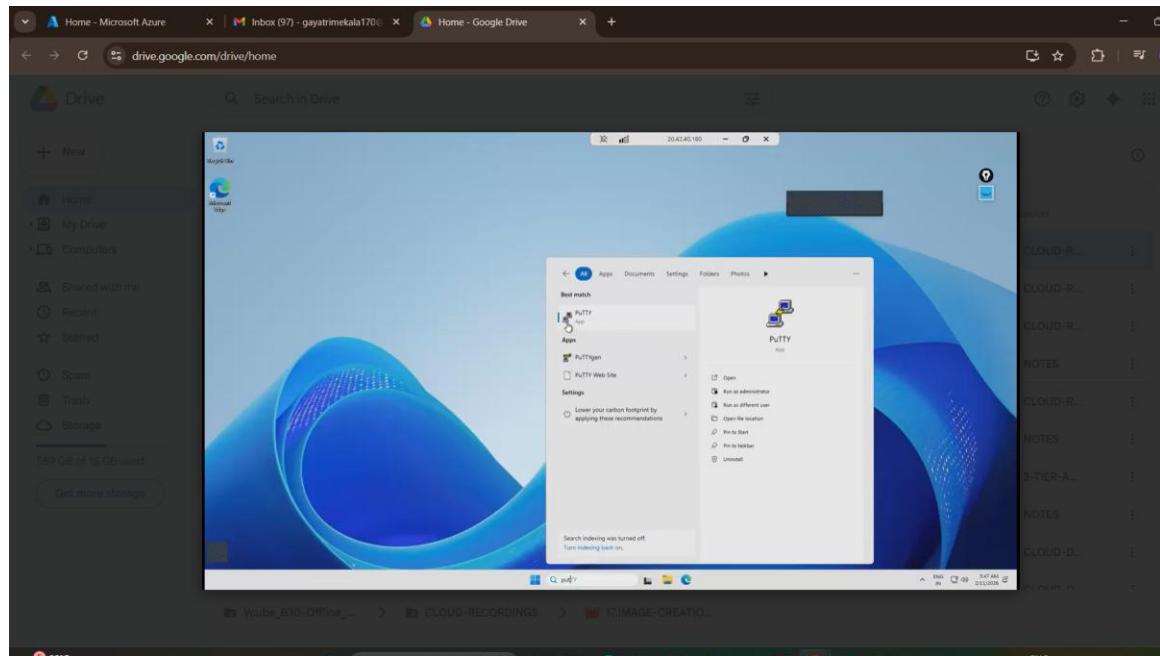




- ❖ Windows image, I have to shared gallery then all different resources should can access that image.
- ❖ If in-case we have to share to particular resources only they can able to access that image remaining should not able to access it.



- Now, we have to login to website {RDP} then already installed the putty



- Here, we use custom images for the projects , we can't use the raw images for that.
- And check all availabilities and hardening clearly check and submit to the customer.