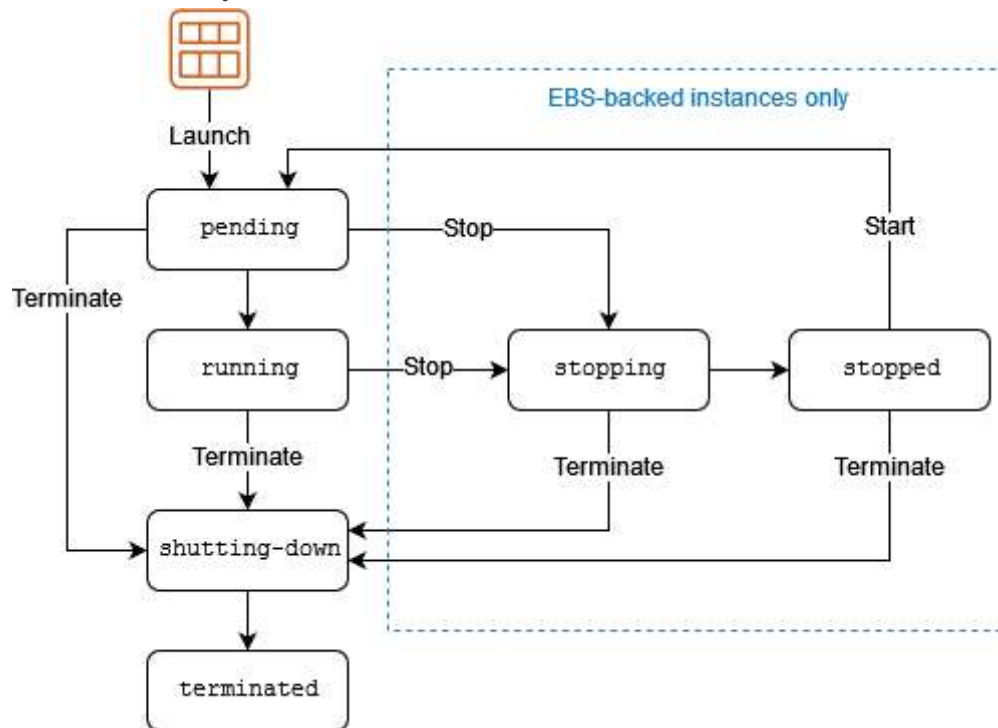


Virtual Machines contd

Ondemand - Billing states

- AWS EC2 lifecycle [Refer Here](#)



- Azure VM lifecycle [Refer Here](#)

Resizing the virtual machines (Vertical Scaling)

- Both Azure and AWS allow resizing the virtual machine.
- Azure allows us to resize the machine even if the virtual machine is in running state, whereas AWS allows only when ec2 is in stopped state.
- Impact:
 - Azure deallocates and creates a new virtual machine i.e. your vm will be stopped.
 - This means downtime in both AWS and Azure.

Home > CreateVm-canonical.0001-com-ubuntu-server-focal-2-20240314090341 | Overview > Itlinux1

Itlinux1 | Size ☆ ...
Virtual machine

Search

Application security groups

Network manager

Settings

- Disks
- Extensions + applications
- Configuration
- Advisor recommendations
- Properties
- Locks

Availability + scale

- Size**
- Availability + scaling

Security

- Identity
- Microsoft Defender for Cloud

If the virtual machine is currently running, changing its size will cause it to be restarted. Stopping the virtual machine may reveal additional options.

Search by VM size... vCPUs : All RAM (GiB) : All Display cost : Monthly Add filter

Showing 336 VM sizes. Subscription: Azure subscription 1 Region: East US Current size: Standard_B2s

[Learn more about VM sizes](#)

VM Size ↑↓	Type ↑↓	vCPUs ↑↓	RAM (GiB) ↑↓	Data disks ↑
Most used by Azure users				
DS1_v2	General purpose	1	3.5	4
D2s_v3	General purpose	2	8	4
D2as_v4	General purpose	2	8	4
B2s	General purpose	2	4	4
B1s (free services eligible)	General purpose	1	1	2
B2ms	General purpose	2	8	4

Resize Prices presented are estimates in INR that include only Azure infrastructure costs and any discounts for the subscription and location. The prices don't include any applicable software costs. Final charges will appear in your local currency in cost analysis and billing views. [View Azure pricing calculator](#)

aws Services Search [Alt+S]

VPC EC2

EC2 Dashboard

EC2 Global View

Events

Instances

- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts
- Capacity Reservations

Images

- AMIs
- AMI Catalog

Elastic Block Store

Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive)

Any state

Name	Instance ID
azure devops self hosted...	i-087bf86fb2dfa6000

Instance: i-087bf86fb2dfa6000 (azure devops self hosted agents)

Details Status and alarms New Monitor

Instance summary Info

Instance ID

i-087bf86fb2dfa6000 (azure devops self hosted agents)

Actions

- Connect
- View details
- Manage instance state
- Instance settings**
- Networking
- Security
- Image and templates
- Monitor and troubleshoot

Change instance type

Change Nitro Enclaves

Change credit specification

Change resource based naming options

Modify instance placement

Modify Capacity Reservation settings

Edit user data

Allow tags in instance metadata

Private IPv4 addresses

172.31.27.141

Handling updates

- In Azure or AWS while we are dealing with ec2 and azure virtual machines, our responsibilities include
 - Updating Operating systems
 - Updating platforms

- Updating applications installed.
- For handling this we have two popular approaches
 - Patching
 - Immutable infrastructure
- Azure and AWS provides toolings for us to effectively handle both the situations.

Exercise:

- Create a ubuntu 20.04 , try upgrading to 22.04.
- Create a ubuntu 20.04 and update all the package