

Virtual Machine Resource

TITLE : Virtual Machine Resource

AUTHOR : Balaji V

DESIGNATION : Trainee | Impact Training

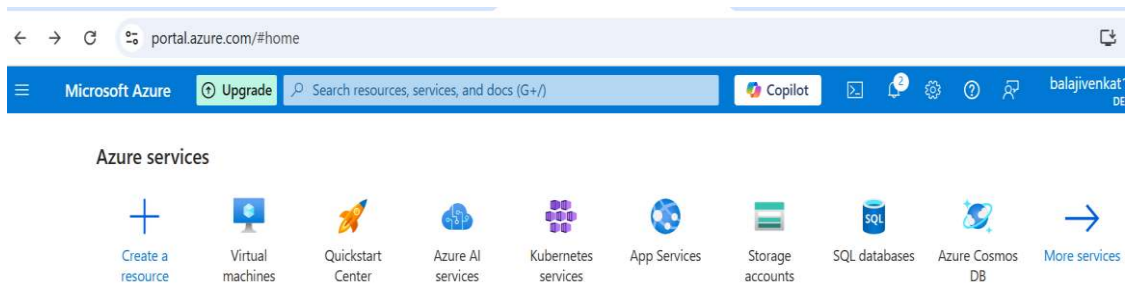
CREATED ON : 21/11/2024

MODIFIED ON : 22/11/2024

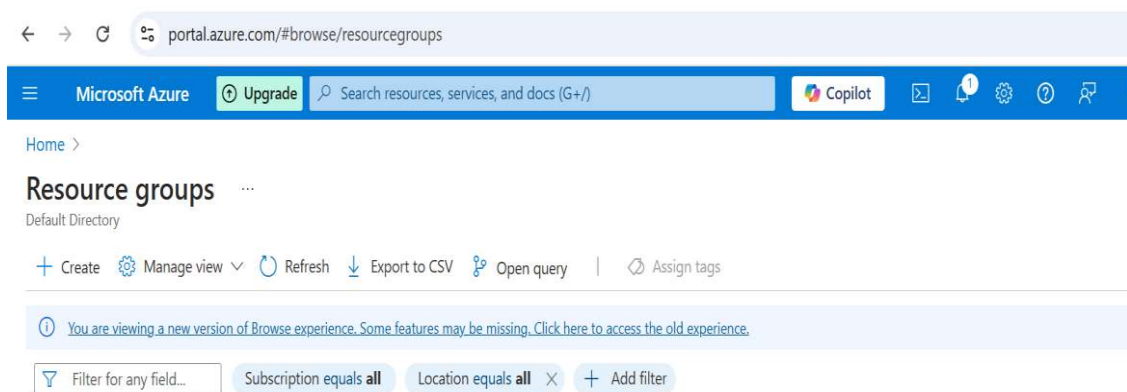
REVIEWED BY :

REVIEWED ON :

1) Navigate to Azure Home Screen and Search for Resource Group



2) First step is to create a Resource Group



Virtual Machine Resource

3) Create a Resource Group

portal.azure.com/#create/Microsoft.ResourceGroup

Microsoft Azure Upgrade Search resources, services, and docs (G+/) Copilot

Home > Resource groups >

Create a resource group

Basics Tags Review + create

Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)

Project details

Subscription * ⓘ Free Trial

Resource group * ⓘ Balaji_IAS ✓

Resource details

Region * ⓘ (Asia Pacific) South India

4) In the below Window select the respective option

portal.azure.com/#browse/Microsoft.Compute%2FVirtualMachines

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Home >

Virtual machines

Default Directory

+ Create Switch to classic Reservations Manage view Refresh Export to CSV Open query Assign tags Start Restart Stop

Azure virtual machine
Create a virtual machine hosted by Azure

Azure virtual machine with preset configuration
Create a virtual machine with presets based on your workloads

More VMs and related solutions
Discover and deploy full workloads and Azure products for your business needs

Type equals all Resource group equals all Location equals all Add filter

No grouping List view

on ↑↓ Resource group ↑↓ Location ↑↓ Status ↑↓ Operating system ↑↓ Size ↑↓ Public IP address

Virtual Machine Resource

5)Creating Virtual Machine

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

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Home > Virtual machines >

Create a virtual machine

Help me create a low cost VM Help me create a VM optimized for high availability Help me choose the right VM size for my workload

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * Free Trial

Resource group * Balaji_IAS
[Create new](#)

Instance details

Virtual machine name * Balaji ✓

Region * (Asia Pacific) Central India

Availability options Availability zone

Zone options Self-selected zone
Choose up to 3 availability zones, one VM per zone

< Previous Next : Disks > Review + create

https://portal.azure.com/#

6) In images select the required operating system

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Home > Virtual machines > Create a virtual machine >

Select an image

	Name	Publisher	Plan	Price starts at
Other Items My Images Shared Images Community Images Direct Shared Images (PREVIEW) Marketplace All Recently created Private products Categories	Windows Server	Microsoft	Windows Server 2022 Datacenter: A...	
	Windows 11	Microsoft	Windows 11 Enterprise N, version 2...	
	Ubuntu Server 22.04 LTS	Canonical	Ubuntu Server 22.04 LTS - x64 Gen 2	
	Microsoft Windows 10	Microsoft	Windows 10 Pro, version 22H2 - x64...	
	Ubuntu Server 20.04 LTS	Canonical	Ubuntu Server 20.04 LTS - x64 Gen 2	
	SQL Server 2022 on Windows Serv...	Microsoft	Free SQL Server License: SQL Server...	
	Red Hat Enterprise Linux (RHEL)	Red Hat Inc	Red Hat Enterprise Linux 9.4 (LVM) - ...	
	Windows multi-session + Microsof...	Microsoft	Windows 10 Enterprise multi-sessio...	Select
	Ubuntu Minimal 20.04 LTS	Canonical	Ubuntu Minimal 20.04 LTS - x64 Ge...	
	Visual Studio 2022	Microsoft	Visual Studio 2022 Enterprise on Wi...	
	Ubuntu Minimal 22.04 LTS	Canonical	Ubuntu Minimal 22.04 LTS - x64 Ge...	
	SQL Server 2019 on Windows Serv...	Microsoft	SQL Server 2019 Enterprise on Wind...	
	Ubuntu 24.04 LTS - all plans includi...	Canonical	Ubuntu Pro 24.04 LTS - x64 Gen 2	
	Debian 12 "Bookworm"	Debian	Debian 12 "Bookworm" - x64 Gen 2	

Is Marketplace helpful?

Virtual Machine Resource

7) In size select the Required Specification

portal.azure.com/#view/Microsoft_Azure_Compute/SpecPickerV2Blade/subscriptionsId/ee096296-2c4d-431c-8a81-303b5c5f7b17/regionId/centralindia/ext...

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Home > Virtual machines > Create a virtual machine >

Select a VM size

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

Showing 727 VM sizes. Subscription: Free Trial Region: Central India Current size: Standard_B1ls Image: Ubuntu Minimal 20.04 LTS Learn more about VM sizes Group by series

VM Size ↑↓	Type ↑↓	vCPUs ↑↓	RAM (GiB) ↑↓	Data disks ↑↓	Max IOPS ↑↓	Local storage (GiB) ↑
D2as_v4	General purpose	2	8	4	3200	16 (SCSI)
B2s	General purpose	2	4	4	1280	8 (SCSI)
B1s (free services eligible)	General purpose	1	1	2	320	4 (SCSI)
B2ms	General purpose	2	8	4	1920	16 (SCSI)
B1ls	General purpose	1	0.5	2	320	4 (SCSI)
DS2_v2	General purpose	2	7	8	6400	14 (SCSI)
B4ms	General purpose	4	16	8	2880	32 (SCSI)

Select 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. Give feedback

8) Creating Virtual Machines

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

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Home > Virtual machines >

Create a virtual machine

Help me create a low cost VM Help me create a VM optimized for high availability Help me choose the right VM size for my workload

VM disk encryption

Azure disk storage encryption automatically encrypts your data stored on Azure managed disks (OS and data disks) at rest by default when persisting it to the cloud.

Encryption at host ☐

Encryption at host is not registered for the selected subscription. Learn more

OS disk

OS disk size

OS disk type *

The selected VM size supports premium disks. We recommend Premium SSD for high IOPS workloads. Virtual machines with Premium SSD disks qualify for the 99.9% connectivity SLA.

Delete with VM ☒

< Previous Next : Networking > Review + create

Virtual Machine Resource

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

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Home > Virtual machines >

Create a virtual machine

Validation passed

Help me create a low cost VM Help me create a VM optimized for high availability Help me choose the right VM size for my workload

Place this virtual machine behind an existing load balancing solution? No

Delete public IP and NIC when VM is deleted? Enabled

Management

*** Initializing deployment...
Initializing template deployment to resource group 'Balaji_IAS'.

9)After click Create, the deployment will start

portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2Fee096296-2c4d-431c-8a81-303b5c5f7b17%2Fresou...

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Home >

CreateVm-MicrosoftWindowsDesktop.Windows-10-win10-20241122132403 | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

Overview Inputs Outputs Template

Deployment is in progress

Deployment name: CreateVm-MicrosoftWindowsDesktop.Wi... Start time: 11/22/2024, 1:49:51 PM
Subscription: Free Trial Correlation ID: 48d8aa2f-7abe-45e4-9fe7
Resource group: Balaji_IAS

Deployment details

Resource	Type	Status	Operation details
No results.			

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Start learning today >

Work with an expert
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.
Find an Azure expert >

Virtual Machine Resource

10) Select Connect option

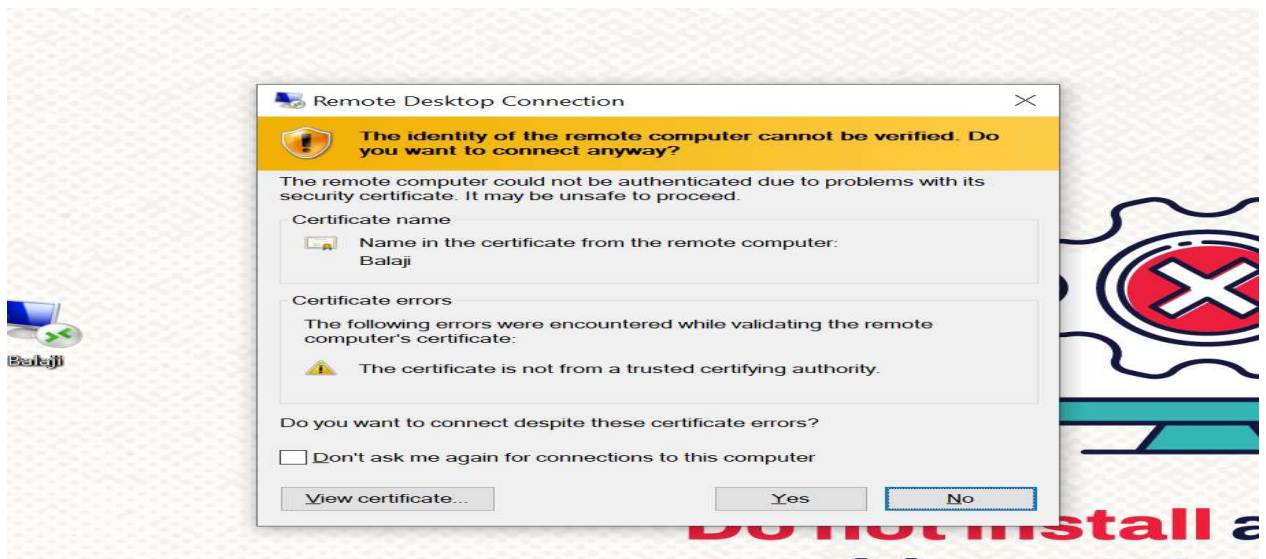
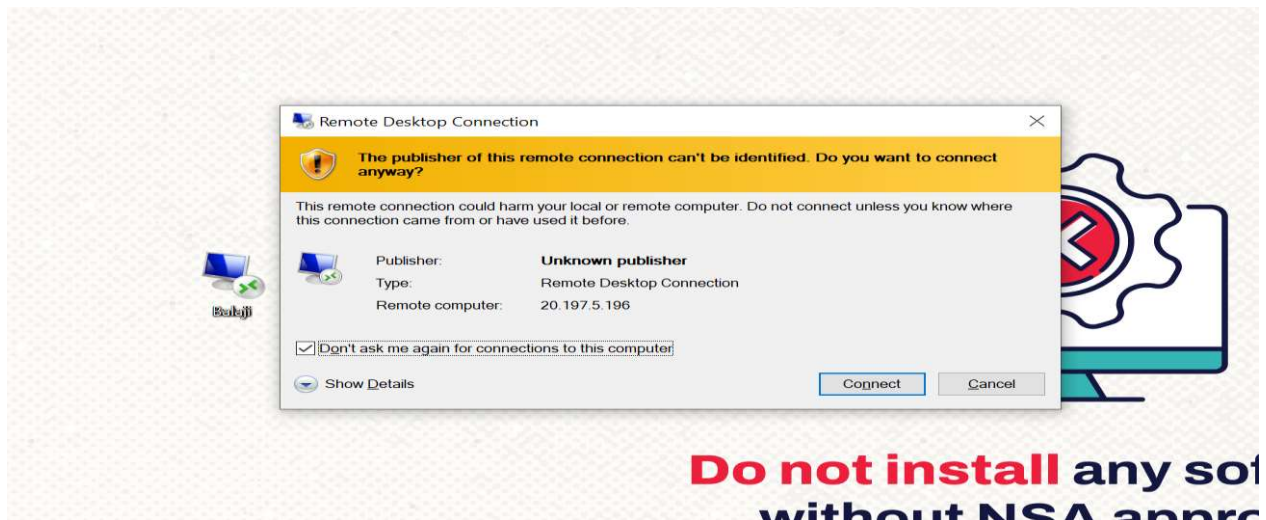
The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, an 'Upgrade' button, a search bar, and a 'Copilot' button. The user's profile is 'balajivenkat1302@gmail...'. The main content area displays the 'Overview' page for a virtual machine named 'Balaji'. A warning banner at the top states: 'Balaji virtual machine agent status is not ready. Troubleshoot the issue ->'. Below this, a button says 'Help me copy this VM in any region'. The 'Connect' button is highlighted in the top navigation bar. The 'Essentials' section on the right lists various details: Resource group (Balaji_IAS), Status (Running), Location (Central India (Zone 1)), Subscription (Free Trial), Subscription ID (ee096296-2c4d-431c-8a81-303b5c5f7b17), Availability zone (1), Operating system (Windows), Size (Standard DS1 v2 (1 vcpu, 3.5 GiB memory)), Public IP address (20.197.5.196), Virtual network/subnet (Balaji-vnet/default), DNS name (Not configured), and Health state (-). The left sidebar shows the 'Connect' option selected under the 'Overview' tab.

11) To Access VM Need to download RDP file

The screenshot shows the Microsoft Azure portal interface. The top navigation bar is the same as the previous screenshot. The main content area displays the 'Connect' page for the virtual machine 'Balaji'. The 'Connect' button is highlighted in the top navigation bar. The 'Connect' section on the right shows the port (3389) and a 'Check access' link. Below this, a 'Most common' section is displayed, which includes a 'Local machine' option. The 'Native RDP' option is selected, with a description: 'Connect via native RDP without any additional software needed. Recommended for testing only.' The public IP address (20.197.5.196) is also shown. At the bottom, there are two buttons: 'Select' and 'Download RDP file'. The left sidebar shows the 'Connect' option selected under the 'Overview' tab.

Virtual Machine Resource

12) Remote Desktop connection screen



Virtual Machine Resource

13)Final Output:

