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Date: 22/11/2024

## Azure Fundamentals

### Creating Virtual Machine:

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 user profile for 'swethasuresh626@gmail.com'. The main heading is 'Virtual machines' with a 'Default Directory' sub-heading. Below this, there are several action buttons: '+ Create', 'Switch to classic', 'Reservations', 'Manage view', 'Refresh', 'Export to CSV', 'Open query', 'Assign tags', 'Start', 'Restart', and 'Stop'. A filter bar shows 'Subscription equals all', 'Type equals all', 'Resource group equals all', and 'Location equals all'. Below the filter bar, it says 'Showing 0 to 0 of 0 records.' A table header is visible with columns: Name, Subscription, Resource group, Location, Status, Operating system, Size, and Public IP address. The main content area displays a large monitor icon with the text 'No virtual machines to display' and a sub-text: 'Create a virtual machine that runs Linux or Windows. Select an image from the marketplace or use your own customized image.' A '+ Create' button is prominently displayed. At the bottom, there is a 'Give feedback' link. The Windows taskbar at the very bottom shows the search bar, task view button, and several application icons, along with system tray information including temperature (30°C), weather (Haze), and time (3:52 PM, 11/22/2024).

Microsoft Azure portal showing the deployment details for a virtual machine named "CreateVm-canonical.ubuntu-24\_04-lts-server-20241122155357". The deployment is complete, and the status is "Succeeded". The deployment details show the subscription as "Free Trial" and the resource group as "VM1\_group". The deployment started on 11/22/2024 at 4:02:33 PM. The deployment ID is 81baa222-1a87-49a7-8c96-C.

**Your deployment is complete**

Deployment name: CreateVm-canonical.ubuntu-24\_04-lts-server-20241122155357  
Subscription: Free Trial  
Resource group: VM1\_group  
Start time: 11/22/2024, 4:02:33 PM  
Correlation ID: 81baa222-1a87-49a7-8c96-C

**Deployment details**

**Next steps**

- Setup auto-shutdown Recommended
- Monitor VM health, performance and network dependencies Recommended
- Run a script inside the virtual machine Recommended

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Microsoft Azure portal showing the "Create a virtual machine" wizard. The wizard is currently on the "Project details" step, where the user is prompted to select a subscription and resource group. The subscription is set to "Free Trial" and the resource group is set to "(New) Resource group". The user is also prompted to create a new resource group.

**Create a virtual machine**

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for full customization. [Learn more](#)

**Project details**

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

Subscription \*

Resource group \*   
[Create new](#)

**Instance details**

Virtual machine name \*

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Home > Virtual machines >

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This subscription may not be eligible to deploy VMs of certain sizes in certain regions.

Project details

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 \* ⓘ(New) VM1\_group\_11221603

Create new

Instance details

Virtual machine name \* ⓘVM1

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OS disk

OS disk size ⓘImage default (30 GiB)

OS disk type \* ⓘPremium SSD (locally-redundant storage)

Delete with VM ⓘ☒

Key management ⓘPlatform-managed key

Enable Ultra Disk compatibility ⓘ☐

Data disks for VM1

You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.

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Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution.  
[Learn more](#)

Network interface

When creating a virtual machine, a network interface will be created for you.

Virtual network \* (new) VM1-vnet  
[Create new](#)

Subnet \* (new) default (10.0.0.0/24)

Public IP (new) VM1-ip  
[Create new](#)

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Configure management options for your VM.

Microsoft Defender for Cloud

Microsoft Defender for Cloud provides unified security management and advanced threat protection across hybrid cloud workloads. [Learn more](#)

✔ Your subscription is protected by Foundational Cloud Security Posture Management Free Plan.

Identity

Enable system assigned managed identity ☐

Microsoft Entra ID

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Add additional configuration, agents, scripts or applications via virtual machine extensions or cloud-init.

Extensions

Extensions provide post-deployment configuration and automation.

ExtensionsSelect an extension to install

VM applications

VM applications contain application files that are securely and reliably downloaded on your VM after deployment. In addition to the application files, an install and uninstall script are included in the application. You can easily add or remove applications on your VM after create. [Learn more](#)

Select a VM application to install

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Price

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Subscription credits apply  
**1.1314 INR/hr**  
[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional

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Generate new key pair

An SSH key pair contains both a public key and a private key. Azure doesn't store the private key. After the SSH key resource is created, you won't be able to download the private key again. Learn more

Download private key and create resource

Return to create a virtual machine

Type here to search 30°C Haze ENG IN 4:05 PM 11/22/2024

Microsoft Azure portal showing the deployment details for "CreateVm-canonical.ubuntu-24\_04-Its-server-20241122160332". The deployment is in progress. The deployment name is "CreateVm-canonical.ubuntu-24\_04-Its-server-20241122160332", the subscription is "Free Trial", and the resource group is "VM1\_group\_11221603". The deployment started on 11/22/2024 at 4:06:12 PM. The correlation ID is "32265e7a-0a01-405f-835a-b".

Deployment details:

Resource	Type	Status	Operation details
VM1	Microsoft.Compute/VirtualMachines	Created	<a href="#">Operation details</a>
vm1689_x1	Microsoft.Network/NetworkInterfaces	Created	<a href="#">Operation details</a>
VM1-vnet	Microsoft.Network/VirtualNetworks	OK	<a href="#">Operation details</a>
VM1-ip	Microsoft.Network/PublicIPAddresses	OK	<a href="#">Operation details</a>
VM1-nsg	Microsoft.Network/NetworkSecurityGroups	OK	<a href="#">Operation details</a>

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Microsoft Azure portal showing the deployment details for "CreateVm-canonical.ubuntu-24\_04-Its-server-20241122160332". The deployment is complete. The deployment name is "CreateVm-canonical.ubuntu-24\_04-Its-server-20241122160332", the subscription is "Free Trial", and the resource group is "VM1\_group\_11221603". The deployment started on 11/22/2024 at 4:06:12 PM. The correlation ID is "32265e7a-0a01-405f-835a-b".

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