

CONFIGURE AZURE BASTION FOR SECURE ACCESS VIA WINDOWS OS

STEP1: created a one virtual machine named **mentor** and virtual network named **sample** in a same region, then after create a bastion named **mybastion**

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

Microsoft Azure

Home > Bastions > Create a Bastion

Basics Advanced Tags Review + create

Bastion allows web based RDP access to your vnet VM. [Learn more](#)

Project details

Subscription * Azure for Students

Resource group * az

Instance details

Name * mybastion

Region * Central India

Availability zone None

Tier * Standard

Instance count * 2

Configure virtual networks

Virtual network * sample

Review + create Previous Next: Advanced > Download a template for automation

STEP 2: Add a one subnet in a vnet, named as **AzureBastionSubnet** in the ip address range of /26 (64 address) are be created.

portal.azure.com/#@pdharshan590gmail.onmicrosoft.com/resource/subscriptions/04289433-ab36-4fcf-9de1-4d07ae135d21/resourceGroups/az/providers/Microsoft.Network/virtualNetworks/sample/subnets

sample | Subnets

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Resource visualizer Settings Address space Connected devices Subnets Bastion DDoS protection Firewall Microsoft Defender for Cloud Network manager DNS servers

Create subnets to segment the virtual network address space into smaller address ranges.

Name	IPV4
default	10.0.0.0/26
AzureBastionSubnet	10.0.0.64/26

Showing 2 subnets

Showing 2 subnets

Edit subnet

Select an address space and configure your subnet. You can customize a default subnet or select from subnet templates if you plan to add select services later. [Learn more](#)

Subnet ID /subscriptions/04289433-ab36-4fcf-9de1-4d07ae135d21/resourceGroups/az/providers/Mi...

Subnet purpose Azure Bastion

Name * AzureBastionSubnet

IPv4

Include an IPv4 address space ☒

Choose a starting address and size within your IPv4 address range: 10.0.0.0/23 (10.0.0.0 - 10.0.1.255)

Starting address * 10.0.0.64

Size /26 (64 addresses)

Subnet address range 10.0.0.64 - 10.0.0.127

IPv6

Include an IPv6 address space ☐ This virtual network has no IPv6 address ranges.

Private subnet

Private subnets enhance security by not providing default outbound access. To enable outbound connectivity for virtual machines to access the internet, it is necessary to explicitly grant outbound access. A NAT gateway is the recommended way to provide outbound connectivity for virtual machines in the subnet. [Learn more](#)

Save Cancel

Give feedback

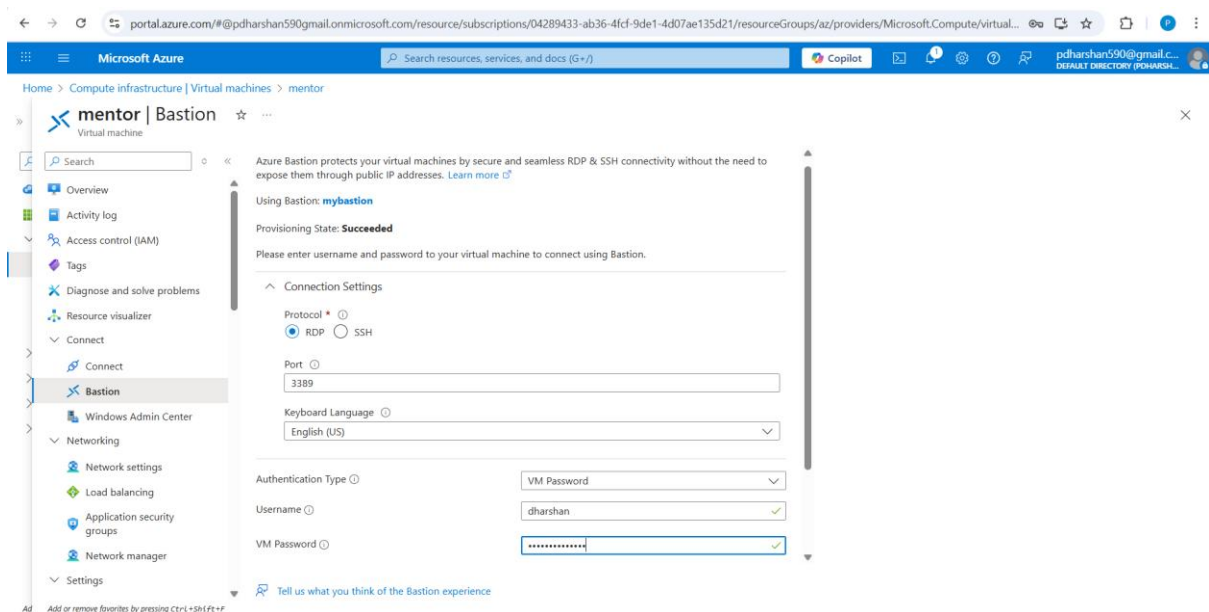
STEP 3: As a overview of the created Bastion, is a connected a virtual network

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, a search bar, and user information. The main content area displays the 'Overview' page for a Bastion resource named 'mybastion'. The left sidebar contains a navigation menu with options like Activity log, Access control (IAM), Tags, Diagnose and solve problems, Resource visualizer, Settings, Monitoring, Automation, and Help. The main content area is divided into sections: 'Essentials' showing resource details (Resource group: az, Location: Central India, Subscription: Azure for Students), 'Tags' (Add tags), 'Tutorials' (Free training from Microsoft), and 'Sessions'. The 'Essentials' section includes a table with details: Virtual network/subnet: sample/AzureBastionSubnet, Public DNS name: bst-ed4cdc0a-bc25-4731-9044-c6750e5ce680.bastion.azure.com, Public IP address: sample-ip, Tier: Standard, Provisioning state: Succeeded, and Availability zone: None.

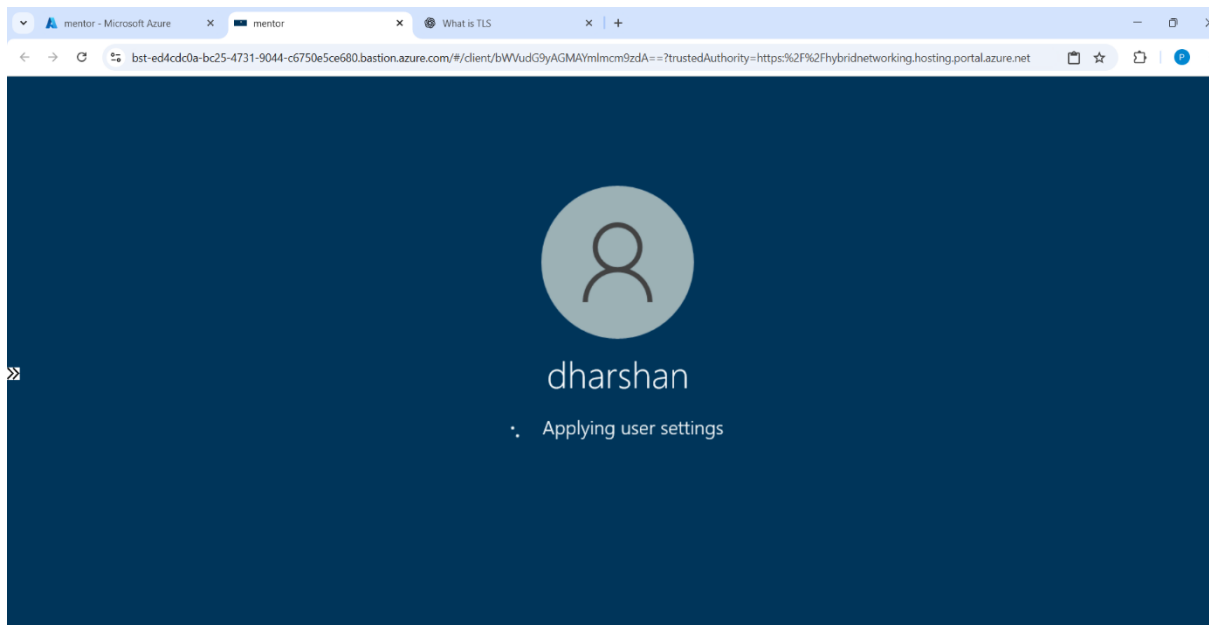
STEP 4: Then, Remove the ip configuration in **Network Interface Card (NIC)** as VM. Disable the public ip address Associate in the configuration.

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, a search bar, and user information. The main content area displays the 'IP configurations' page for a Network Interface Card (NIC) resource named 'mentor690'. The left sidebar contains a navigation menu with options like Overview, Activity log, Access control (IAM), Tags, Resource visualizer, Settings, Monitoring, Automation, and Help. The main content area is divided into sections: 'IP Settings' showing resource details (Enable IP forwarding: off, Virtual network: sample, Gateway load balancer: None, Subnet: default (10.0.0.0/26) 58 free IP addresses), 'Private IP address settings' (Allocation: Dynamic), and 'Public IP address settings' (Associate public IP address: off). The 'IP Settings' section includes a table with details: Name: ipconfig1, IP Version: IPv4, Type: Primary, Private IP Address: 10.0.0.4 (Dynamic).

STEP 5: Authenticate a username and password to login the vm via Azure Bastion



STEP 6: This is my Login Azure Bastion Portal. Enter the username and password to open the Windows operating System



STEP 7: Open the Server Manager, Properties of the Windows Operating System. Listed the properties of the created OS

The screenshot displays the Windows Server Manager interface. The left-hand navigation pane includes 'Dashboard', 'Local Server' (which is selected), and 'All Servers'. The main area is titled 'Server Manager - Local Server' and contains a 'PROPERTIES' section for the server 'mentor'. This section lists various system configurations in a grid-like format. Below this, an 'EVENTS' section shows 'All events | 0 total'.

PROPERTIES
For mentor

Computer name	mentor	Last installed updates	Today at 4:40 AM
Workgroup	WORKGROUP	Windows Update	Install updates automatically using Windows Update
		Last checked for updates	Today at 4:39 AM
Microsoft Defender Firewall	Public: On	Microsoft Defender Antivirus	Real-Time Protection: On
Remote management	Enabled	Feedback & Diagnostics	Settings
Remote Desktop	Enabled	IE Enhanced Security Configuration	On
NIC Teaming	Disabled	Time zone	(UTC) Coordinated Universal Time
Ethernet	IPv4 address assigned by DHCP, IPv6 enabled	Product ID	00446-90000-00000-AA042 (activated)
Azure Arc Management	Disabled		
Operating system version	Microsoft Windows Server 2022 Datacenter Azure Edition	Processors	Intel(R) Xeon(R) Platinum 8272CL CPU @ 2.60GHz
Hardware information	Microsoft Corporation Virtual Machine	Installed memory (RAM)	3.95 GB
		Total disk space	142.45 GB

EVENTS
All events | 0 total

Server Name	ID	Severity	Source	Log	Date and Time
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