

DEVOPS with MULTI-CLOUD

Practice Tasks

Institute Name : V Cube software solutions
Course : DevOps with Multi-Cloud
Batch : 30
Trainer : Krishna reddy sir

Prepared by : G.Bhavish
(MCD-AZ30-024)

TASK-13 : Bastion.

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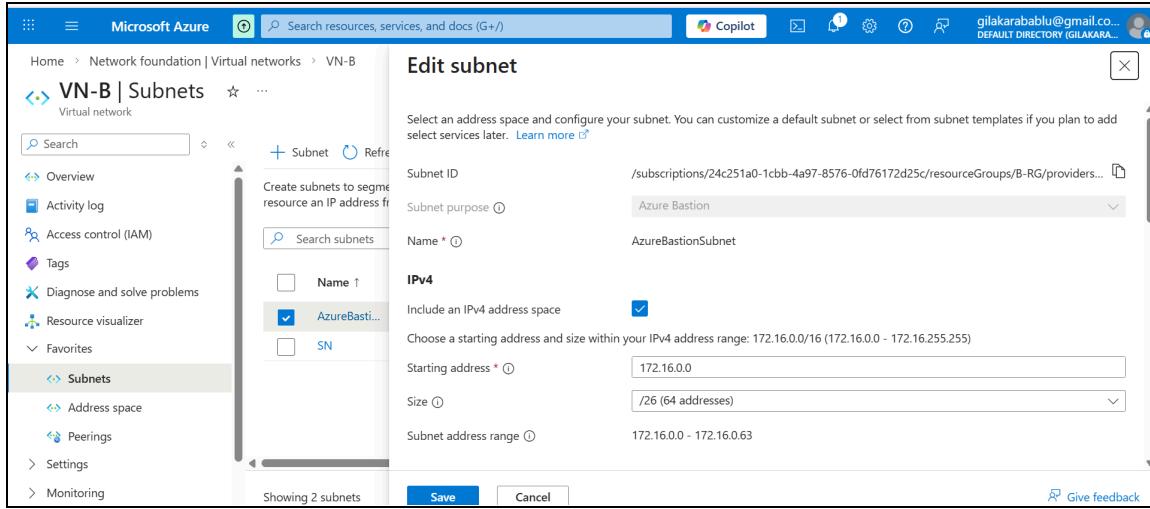
Objective :-

To securely connect to Azure Virtual Machines using RDP or SSH through the Azure portal without exposing public IP addresses, ensuring safe and centralized remote access.

Bastion :-

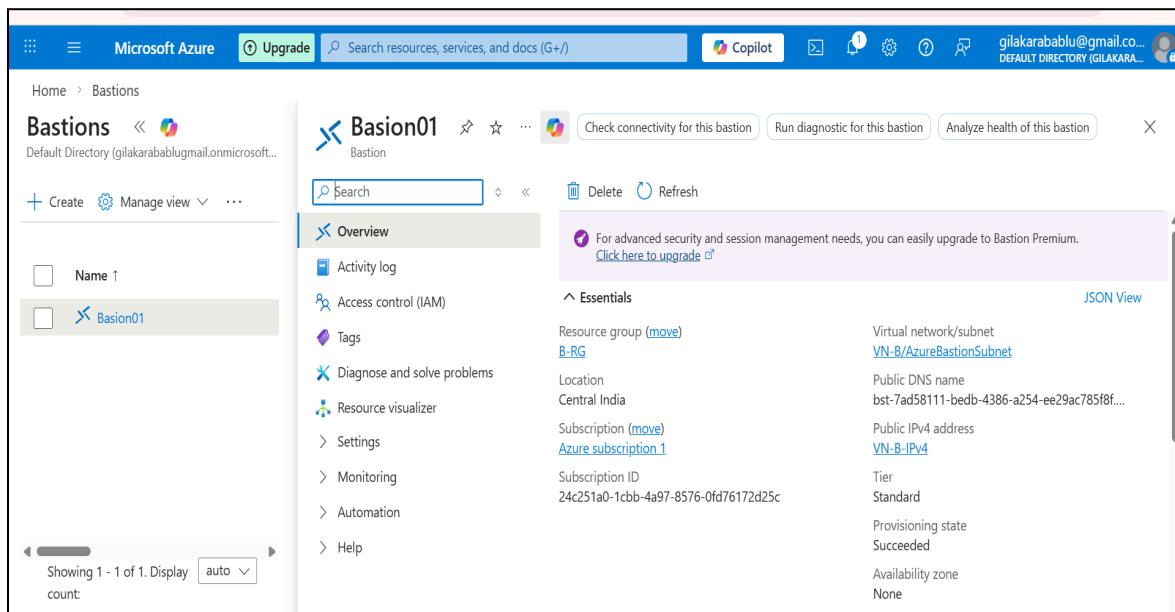
- The Azure Bastion is a fully managed PaaS service that provides secure RDP and SSH access to azure machines.
- using Bastion we can directly access from the azure portal with a browser.
- Bastion acts as a secure connection between the user and the machine.
- To create Bastion we need to have a dedicated subnet.

The screenshot shows the Microsoft Azure portal interface for a virtual machine named 'VM-BASN'. The left sidebar contains navigation links like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Monitor, Resource visualizer, Favorites, Connect, Networking, and Settings. The main content area displays the 'Overview' tab for the VM. It includes sections for 'Essentials' (Resource group: B-RG, Status: Running, Location: Central India, Subscription: Azure subscription 1, ID: 24c251a0-1ccb-4a97-8576-0fd76172d25c) and 'Networking' (Operating system: Linux (ubuntu 24.04), Primary NIC public IP: 20.198.81.38, 1 associated public IPs, Virtual network/subnet: VN-B/SN, DNS name: Not configured). There are also buttons for 'Connect', 'Start', 'Restart', 'Stop', 'Hibernate', 'Capture', 'Delete', 'Refresh', 'Scale', and 'Open in mobile'.



fig(2) successfully created a vm and a dedicated subnet for bastion.

→ Now create a Bastion.

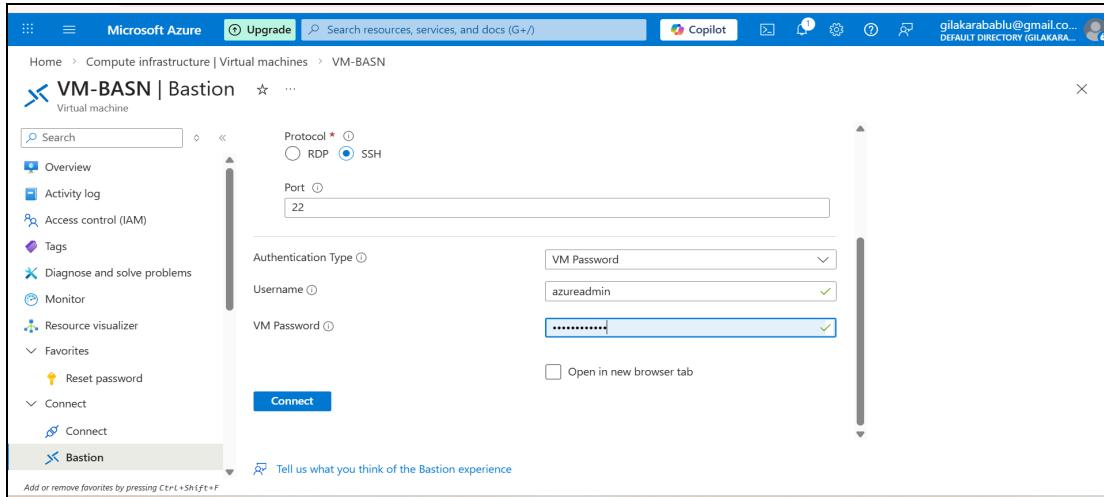


fig(3) successfully created bastion.

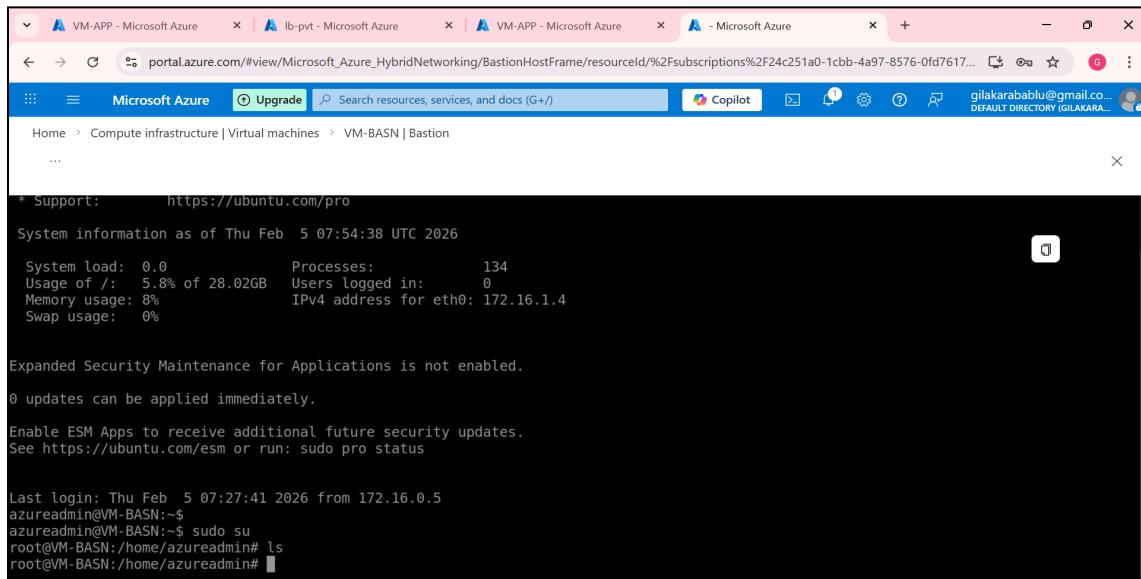
→ Now we can login to the machine using the bastion via clicking connect using bastion from the virtual machine in the azure portal.

→ we use ssh port as the machine is linux.

→ After login the machine opens in a browser and we can execute the commands.



fig(4) login to the vm



fig(5) successfully connected to the machine via Bastion.

Conclusion:- Azure Bastion provides secure and seamless remote access to virtual machines without requiring public IP addresses. It enhances security by enabling RDP and SSH connectivity directly through the Azure portal over a protected connection.