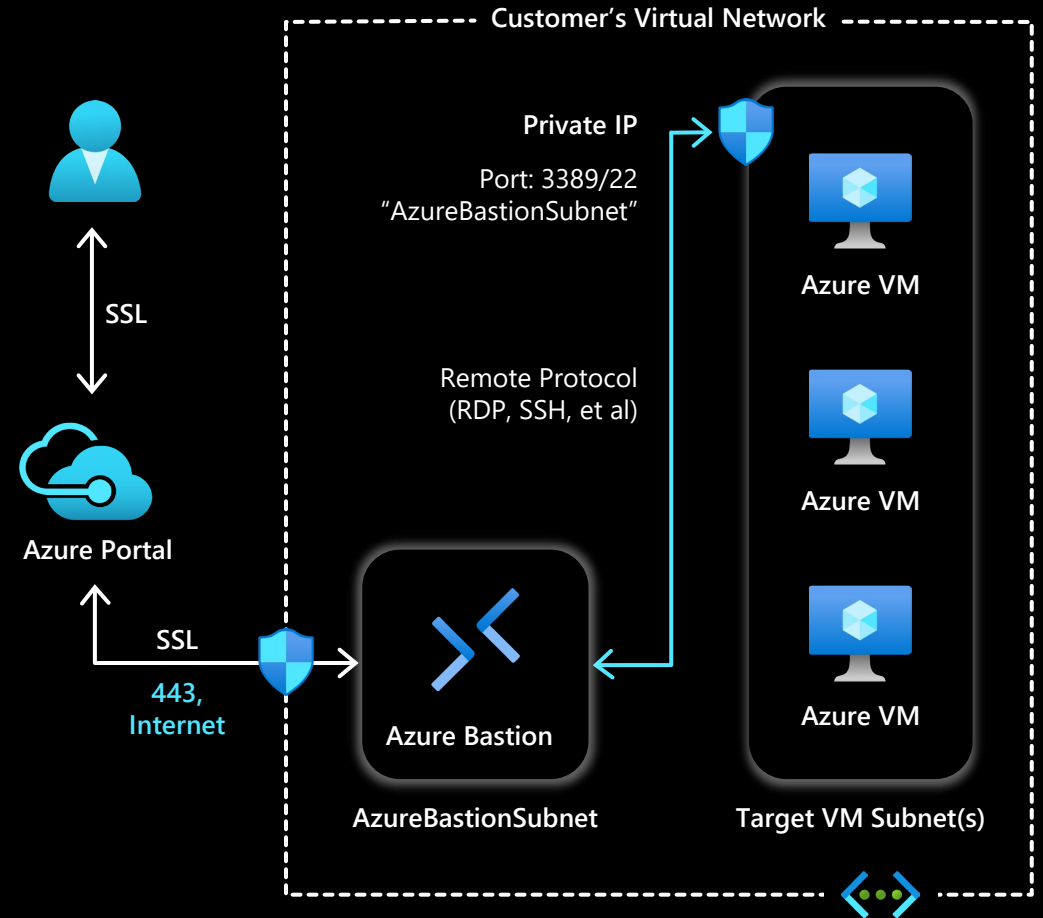


Azure Bastion



Secure remote access to Azure VMs



Azure Bastion

No need for public IP addresses on VM.

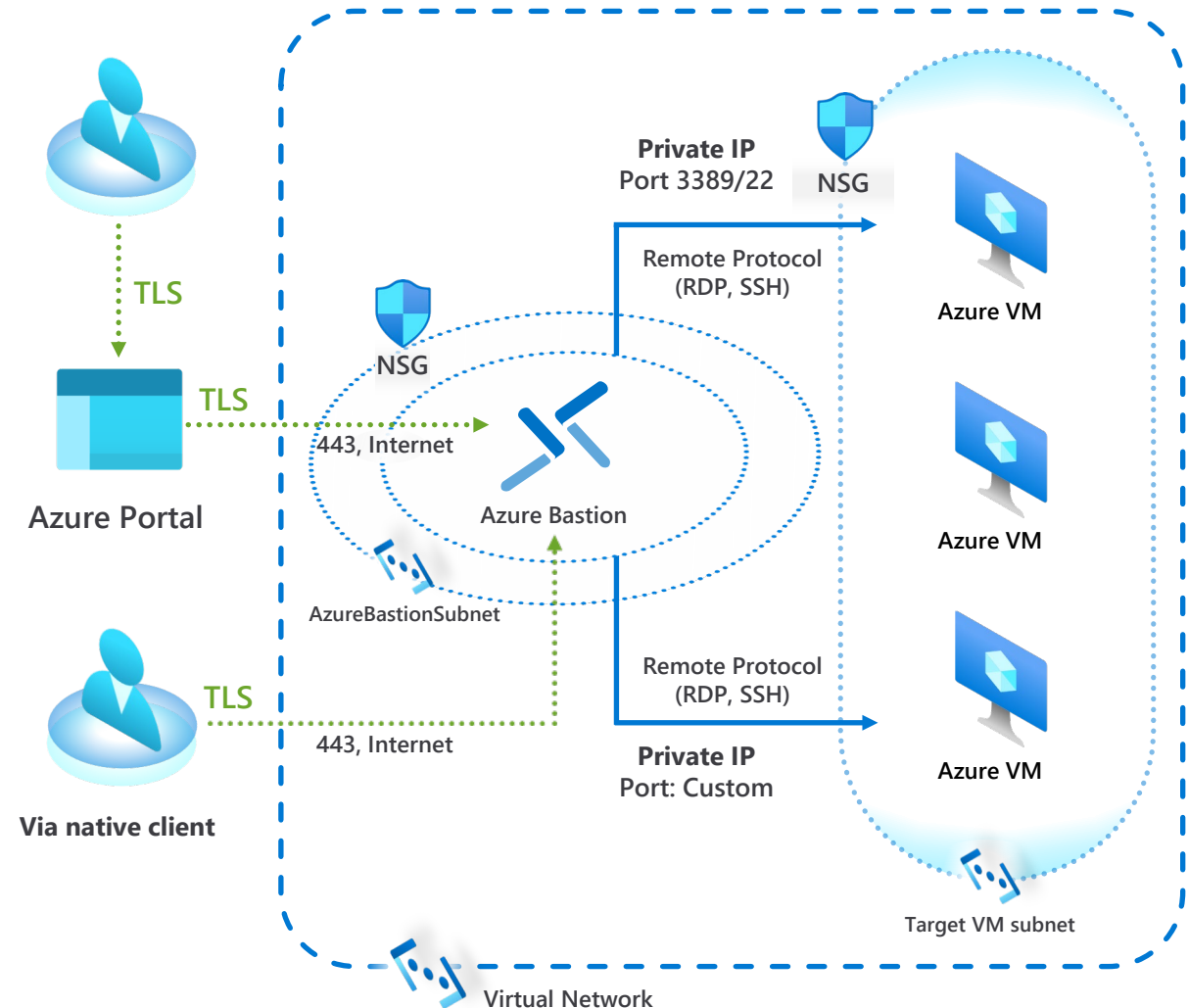
Connect to VM using its private IP.

Connect to the VM using RDP and SSH.

Connect with Azure CLI or portal, with TLS.

Connect to VM within same or peered VNET.

Support multi-user.



Azure Bastion SKUs

Feature	Developer	Basic	Standard
Connect to target VMs in same virtual network	Yes	Yes	Yes
Connect to target VMs in peered virtual networks	No	Yes	Yes
Support for concurrent connections	No	Yes	Yes
Connect to Linux VM using RDP	No	No	Yes
Connect to VMs using Azure CLI	No	No	Yes

More details

learn.microsoft.com/en-us/azure/bastion/configuration-settings#skus



Creating Bastion

Create a Bastion ...

Basics Tags Advanced Review + create

Bastion Features

Bastion allows web based RDP access to your vnet VM.

☒ Copy and paste ⓘ

☐ IP-based connection ⓘ

☐ Kerberos authentication ⓘ

☐ Native client support ⓘ

☐ Shareable Link ⓘ

Create a Bastion ...

Basics Tags Advanced Review + create

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

Project details

Subscription *

Microsoft-Azure-T



Resource group *

rg-vm-1



[Create new](#)

Instance details

Name *

Region *

West Europe



Tier * ⓘ

Standard



Instance count * ⓘ

☐ ----- ☐

2

Configure virtual networks

Virtual network * ⓘ

[Create new](#)

Public IP address

Public IP address * ⓘ

☒ Create new ☐ Use existing

Public IP address name *


Public IP address SKU

Standard

Assignment

☐ Dynamic ☒ Static

Connect with Bastion

 **vm-2 | Connect** ☆ ...
Virtual machine

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Connect

Connect

Bastion

Networking

Network settings

Load balancing


Application security groups

Network manager

Settings

Disks

Extensions + applications


 **Local machine** **Azure portal**

SSH using Azure CLI

Quickly connect in browser. Supports Azure AD authentication. Private key not required.

Select

① Works with public IP address only


 **Local machine**

Native SSH

No additional software needed. Private key required for connection. Best for those with existing SSH tools.

Private IP address (10.2.0.4)


Select

 **Local machine** **Azure portal**

Bastion basic or standard

Advanced capabilities including custom inbound port, RDP on desktop, and host scaling.

Go to Bastion

 **Local machine**

Remote desktop protocol

Most Linux machines do not have RDP enabled. Use SSH or install a desktop environment like xRDP.

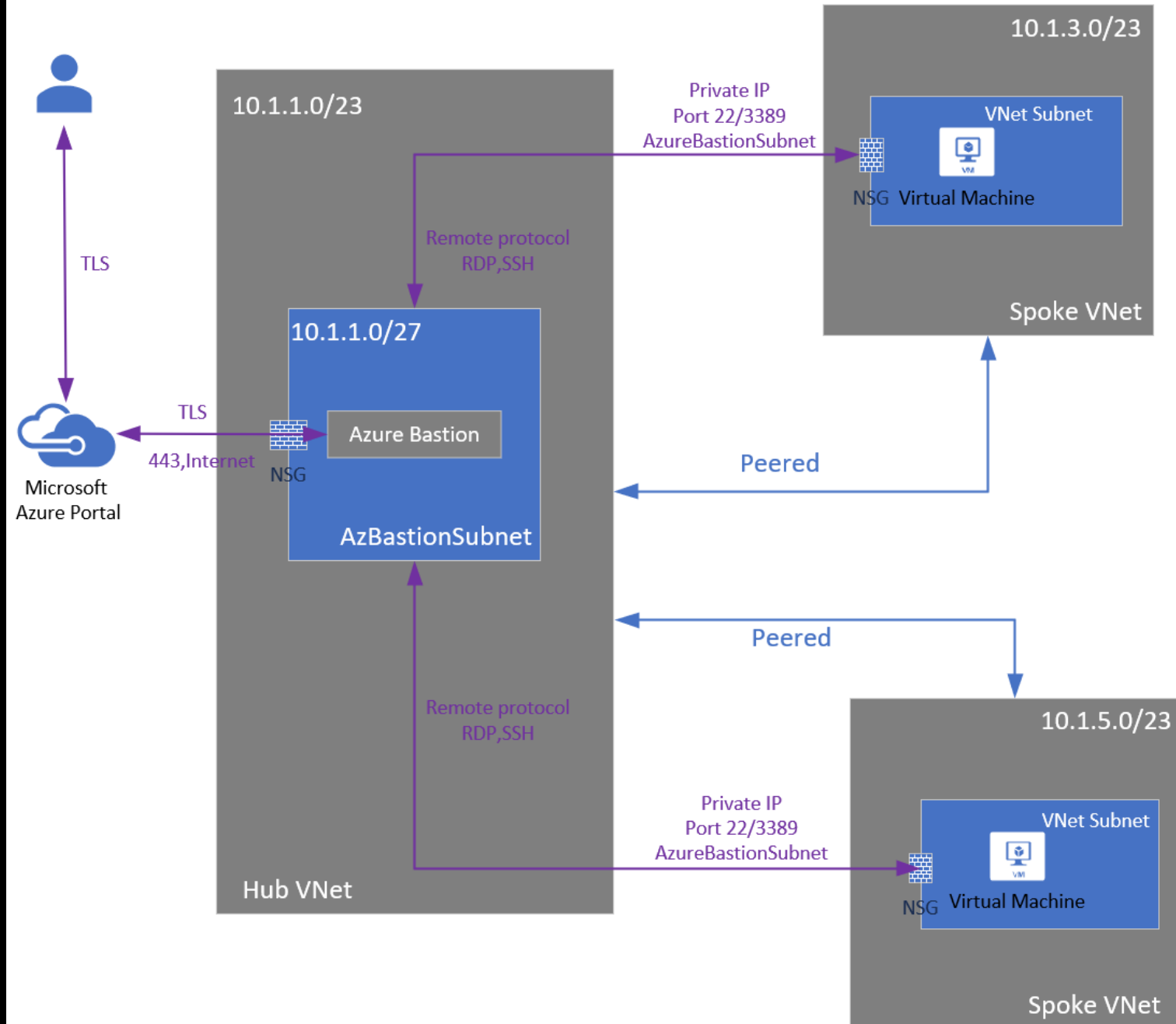
[Learn about RDP on Linux](#)

Bastion in Hub & Spoke model

Bastion is typically **deployed within the Hub**.

Bastion provides connectivity to **all VMs within the Spokes**.

Bastion can **scale out** to support multiple concurrent sessions.



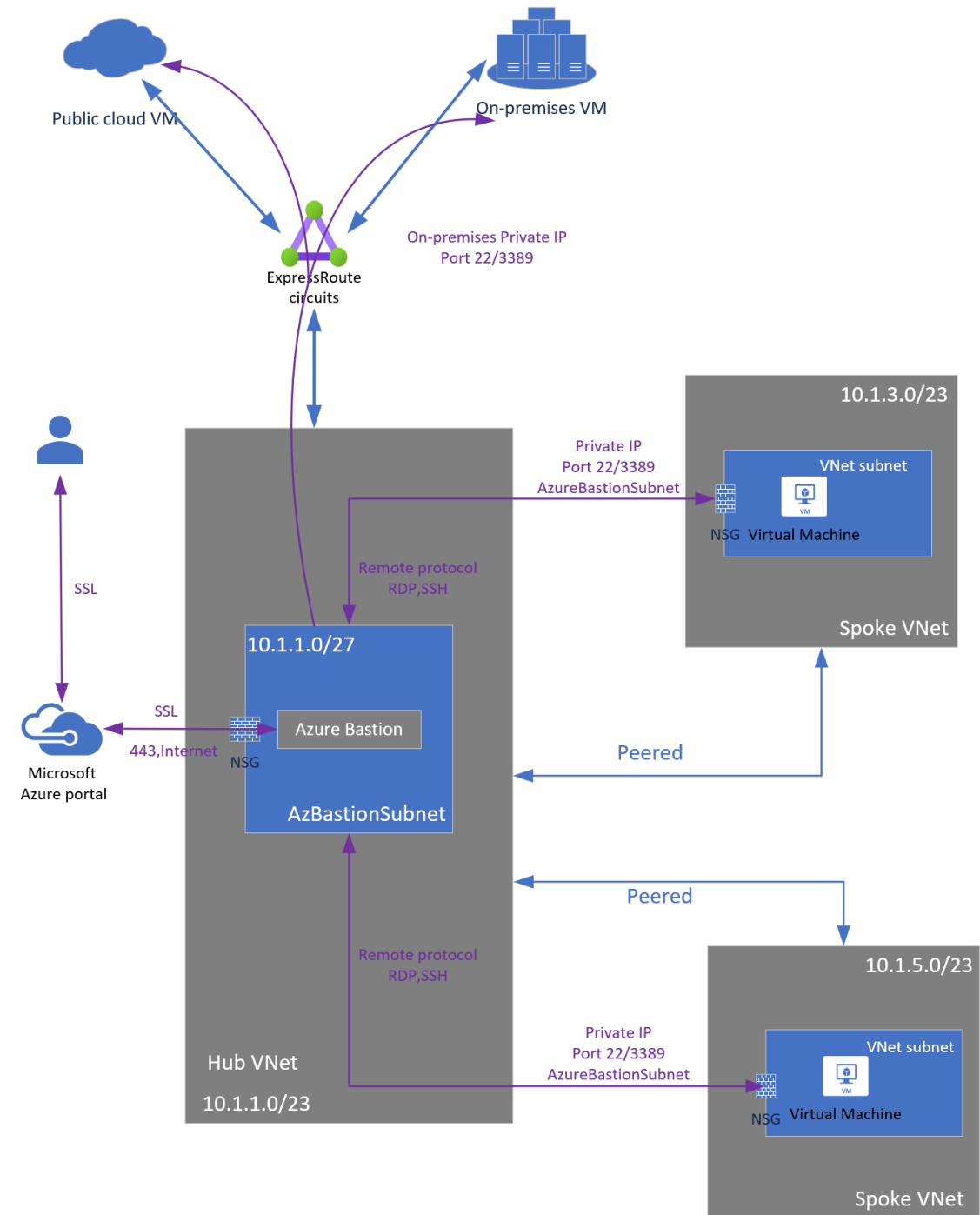
Bastion & on-prem

Bastion enables connection to on premises VMs.

Uses IP-based connection.

Works with ExpressRoute,
or a VPN site-to-site connection.

Requires the Standard SKU tier.



Cost of Bastion

Cost is based on :

- **SKU (Developer, Basic, Standard)**
- **number of instances**
- **outbound data**

azure.microsoft.com/en-us/pricing/details/azure-bastion

	Price ²
Azure Bastion Basic	\$0.19 per hour
Azure Bastion Standard	\$0.29 per hour
Additional Standard Instance ¹	\$0.14 per hour

Outbound data transfer	Price ¹
First 5 GB / month	Free
5 GB - 10 TB ² / month	\$0.087 per GB
Next 40 TB (10 TB - 50 TB) / month	\$0.083 per GB
Next 100 TB (50 TB - 150 TB) / month	\$0.07 per GB
Next 350 TB (150 TB - 500 TB) / month	\$0.05 per GB
Over 500 TB / month	Contact us

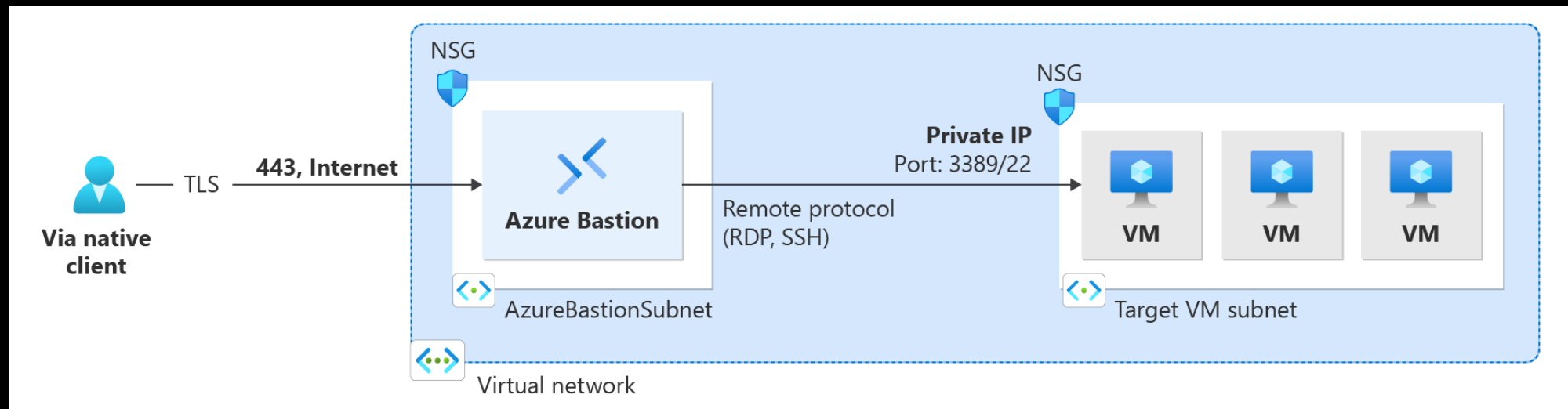
Bastion connection with native client

SSH to a Linux VM

```
az network bastion ssh -n bastion-host -g rg-bastion --target-resource-id  
/subscriptions/.../virtualMachines/vm-01 --auth-type password --username azureuser
```

RDP to a Windows VM

```
az network bastion rdp ...
```



Connect with Bastion SSH and RDP - demo

