

Reva Cloud fundamentals Assignment

Microsoft Azure

Search resources, services, and docs (G+ /)

Copilot

Srinath.CS13@race.reva...
REVA UNIVERSITY (REVA.EDU.IN)

Resources

Recent Favorite

Name	Type	Last Viewed
Srinath-WebVM	Virtual machine	15 minutes ago
srinath-webvm978_z3	Network Interface	20 minutes ago
Srinath-DataVM	Virtual machine	22 minutes ago
Srinath-RG	Resource group	23 minutes ago
Srinath-NSG-Web	Network security group	47 minutes ago
Srinath-MgmtVM	Virtual machine	3 hours ago
Srinath-MgmtVM_group	Resource group	3 hours ago
Srinath-NSG-Data	Network security group	4 hours ago
Srinath-NSG-Mgmt	Network security group	4 hours ago
Srinath-VNET-Core	Virtual network	4 hours ago
Srinath-VNET-Services	Virtual network	4 hours ago

See all

Microsoft Azure

Search resources, services, and docs (G+ /)

Copilot

Srinath.CS13@race.reva...
REVA UNIVERSITY

Home > Compute infrastructure | Virtual machines > Srinath-WebVM

Srinath-WebVM | Network settings

Virtual machine

in bound

Backup + disaster recovery

Restore point

Operations

Health monitoring

Inventory

Change tracking

Monitoring

Insights

Dagnostic settings

Help

VM Inspector (Preview)

Support + Troubleshooting

This is a new experience. Please provide feedback

Network security group Srinath-WebVM-nsg (attached to networkInterface: srinath-webvm978_z3)
Impacts 0 subnets, 1 network interfaces

Create port rule

Search rules

Source == all Destination == all Protocol == all Action == all

Priority ↑	Name	Port	Protocol	Source	Destination
Inbound port rules (5)					
1000	default-allow-ssh	22	TCP	Any	Any
1010	AllowFromWebVM	80	Any	Any	Any
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any
65500	DenyAllInBound	Any	Any	Any	Any
Outbound port rules (3)					

Reva Cloud fundamentals Assignment

The image shows a screenshot of the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, a search bar, and the user profile 'Srinath.CS13@race.reva... REVA UNIVERSITY'. The main content area is titled 'Compute infrastructure | Virtual machines'. On the left, a sidebar lists navigation options: Overview, All resources, Infrastructure, Virtual machines (selected), Virtual Machine Scale Set (VMSS), Compute Fleet, Disks + images, Capacity + placement, Related services, and Help. The main area displays a table of virtual machines with columns: Name, Subscription, Resource Group, Location, Status, Operating system, and Size. Three VMs are listed: Srinath-DataVM, Srinath-MgmtVM, and Srinath-WebVM, all running in the East US location. Below the table, there are filter buttons for Subscription, Type, Resource Group, and Location. A secondary window titled 'SSH using Azure CLI' is open, showing instructions for connecting to the VM. It includes a 'Public IP address | 20.83.168.71' and a section for 'Configure prerequisites for SSH using Azure CLI'. At the bottom, a terminal window shows the execution of commands to install and start the nginx service on the Srinath-WebVM.

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

Srinath.CS13@race.reva... REVA UNIVERSITY

Home > Compute infrastructure

Compute infrastructure | Virtual machines

Search

Virtual machines Get started

Overview

All resources

Infrastructure

Virtual machines

Virtual Machine Scale Set (VMSS)

Compute Fleet

Disks + images

Capacity + placement

Related services

Help

+ Create Switch to classic Reservations Manage view Refresh Export to CSV Group by none

You are viewing a new version of Browse experience. Click here to access the old experience.

Filter for any field...

Subscription equals all Type equals all Resource Group equals all Location equals all Add filter

Name	Subscription	Resource Group	Location	Status	Operating syst...	Size
Srinath-DataVM	Azure for Stude...	Srinath-RG	East US	Running	Linux	Standarc
Srinath-MgmtVM	Azure for Stude...	Srinath-MgmtV...	East US	Running	Windows	Standarc
Srinath-WebVM	Azure for Stude...	Srinath-RG	East US	Running	Linux	Standarc

SSH using Azure CLI

Connect from the Azure portal

Connect from your local machine

1 Configure prerequisites for SSH using Azure CLI

Azure needs to configure some features in order to connect to the VM.

- Prerequisites configured
- System assigned managed identity

Azure will configure a system-assigned managed identity in order to enable the Microsoft Entra ID login extension. [Learn more](#)

Switch to PowerShell Restart Manage files New session Editor Web preview Settings Help

```
Synchronizing state of nginx.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable nginx
Synchronizing state of nginx.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable nginx
srinath.cs13@race.reva.edu.in@Srinath-WebVM:~$ srinath.cs13@race.reva.edu.in@Srinath-WebVM:~$ sudo systemctl enable nginx
srinath.cs13@race.reva.edu.in@Srinath-WebVM:~$ srinath.cs13@race.reva.edu.in@Srinath-WebVM:~$
srinath.cs13@race.reva.edu.in@Srinath-WebVM:~$ ssuuddoo ssyysstteemmccttll ssttaarrtt nnggiinnxx
srinath.cs13@race.reva.edu.in@Srinath-WebVM:~$ srinath.cs13@race.reva.edu.in@Srinath-WebVM:~$
srinath.cs13@race.reva.edu.in@Srinath-WebVM:~$ srinath.cs13@race.reva.edu.in@Srinath-WebVM:~$
srinath.cs13@race.reva.edu.in@Srinath-WebVM:~$ sudo systemctl start nginx
srinath.cs13@race.reva.edu.in@Srinath-WebVM:~$ srinath.cs13@race.reva.edu.in@Srinath-WebVM:~$
```

Reva Cloud fundamentals Assignment

Microsoft Azure | Search resources, services, and docs (G+)

Home > Compute infrastructure > Virtual machines > Srinath-WebVM

Srinath-WebVM | Connect

Virtual machine

Search

Refresh Troubleshoot More Options

Connecting using Public IP address | 20.83.168.71

Admin username azureuser

SSH using Azure CLI

Connect from the Azure portal

Connect from your local machine

1 Configure prerequisites for SSH using Azure CLI

Azure needs to configure some features in order to connect to the VM.

Prerequisites configured

System assigned managed identity

Azure will configure a system-assigned managed identity in order to enable the Microsoft Entra ID login extension. [Learn more](#)

Switch to PowerShell Restart Manage files New session Editor Web preview Settings Help

```
Waiting for cache lock: Could not get lock /var/lib/dpkg/lock-frontent. It is held by process 3390 (apt)
Waiting for cache lock: Could not get lock /var/lib/dpkg/lock-frontent. It is held by process 3390 (apt)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
nginx is already the newest version (1.18.0-6ubuntu14.6).
0 upgraded, 0 newly installed, 0 to remove and 28 not upgraded.
srinath.cs13@race.reva.edu.in@Srinath-WebVM:~$ ssuuddoo ssysstteemmccttll eennaabbllee nnggiinnxx

Synchronizing state of nginx.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable nginx
Synchronizing state of nginx.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable nginx
srinath.cs13@race.reva.edu.in@Srinath-WebVM:~$ srinath.cs13@race.reva.edu.in@Srinath-WebVM:~$
```

CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20250712150142 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

Your deployment is complete

Deployment name: CreateVm-canonical.0001-com-u... Start time: 12/07/2025, 15:08:24

Subscription: Azure for Students Correlation ID: 223fd93c-b4a3-45ab-

Resource group: Srinath-RG

Deployment details

Next steps

Setup auto-shutdown Recommended

Monitor VM health, performance and network dependencies Recommended

Run a script inside the virtual machine Recommended

Go to resource Create another VM

Give feedback

Tell us about your experience with deployment

Cost Management

Get notified to stay within your budget and prevent unexpected charges on your bill. [Set up cost alerts >](#)

Microsoft Defender for Cloud

Secure your apps and infrastructure [Go to Microsoft Defender for Cloud >](#)

Free Microsoft tutorials

Start learning today >

Home > Compute infrastructure > 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

Basics Disks Networking Management Monitoring

Price

1 X Standard B1s by Microsoft

Subscription credits apply

0.0104 USD/hr

Terms of use | Privacy policy

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement 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

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

Reva Cloud fundamentals Assignment

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

Basics

Disks

Networking

Management

Monitoring

Advanced

Tags

Review + create

Price

1 X Standard B1s

by Microsoft

[Terms of use](#) | [Privacy policy](#)

Subscription credits apply

0.0104 USD/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 information with its service providers for the purpose of providing the offering(s) to me.

< Previous

Next >

Create

Download a template for automation

Give feedback

Home >

CreateVm-MicrosoftWindowsServer.WindowsServer-202-20250712124410

Deployment

Search

Delete

Cancel

Redeploy

Download

Refresh

Overview

Inputs

Outputs

Template

Deployment details

Next steps

Go to resource

Create another VM

Give feedback

Deployment succeeded

Deployment 'CreateVm-MicrosoftWindowsServer.WindowsServer-202-20250712124410' to resource group 'Srinath-MgmtVM_group' was successful.

Go to resource

Pin to dashboard

Cost Management

Get notified to stay within your budget and prevent unexpected charges on your bill.

[Set up cost alerts >](#)

Microsoft Defender for Cloud

Secure your apps and infrastructure

[Go to Microsoft Defender for Cloud >](#)

Free Microsoft tutorials

[Start learning today >](#)

Home >

Srinath-NSG-Web

Network security group

Search

Move

Delete

Refresh

Give feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

Settings

Inbound security rules

Outbound security rules

Network interfaces

Subnets

Properties

Locks

Tags

Filter by name

Port == all

Protocol == all

Source == all

Destination == all

Action == all

Priority	Name	Port	Protocol	Source	Destination
Inbound Security Rules					
200	Allow-HTTP-Web	80	TCP	Any	Any
210	Allow-HTTPS-Web	443	TCP	Any	Any
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork
65001	AllowAzureLoadBalanc...	Any	Any	AzureLoadBalancer	Any
65500	DenyAllInBound	Any	Any	Any	Any
Outbound Security Rules					
4096	Deny-All-Inbound	80	Any	Any	Any

Reva Cloud fundamentals Assignment

Home > Srinath-NSG-Mgmt

Srinath-NSG-Mgmt | Inbound security rules

Network security group

Search

+ Add

Hide default rules

Refresh

Delete

Give feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

Settings

Inbound security rules

Outbound security rules

Network interfaces

Subnets

Properties

Filter by name

Port == allProtocol == allSource == allDestination == allAction == all

Priority	Name	Port	Protocol	Source	Destination
100	Allow-RDP-Mgmt	3389	TCP	49.47.217.4	Any
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork
65001	AllowAzureLoadBalanc...	Any	Any	AzureLoadBalancer	Any
65500	DenyAllInBound	Any	Any	Any	Any

Network security group security rules are evaluated by priority using the combination of source, source port, destination, destination port, and protocol to allow or deny the traffic. A security rule can't have the same priority and direction as an existing rule. You can't delete default security rules, but you can override them with rules that have a higher priority. [Learn more](#)

Microsoft Azure

Search resources, services, and docs (G+/)

Copilot

Home >

Microsoft.NetworkSecurityGroup-20250712120455 | Overview

Deployment

Search

Delete

Cancel

Redeploy

Download

Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name : Microsoft.NetworkSecuri...

Start time : 12/07/2025, 12:05:22

Subscription : Azure for Students

Correlation ID : 4f2a075b-5ef6-4ab6-a4d...

Resource group : Srinath-RG


Deployment details

Resource	Type	Status
Srinath-NSG-Data	Network security group	OK






Next steps


Reva Cloud fundamentals Assignment


[Home](#) >


**Microsoft.NetworkSecurityGroup-20250712120232** | Overview ...


Deployment


x <<  Delete  Cancel  Redeploy  Download  Refresh


 Overview


 Inputs



 Outputs ☆


 Template


 **Your deployment is complete**


 Deployment name : Microsoft.NetworkSecuri... Start time : 12/07/2025, 12:03:19
Subscription : [Azure for Students](#) Correlation ID : 389587f4-e280-40f6-9b2...
Resource group : [Srinath-RG](#)

 Deployment details

Resource	Type	Status
 Srinath-NSG-Web	 Network security group	OK

 Next steps

**Cost management**
Get notified to stay within your budget and prevent unexpected charges on your bill.
[Set up cost alerts >](#)

**Microsoft Defender for Cloud**
Secure your apps and infrastructure
[Go to Microsoft Defender for Cloud >](#)

Free Microsoft tutorials
[Start learning today >](#)

[Home](#) > [Network foundation](#) | [Network security groups](#) >

Create network security group ...

Basics Tags Review + create

Project details

Subscription *

Azure for Students

Resource group *

Srinath-RG

[Create new](#)

Instance details

Name *

Srinath-NSG-Mgmt

Region *

East US

Reva Cloud fundamentals Assignment

Home > Srinath-VNET-Services

Srinath-VNET-Services | Peerings

Virtual network

Search

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

Settings

Address space

Connected devices

+ Add Refresh Export to CSV Delete Sync

Virtual network peering enables you to seamlessly connect two or more virtual networks in Azure. The virtual networks appear as one for connectivity purposes. [Learn more](#)

Filter by name...

Showing all 1 items

<input type="checkbox"/>	Name ↑↓	Peering sync status ↑↓	Peeri... ↑↓	Remo... ↑↓	Virtu... ↑↓	Cross-tenant ↑↓
<input type="checkbox"/>	ServicesToCore	Fully Synchronized	Connected	Srinath-...	Disabled	No

Home >



Srinath-VNET-Services-1752301083459 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

Your deployment is complete

Deployment name : Srinath-VNET-Services-17... Start time : 12/07/2025, 11:48:03
Subscription : [Azure for Students](#) Correlation ID : 884564dd-2e99-4744-bbd...
Resource group : [Srinath-RG](#)

> Deployment details

> Next steps

[Go to resource](#)

Give feedback

[Tell us about your experience with deployment](#)

Home >



Srinath-VNET-Core-1752300855185 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

Deployment is in progress

Deployment name : Srinath-VNET-Core-17523... Start time : 12/07/2025, 11:44:03
Subscription : [Azure for Students](#) Correlation ID : 4a92bd10-38ce-4490-8d6...
Resource group : [Srinath-RG](#)

> Deployment details

Resource	Type	Status
<input checked="" type="checkbox"/> Srinath-VNET-Core	Virtual network	OK

Give feedback

[Tell us about your experience with deployment](#)

Deployment succeeded
Deployment 'Srinath-VNET-Core-1752300855185' to resource group 'Srinath-RG' was successful.

[Go to resource](#)

[Pin to dashboard](#)



Microsoft Defender for Cloud

Secure your apps and infrastructure

[Go to Microsoft Defender for Cloud >](#)

Free Microsoft tutorials

[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 >](#)

Reva Cloud fundamentals Assignment

Create virtual network ...

Basics Security IP addresses Tags Review + create

192.168.0.0/16

192.168.0.0/16

/16

192.168.0.0 - 192.168.255.255 65,536 addresses

Delete address space

Subnets	IP address range	Size	NAT gateway
WebTier	192.168.10.0 - 192.168.10.255	/24 (256 addresses)	-
MgmtSubnet	192.168.20.0 - 192.168.20.255	/24 (256 addresses)	-

Previous

Next

Review + create

Reva Cloud fundamentals Assignment

[Home](#) > [Network foundation | Virtual networks](#) >

Create virtual network ...

Basics Security IP addresses Tags Review + create

Subscription *

Azure for Students

Resource group *

Srinath-RG

[Create new](#)

Instance details

Virtual network name *

Srinath-VNET-Core

Region * ⓘ

(US) East US

[Deploy to an Azure Extended Zone](#)

Create a resource group ...

Basics Tags **Review + create**

[Automation Link](#)

Basics

Subscription	Azure for Students
Resource group name	Srinath-RG
Region	East US

Tags

None