

The background is a deep blue gradient with a starry space texture. Overlaid on this are several faint, white, circular and semi-circular patterns. Some of these patterns resemble protractor scales with degree markings (e.g., 40, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260). Other patterns are simple concentric circles or arcs, some with small arrowheads indicating a direction of movement or rotation. The overall aesthetic is technical and futuristic.

MINOR PROJECT-1 AZURE CLOUD COMPUTING

PITHANA MONISHA ANILA

Communication between two different Azure sites with Private IPs in same Azure Cloud- Vnet TO Vnet

Steps:

1. Create Virtual Network
2. Create Gateway Subnet
3. Create Virtual Network Gateway
4. Create Vnet-to-Vnet Peering

TestVnet1 - Microsoft A x + v

https://portal.azure.com/#@monishaanila1999gmail.onmicrosoft.com/resource/subscriptions/d0dd1006-f299-4b20-b784-830ed13

Microsoft Azure

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Home > TestVnet1

Create a resource

All services

FAVORITES

- Dashboard
- All resources
- Resource groups
- App Services
- Function Apps
- SQL databases
- Azure Cosmos DB
- Virtual machines
- Load balancers
- Storage accounts
- Virtual networks
- Azure Active Directory
- Monitor

TestVnet1 Virtual network

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

SETTINGS

- Address space
- Connected devices
- Subnets
- DDoS protection
- DNS servers
- Peerings
- Service endpoints
- Properties
- Locks

Refresh Move Delete

Resource group [change](#) TestRG1

Location East US

Subscription [change](#) Free Trial

Subscription ID d0dd1006-f299-4b20-b784-830ed13f3d1a

Tags [change](#) [Click here to add tags](#)

Address space 10.11.0.0/16

DNS servers Azure provided DNS service

Connected devices

Search connected devices

| DEVICE | TYPE | IP ADDRESS | SUBNET |
|-------------|------|------------|--------|
| No results. | | | |

TestVnet2 - Microsoft A x + v

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- Dashboard
- All resources
- Resource groups
- App Services
- Function Apps
- SQL databases
- Azure Cosmos DB
- Virtual machines
- Load balancers
- Storage accounts
- Virtual networks
- Azure Active Directory
- Monitor

TestVnet2
Virtual network

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
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SETTINGS

- Address space
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- Locks

Refresh Move Delete

Resource group (change)
TestRG2

Location
West US

Subscription (change)
Free Trial

Subscription ID
d0dd1006-f299-4b20-b784-830ed13f3d1a

Tags (change)
[Click here to add tags](#)

Address space
10.41.0.0/16

DNS servers
Azure provided DNS service

Connected devices

Search connected devices

| DEVICE | TYPE | IP ADDRESS | SUBNET |
|-------------|------|------------|--------|
| No results. | | | |

TestVnet1GW - Microso x + v

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- Azure Active Directory
- Monitor

TestVnet1GW
Virtual network gateway

Search (Ctrl+/)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

SETTINGS

- Configuration
- Connections
- Point-to-site configuration
- Properties
- Locks
- Automation script

MONITORING

- Metrics (Preview)

Move Delete

Resource group (change)
TestRG1

Location
East US

Subscription (change)
Free Trial

Subscription ID
d0dd1006-f299-4b20-b784-830ed13f3d1a

Tags (change)
Click here to add tags

SKU
VpnGw1

Gateway type
VPN

VPN type
Route-based

Virtual network
TestVnet1

Public IP address
40.121.19.45 (TestVnet1GWpip)

Type here to search

08:46 Pithana
18.6.18

TestVnet2GW2 - Micros

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Home > TestVnet2GW2

Create a resource

All services

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- Dashboard
- All resources
- Resource groups
- App Services
- Function Apps
- SQL databases
- Azure Cosmos DB
- Virtual machines
- Load balancers
- Storage accounts
- Virtual networks
- Azure Active Directory
- Monitor

TestVnet2GW2
Virtual network gateway

Search (Ctrl+/)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

SETTINGS

- Configuration
- Connections
- Point-to-site configuration
- Properties
- Locks
- Automation script

MONITORING

- Metrics (Preview)

Move Delete

Resource group (change)
TestRG2

Location
West US

Subscription (change)
Free Trial

Subscription ID
d0dd1006-f299-4b20-b784-830ed13f3d1a

Tags (change)
Click here to add tags

SKU
Basic

Gateway type
VPN

VPN type
Route-based

Virtual network
TestVnet2

Public IP address
104.42.252.249 (TestVnet2GW2pip)

Type here to search

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Dashboard - Microsoft, x + -

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Home > TestVnet1VM

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All services

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- Dashboard
- All resources
- Resource groups
- App Services
- Function Apps
- SQL databases
- Azure Cosmos DB
- Virtual machines
- Load balancers
- Storage accounts
- Virtual networks
- Azure Active Directory
- Monitor

TestVnet1VM
Virtual machine

Search (Ctrl+/)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

SETTINGS

- Networking
- Disks
- Size
- Security
- Extensions
- Continuous delivery (Preview)
- Availability set
- Configuration
- Properties

Connect Start Restart Stop Capture Move Delete Refresh

Resource group (change)
TestRG1

Status
Running

Location
East US

Subscription (change)
Free Trial

Subscription ID
d0dd1006-f299-4b20-b784-830ed13f3d1a

Computer name
TestVnet1VM

Operating system
Windows

Size
Standard B1ms (1 vcpu, 2 GB memory)

Public IP address
40.76.7.222

Virtual network/subnet
TestVnet1/Frontend

DNS name
Configure

Tags (change)
Click here to add tags

Show data for last: 1 hour 6 hours 12 hours 1 day 7 days 30 days

CPU (average)

Network (total)

08:00 Pithana 08:15 Pithana 08:30 Pithana

08:00 Pithana 08:15 Pithana 08:30 Pithana

Type here to search

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Dashboard - Microsoft | <https://portal.azure.com/#@monishaanila1999gmail.onmicrosoft.com/resource/subscriptions/d0dd1006-f299-4b20-b784-830ed13>

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Home > Tesvnet2VM

Tesvnet2VM

Virtual machine

Search (Ctrl+/)

Connect Start Restart Stop Capture Move Delete Refresh

Resource group (change) TestRG2

Status Running

Location West US

Subscription (change) Free Trial

Subscription ID d0dd1006-f299-4b20-b784-830ed13f3d1a

Tags (change) Click here to add tags

Computer name Tesvnet2VM

Operating system Windows

Size Standard B1ms (1 vcpu, 2 GB memory)

Public IP address 40.118.227.208

Virtual network/subnet TestVnet2/Frontend

DNS name Configure

Show data for last: 1 hour 6 hours 12 hours 1 day 7 days 30 days

CPU (average)

| Time | CPU (average) |
|-------|---------------|
| 08:00 | 0% |
| 08:05 | 0% |
| 08:10 | 0% |
| 08:15 | 60% |
| 08:20 | 20% |
| 08:25 | 40% |
| 08:30 | 20% |

Network (total)

| Time | Network (total) |
|-------|-----------------|
| 08:00 | 0MB |
| 08:05 | 0MB |
| 08:10 | 0MB |
| 08:15 | 0MB |
| 08:20 | 8MB |
| 08:25 | 12MB |
| 08:30 | 0MB |

Networking - Microsoft x + v

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Home > TestVnet1VM - Networking

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All services

FAVORITES

- Dashboard
- All resources
- Resource groups
- App Services
- Function Apps
- SQL databases
- Azure Cosmos DB
- Virtual machines
- Load balancers
- Storage accounts
- Virtual networks
- Azure Active Directory
- Monitor

TestVnet1VM - Networking

Virtual machine

Search (Ctrl+/)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

SETTINGS

- Networking
- Disks
- Size
- Security
- Extensions
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Attach network interface Detach network interface

Network Interface: testvnet1vm430 Effective security rules Topology

Virtual network/subnet: TestVnet1/Frontend Public IP: 40.76.7.222 Private IP: 10.11.0.4 Accelerated networking: Disabled

This network interface does not contain network security groups

Type here to search

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Networking - Microsoft x + v

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Home > Tesvnet2VM - Networking

Tesvnet2VM - Networking Virtual machine

Create a resource

All services

FAVORITES

- Dashboard
- All resources
- Resource groups
- App Services
- Function Apps
- SQL databases
- Azure Cosmos DB
- Virtual machines
- Load balancers
- Storage accounts
- Virtual networks
- Azure Active Directory
- Monitor

Search (Ctrl+/)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

SETTINGS

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- Disks
- Size
- Security
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- Continuous delivery (Preview)
- Availability set
- Configuration
- Properties

Attach network interface Detach network interface

Network Interface: tesvnet2vm464 Effective security rules Topology

Virtual network/subnet: TestVnet2/Frontend Public IP: 40.118.227.208 Private IP: 10.41.0.4 Accelerated networking: Disabled

This network interface does not contain network security groups

Type here to search

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Connections - Microsoft

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Home > TestVnet1GW - Connections

TestVnet1GW - Connections
Virtual network gateway

Create a resource

All services

FAVORITES

- Dashboard
- All resources
- Resource groups
- App Services
- Function Apps
- SQL databases
- Azure Cosmos DB
- Virtual machines
- Load balancers
- Storage accounts
- Virtual networks
- Azure Active Directory
- Monitor

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

SETTINGS

- Configuration
- Connections
- Point-to-site configuration
- Properties
- Locks
- Automation script

MONITORING

- Metrics (Preview)

+ Add

Search connections

| NAME | STATUS | CONNECTION TYPE | PEER |
|----------------------|-----------|-----------------|------------------|
| TestVnet2toTestVnet1 | Connected | VNet-to-VNet | TestVnet2GW2 ... |
| TestVnet1toTestVnet2 | Connected | VNet-to-VNet | TestVnet2GW2 ... |

Type here to search

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Connections - Microsoft

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Home > TestVnet2GW2 - Connections

TestVnet2GW2 - Connections
Virtual network gateway

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All services

FAVORITES

- Dashboard
- All resources
- Resource groups
- App Services
- Function Apps
- SQL databases
- Azure Cosmos DB
- Virtual machines
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- Storage accounts
- Virtual networks
- Azure Active Directory
- Monitor

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

SETTINGS

- Configuration
- Connections
- Point-to-site configuration
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MONITORING

- Metrics (Preview)

+ Add

Search connections

| NAME | STATUS | CONNECTION TYPE | PEER |
|----------------------|-----------|-----------------|-------------|
| TestVnet2toTestVnet1 | Connected | VNet-to-VNet | TestVnet1GW |
| TestVnet1toTestVnet2 | Connected | VNet-to-VNet | TestVnet1GW |

Type here to search

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Recycle Bin

Administrator: Command Prompt

```
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Users\testvnet1>ping 10.41.0.4

Pinging 10.41.0.4 with 32 bytes of data:
Reply from 10.41.0.4: bytes=32 time=74ms TTL=127
Reply from 10.41.0.4: bytes=32 time=74ms TTL=127
Reply from 10.41.0.4: bytes=32 time=73ms TTL=127
Reply from 10.41.0.4: bytes=32 time=74ms TTL=127

Ping statistics for 10.41.0.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 73ms, Maximum = 74ms, Average = 73ms

C:\Users\testvnet1>
```



3:22 PM
6/18/2018



Recycle Bin

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Users\testvnet2>ping 10.11.0.4

Pinging 10.11.0.4 with 32 bytes of data:
Reply from 10.11.0.4: bytes=32 time=74ms TTL=127
Reply from 10.11.0.4: bytes=32 time=74ms TTL=127
Reply from 10.11.0.4: bytes=32 time=74ms TTL=127
Reply from 10.11.0.4: bytes=32 time=73ms TTL=127

Ping statistics for 10.11.0.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 73ms, Maximum = 74ms, Average = 73ms

C:\Users\testvnet2>
```



3:21 PM
6/18/2018

