

MAJOR PROJECT AZURE CLOUD COMPUTING

PITHANA MONISHA ANILA

Managing User traffic while accessing Web Applications hosted in different Data Centres and depending upon user location keeping performance in mind.

2

Steps:

- Creating Nested Traffic Manager inside a Main Traffic Manager with other Web Applications hosted inside the Main Traffic Manager with rules
- Create a Traffic Manager
- Create 2 web apps on different data centres like West India and West US
- Configuring both web apps on Traffic Manager Geographical rule
- Configuring Nested Traffic Manager Inside Main Traffic Manager with Geographical rule
- Keep the same web apps in Nested Traffic Manager with Performance rule
- Testing the scenario by making 1 web app down.

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

Microsoft Azure

Search resources, services, and docs

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Home > IndiaVM

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

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

Connect Start Restart Stop Capture Move Delete Refresh

Resource group [IndiaRG](#) (change)

Status Running

Location West India

Subscription [Free Trial](#) (change)

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

Tags (change)

[Click here to add tags](#)

Computer name IndiaVM

Operating system Windows

Size Standard B2s (2 vcpus, 4 GB memory)

Public IP address [104.211.155.24](#)

Virtual network/subnet [IndiaRG-vnet/default](#)

DNS name [Configure](#)

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

CPU (average)

Network (total)

07:15 Pithana 07:30 Pithana

Type here to search

ENG 07:56 Pithana 21.6.18

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

Microsoft Azure

Home > USvm

USvm
Virtual machine

Search (Ctrl+/)

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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 [\(change\)](#)
USRG

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
USvm

Operating system
Windows

Size
Standard B2s (2 vcpus, 4 GB memory)

Public IP address
[104.210.53.147](#)

Virtual network/subnet
[USRG-vnet/default](#)

DNS name
[Configure](#)

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

CPU (average)

Network (total)

07:07 Pithana 07:15 Pithana 07:30 Pithana

07:07 Pithana 07:15 Pithana 07:30 Pithana

Type here to search

ENG 07:56 Pithana 21.6.18

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

Microsoft Azure

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Home > Indiaapp2106

Create a resource

All services

FAVORITES

- Dashboard
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- Virtual machines
- Load balancers
- Storage accounts
- Virtual networks
- Azure Active Directory
- Monitor

Indiaapp2106 App Service

Search (Ctrl+/)

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Access control (IAM)

Tags

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- Quickstart
- Deployment credentials
- Deployment slots
- Deployment options
- Deployment Center (Preview)

SETTINGS

- Application settings
- Authentication / Authorization
- Application Insights

Resource group (change) IndiaRG

Status Running

Subscription (change) Free Trial

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

URL <https://indiaapp2106.azurewebsites.net>

App Service plan/pricing tier appplan (Standard: 1 Small)

FTP/deployment username Indiaapp2106\monishaanila

FTP hostname ftp://waws-prod-bm1-001.ftp.azurewebsites.windows.net

FTPS hostname ftps://waws-prod-bm1-001.ftp.azurewebsites.windows.net

Diagnose and solve problems

Application Insights

App Service Advisor

Http 5xx

Data In

05:30 Anila

07:00 Pithana 07:15 Pithana 07:30 Pithana

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ENG 07:57 Pithana 21.6.18

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Dashboard - Microsoft, x

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Microsoft Azure

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Home > Usapps2106

Usapps2106
App Service

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

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Deployment credentials

Deployment slots

Deployment options

Deployment Center (Preview)

SETTINGS

Application settings

Authentication / Authorization

Application Insights

Browse Stop Swap Restart Delete Get publish profile Reset publish profile

Resource group (change)
USRG

Status
Running

Location
West US

Subscription (change)
Free Trial

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

URL
<https://usapps2106.azurewebsites.net>

App Service plan/pricing tier
appplan1 (Standard: 1 Small)

FTP/deployment username
Usapps2106\monishaanila

FTP hostname
ftps://waws-prod-bay-059.ftp.azurewebsites.windows.net

FTPS hostname
ftps://waws-prod-bay-059.ftp.azurewebsites.windows.net

Diagnose and solve problems
Our self-service diagnostic and troubleshooting experience helps you identify and resolve issues with your web app.

Application Insights
Application Insights helps you detect and diagnose quality issues in your apps, and helps you understand what your users actually do with it.

App Service Advisor
App Service Advisor provides insights for improving app experience on the App Service platform. Recommendations are sorted by freshness, priority and impact to your app.

Http 5xx

Data In

05:30 Anila

07:00 Pithana 07:15 Pithana 07:30 Pithana

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Microsoft Azure

GeoTraffic - Microsoft A

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Search resources, services, and docs

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Home > GeoTraffic

GeoTraffic
Traffic Manager profile

Search (Ctrl+/)

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Real user measurements

Traffic view

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Locks

Automation script

MONITORING

Monitor (Overview)

Enable profile

Disable profile

Refresh

Move

Delete profile

Essentials

Resource group (change)
Geo

Status
Enabled

Subscription name (change)
Free Trial

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

DNS name
<http://geotrafic.trafficmanager.net>

Monitor status
Online

Routing method
Geographic

Search endpoints

| NAME | STATUS | MONITOR STATUS | TYPE |
|------------|---------|----------------|-----------------|
| India | Enabled | Online | Azure endpoint |
| Usendpoint | Enabled | Online | Azure endpoint |
| NestTM | Enabled | Online | Nested endpoint |

Type here to search

08:00 Pithana
21.6.18

7

Microsoft Azure portal interface showing the NestedTraffic Traffic Manager profile configuration.

Navigation Menu (Left):

- 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

Profile Configuration (NestedTraffic):

- Enable profile
- Disable profile
- Refresh
- Move
- Delete profile

Essentials:

- Resource group (change): [Nestt](#)
- Status: Enabled
- Subscription name (change): [Free Trial](#)
- Subscription ID: d0dd1006-f299-4b20-b784-830ed13f3d1a
- DNS name: <http://nestedtraffic.trafficmanager.net>
- Monitor status: Online
- Routing method: Performance

Endpoints Table:

| NAME | STATUS | MONITOR STATUS | TYPE | LOCATION |
|------------|---------|----------------|----------------|------------|
| India | Enabled | Online | Azure endpoint | West India |
| Usendpoint | Enabled | Online | Azure endpoint | West US |

Taskbar (Bottom):

- Search: Type here to search
- System tray: 08:01 Pithana, 21.6.18

8


```
Command Prompt
Microsoft Windows [Version 10.0.17134.112]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\HP>ping 104.211.155.24

Pinging 104.211.155.24 with 32 bytes of data:
Reply from 104.211.155.24: bytes=32 time=53ms TTL=118
Reply from 104.211.155.24: bytes=32 time=54ms TTL=118
Reply from 104.211.155.24: bytes=32 time=55ms TTL=118
Reply from 104.211.155.24: bytes=32 time=56ms TTL=118

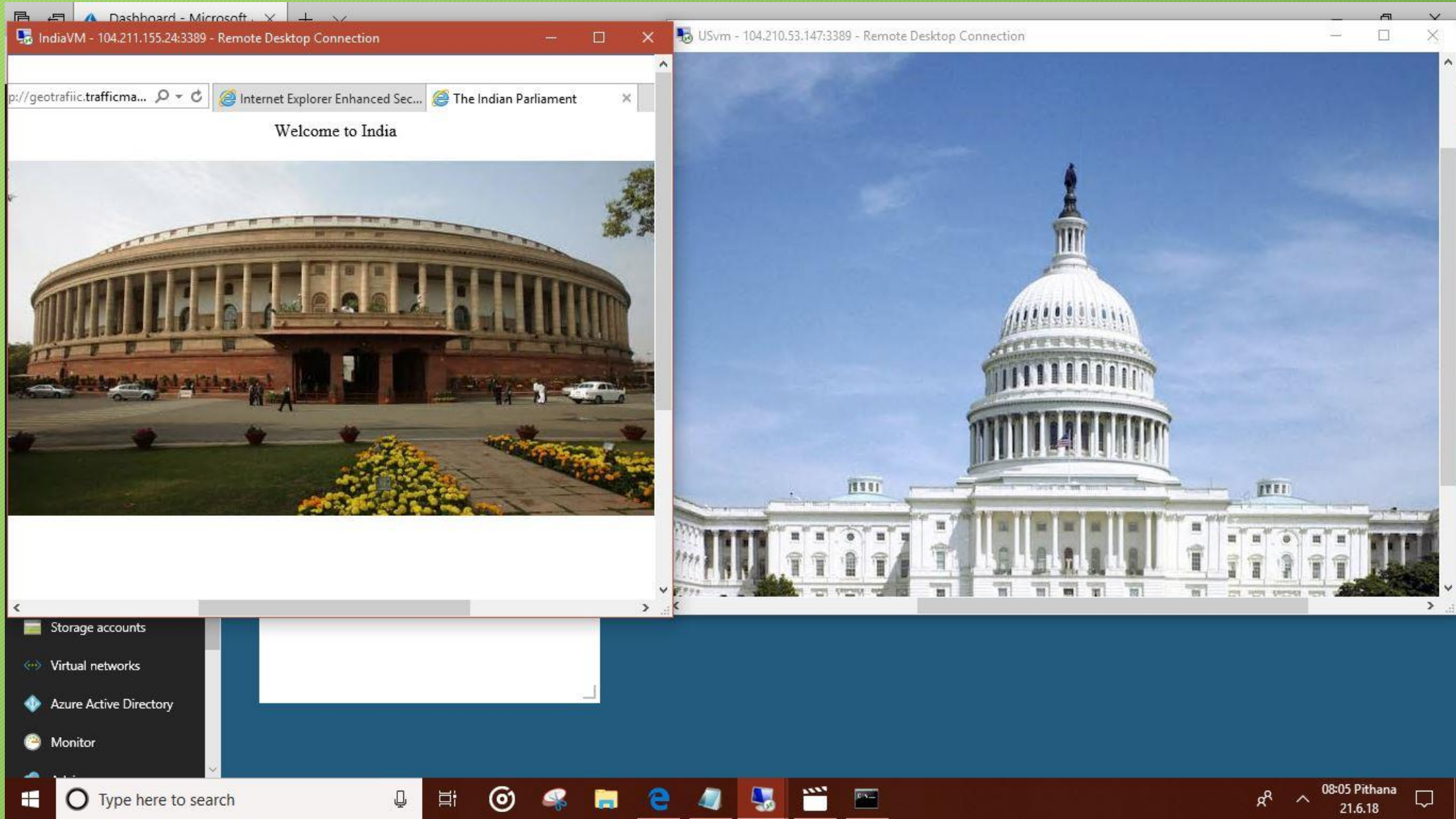
Ping statistics for 104.211.155.24:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 53ms, Maximum = 56ms, Average = 54ms

C:\Users\HP>ping 104.210.53.147

Pinging 104.210.53.147 with 32 bytes of data:
Reply from 104.210.53.147: bytes=32 time=296ms TTL=108
Reply from 104.210.53.147: bytes=32 time=292ms TTL=108
Reply from 104.210.53.147: bytes=32 time=301ms TTL=108
Reply from 104.210.53.147: bytes=32 time=292ms TTL=108

Ping statistics for 104.210.53.147:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 292ms, Maximum = 301ms, Average = 295ms

C:\Users\HP>
```



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

Microsoft Azure

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MONISHAANILA1999GMAIL (...)

Home > Usapps2106

Usapps2106
App Service

Create a resource

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Search (Ctrl+J)

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- Quickstart
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- Deployment Center (Preview)

SETTINGS

- Application settings
- Authentication / Authorization
- Application Insights

Start

Swap

Restart

Delete

Get publish profile

Reset publish profile

Your app is stopped. App Service plan charges still apply.

Resource group (change)
USRG

Status
Stopped

Location
West US

Subscription (change)
Free Trial

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

URL
<https://usapps2106.azurewebsites.net>

App Service plan/pricing tier
appplan1 (Standard: 1 Small)

FTP/deployment username
Usapps2106\monishaanila

FTP hostname
ftp://waws-prod-bay-059.ftp.azurewebsites.windows.net

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ftps://waws-prod-bay-059.ftp.azurewebsites.windows.net

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Http 5xx

Data In

40kB

30kB

20kB

10kB

Type here to search

07:57 Pithana
21.6.18

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Microsoft Azure

GeoTraffic - Microsoft A

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

Search resources, services, and docs

monishaanila1999@g...
MONISHAANILA1999GMAIL (...)

Home > GeoTraffic

GeoTraffic
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Monitor (Overview)

Enable profile

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Move

Delete profile

Essentials

Resource group (change)
Geo

Status
Enabled

Subscription name (change)
Free Trial

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

DNS name
<http://geotrafic.trafficmanager.net>

Monitor status
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Routing method
Geographic

Search endpoints

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Type here to search

07:58 Pithana
21.6.18

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Navigation Menu:

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- SQL databases
- Azure Cosmos DB
- Virtual machines
- Load balancers
- Storage accounts
- Virtual networks
- Azure Active Directory
- Monitor

Left Panel (NestedTraffic Traffic Manager profile):

- Overview (selected)
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- SETTINGS
 - Configuration
 - Real user measurements
 - Traffic view
 - Endpoints
 - Properties
 - Locks
 - Automation script
- MONITORING
 - Machine (Preview)

Right Panel (Essentials):

Enable profile | Disable profile | Refresh | Move | Delete profile

Resource group (change): Nestt

Status: Enabled

Subscription name (change): Free Trial

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

DNS name: <http://nestedtraffic.trafficmanager.net>

Monitor status: Online

Routing method: Performance

Search endpoints:

| NAME | STATUS | MONITOR STATUS | TYPE | LOCATION |
|------------|----------|----------------|----------------|------------|
| India | Enabled | Online | Azure endpoint | West India |
| Usendpoint | Disabled | Disabled | Azure endpoint | West US |

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