

How to configure Site to Site in Azure with SKU Basic

In this post, I will show you how to create and configure Site to Site(S2S) VPN connection in Azure. I am performing this exercise to reduce monthly charge.

As of now, I have Site to Site (S2S) in Azure with SKU VpnGW1. With this configuration, I am spending CAD.6 per day. For the period ending 30th Sep 2020, I have already spent over CAD.55. It is way too expensive for home lab learning. Here is the screen shot of the cost analysis from Azure.



So, I am going to configure S2S with Basic SKU. Here are the details.

I have deleted previous S2S VPN Gateway. So, now, I have just Virtual Network and its subnet. Here is the screen shot.

Dashboard >

Virtual networks

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+ Add Manage view Refresh Export to CSV Open query Assign tags Feedback

Filter by name... Subscription == all Resource group == all Location == all Add filter

Showing 1 to 1 of 1 records.

Name	Resource group	Location
LabVM-vnet	LabVM	East US 2

LabVM-vnet | Subnets

Virtual network

Search (Ctrl+/) Subnet Gateway subnet Refresh

Search subnets

Name	IPv4
GatewaySubnet	10.0.1.0/24 (251 available)
default	10.0.0.0/24 (249 available)

LabVM-vnet | Connected devices

Virtual network

Search (Ctrl+/) Refresh

Search connected devices

Device	Type
dcazure200	Network interface
wvd-dt-0-nic	Network interface

LabVM-vnet | Address space

Virtual network

Search (Ctrl+/) Save Discard

10.0.0.0/16

Add additional address range

LabVM-vnet | DNS servers

Virtual network

Search (Ctrl+/) Save Discard

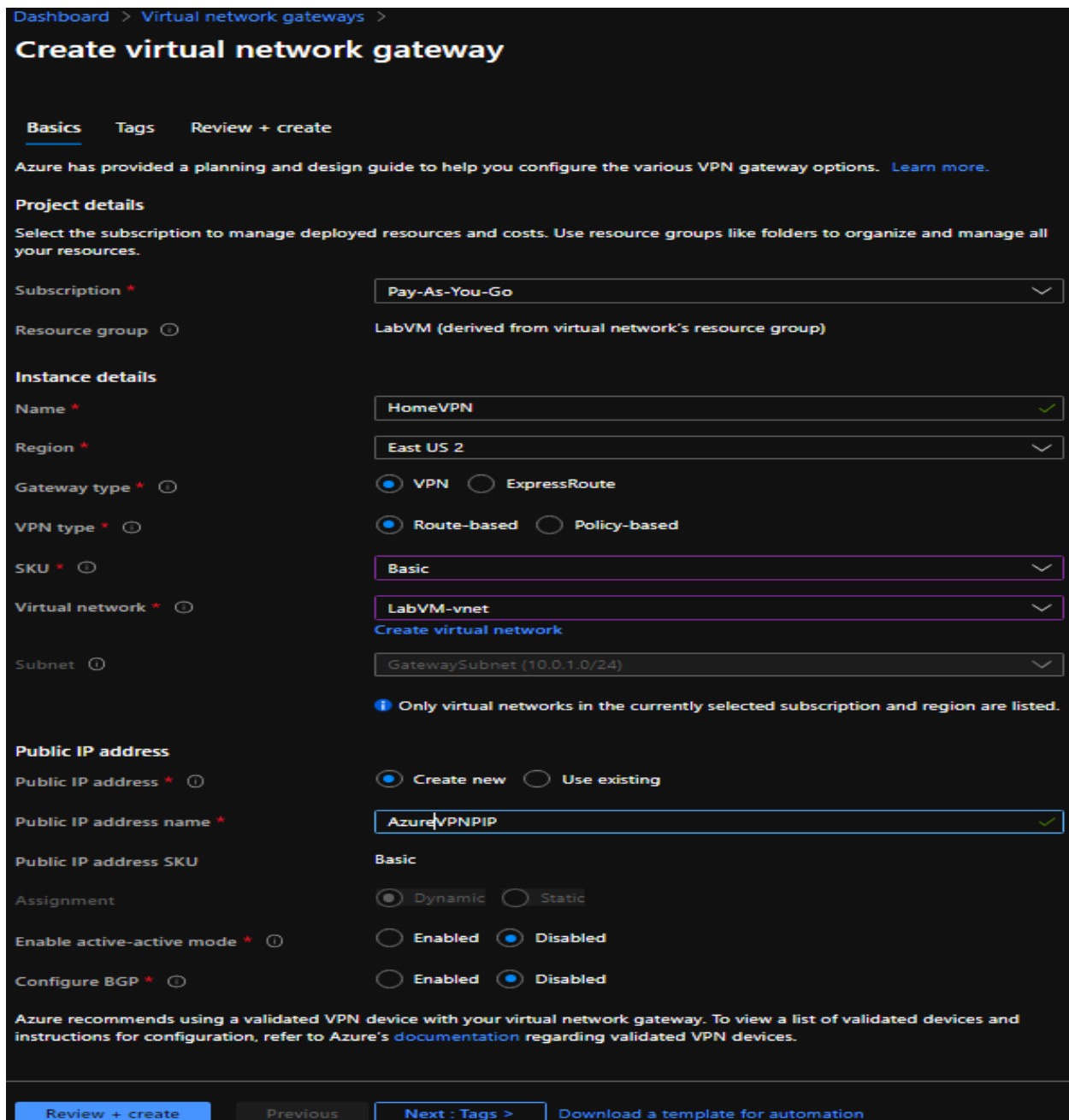
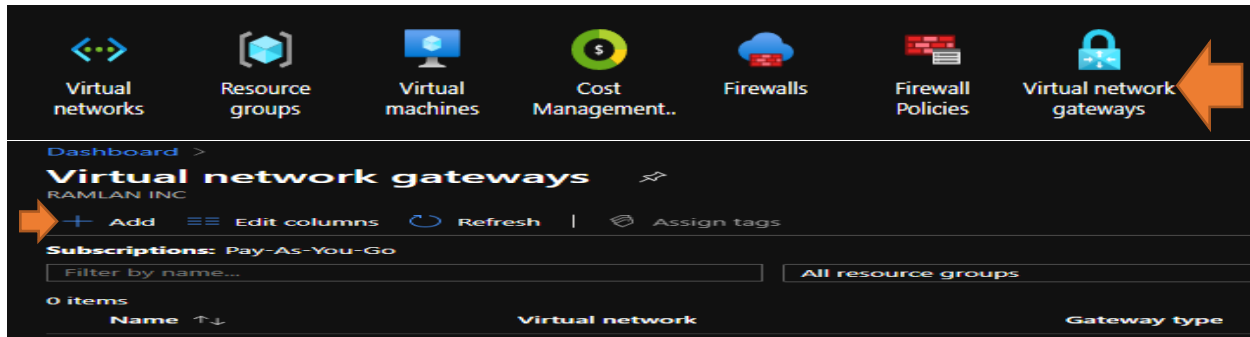
DNS servers

Default (Azure-provided) Custom

10.0.0.4	...
192.168.0.2	...

Add DNS server

Our configuration starts now. Search for Virtual network gateways



[Delete](#) [Cancel](#) [Redeploy](#) [Refresh](#)

We'd love your feedback! →

Deployment is in progress

Deployment name: Microsoft.VirtualNetworkGateway-2020100109... Start time: 10/1/2020, 10:12:50 AM
 Subscription: [REDACTED]
 Resource group: LabVM

[Deployment details](#) [\(Download\)](#)

Resource	Type	Status
HomeVPN	Microsoft.Network/virtualNetworkGateways	Created
AzureVPNPIP	Microsoft.Network/publicIPAddresses	OK

[Delete](#) [Cancel](#) [Redeploy](#) [Refresh](#)

We'd love your feedback! →

Your deployment is complete

Deployment name: Microsoft.VirtualNetworkGateway-2020100109... Start time: 10/1/2020, 10:12:50 AM
 Subscription: [REDACTED]
 Resource group: LabVM

[Deployment details](#) [\(Download\)](#)

[Next steps](#)

Go to resource

HomeVPN [↗](#)
 Virtual network gateway

[Refresh](#) [Move](#) [Delete](#)

Overview

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

Settings

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

Essentials

- Resource group (change) : LabVM
- Location : East US 2
- Subscription (change) : Pay-As-You-Go
- Subscription ID :

- SKU : Basic
- Gateway type : VPN
- VPN type : Route-based
- Virtual network : LabVM-vnet
- Public IP address : [REDACTED]

Now we can configure Local Network Gateway

[Dashboard](#) >

Local network gateways

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[+](#) Add [☰](#) Edit columns [↻](#) Refresh | [🏷](#) Assign tags

Subscriptions: Pay-As-You-Go

[All resource groups](#)

0 items

Name	Resource group
------	----------------

Create local network gateway

Name *

OnPremises ✓

Endpoint ⓘ

IP address FQDN

IP address * ⓘ

✓

Address space ⓘ

192.168.0.0/24 ...

Add additional address range ...

Configure BGP settings

Subscription *

Pay-As-You-Go ▾

Resource group * ⓘ

LabVM ▾

[Create new](#)

Location *

East US 2 ▾

Create

[Automation options](#)

Local network gateways ✎

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+ Add ☰ Edit columns ↻ Refresh | 🏷️ Assign tags

Subscriptions: Pay-As-You-Go

Filter by name...

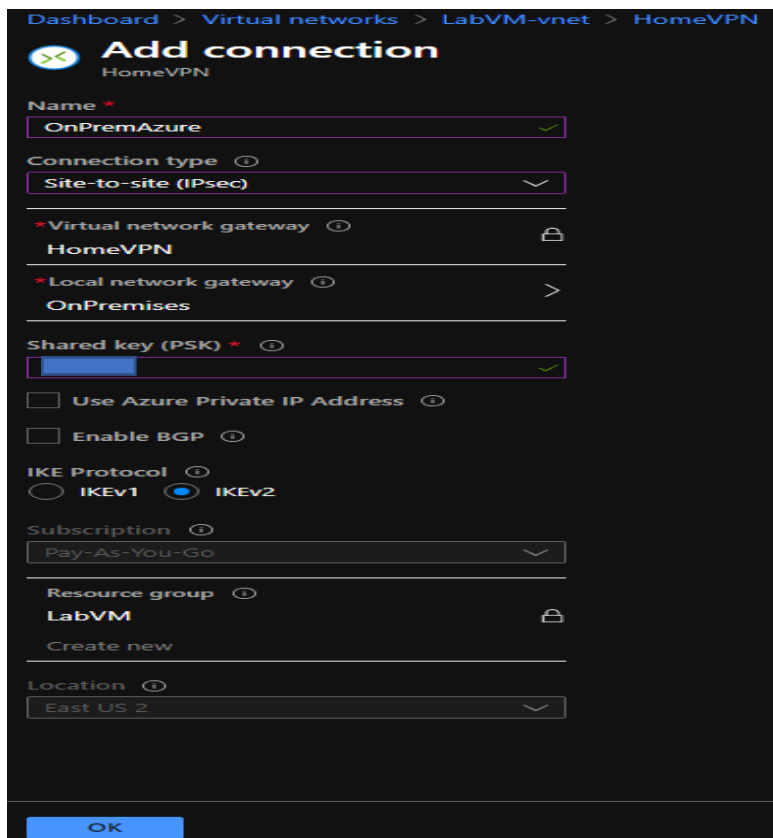
All resource groups ▾

All locations

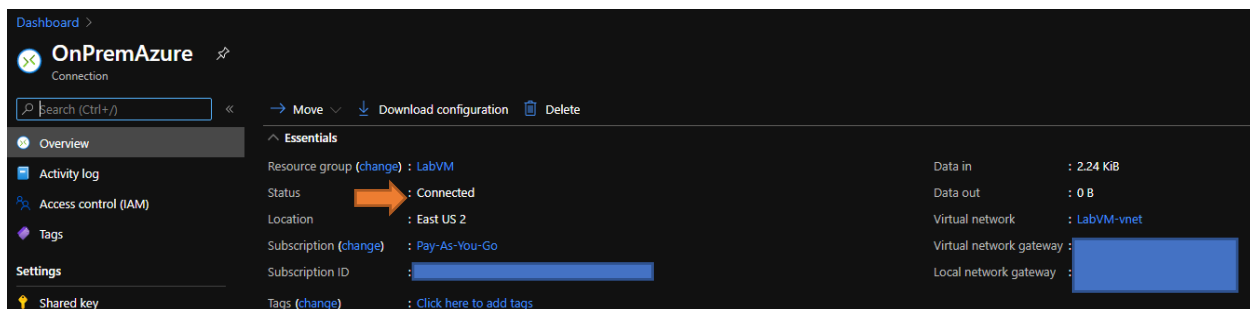
1 items

<input type="checkbox"/>	Name ↑↓	Resource group ↑↓	Location ↑↓
<input type="checkbox"/>	🟢 OnPremises	LabVM	East US 2

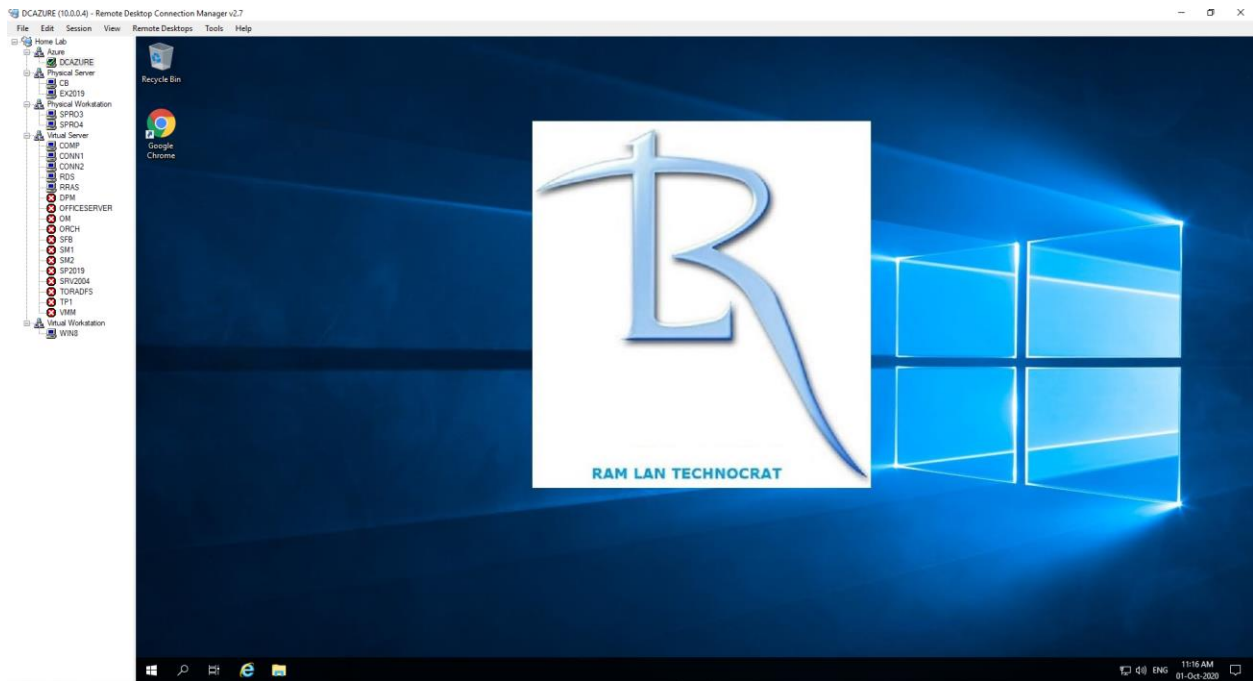
Now we need to complete the connection between Azure and On Premises



After few minutes the status should change from Not Connected to Connected.



I am able to RDP to DCAZURE virtual machine in Azure from home lab.



Please note, I am using RRAS as VPN device within home lab for connection. If you need details on how to setup RRAS check this post - www.infotechram.com/index.php/2020/09/23/how-to-setup-site-to-site-connection-using-rras/

This concludes S2S SKU Basic connection setup. Now we have On Premises Connected to Azure and vice versa.

Thanks

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1st Oct 2020