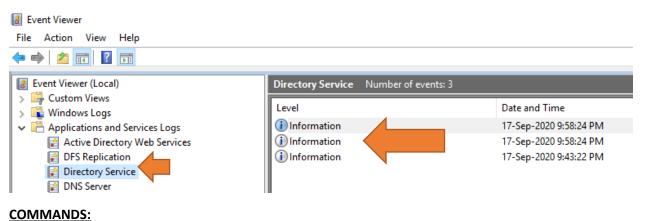
Windows Virtual Desktop WVD in Azure – Part 2

In this post, we will cover installing ADDS role on the virtual machine created in Azure. The virtual machine is **DCAZURE**. Before we proceed to Azure Portal, we will complete health check on our On Premises Domain Controller.

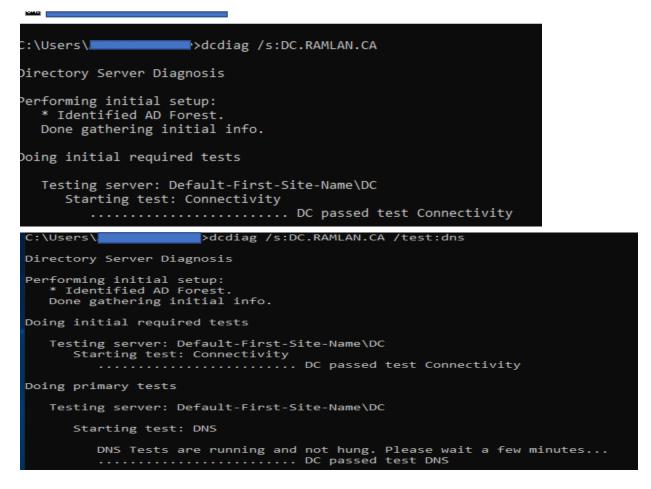
1. Check Event Viewer and analyze Active Directory and DNS Logs for any ERRORS.



dcdiag /s:DC.RAMLAN.CA

dcdiag /s:DC.RAMLAN.CA /test:dns

Open Command Prompt as Administrator and run above.



 Active Directory Sites and Services – We need to create New Site and New Subnet for Azure DC as detailed below. Open ADSS

Real Active Directory Sites and Services

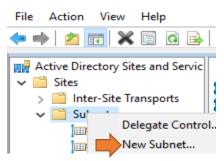


Name it as Azure and link to Default-First-Site-Name. Your Site should look like this..

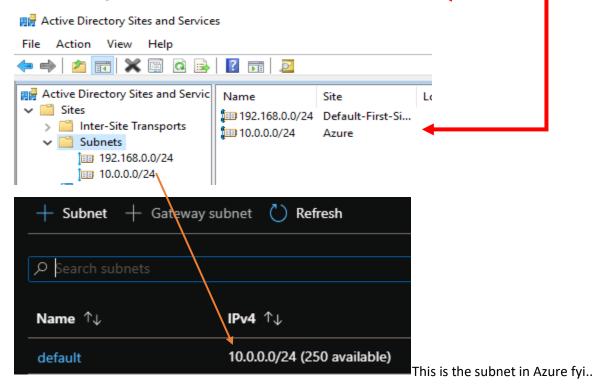


Click Subnets - New Subnet

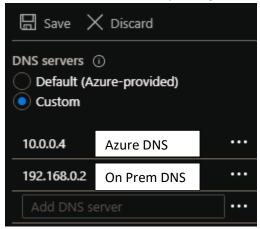
Active Directory Sites and Services



Give the IP Range and Select Azure. Your Subnets should look like this...



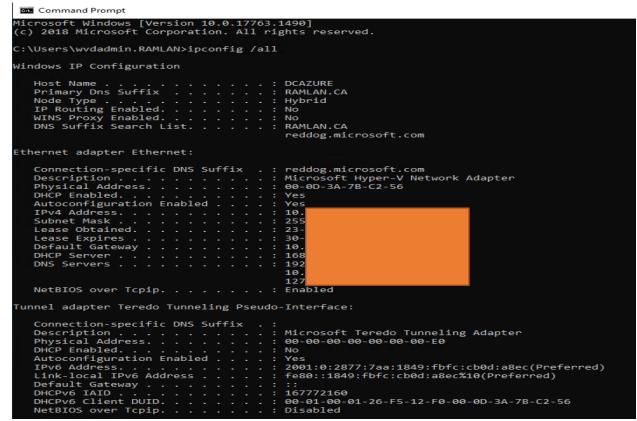
3. DNS Servers – I have already configured this. Here is the screen shot



4. DCAZURE DNS Servers Configuration

Dashboard > All resources > DCAZURE > dcazure200						
dcazure200 DN: Network interface	S servers					
₽ Search (Ctrl+/)	« 🔄 Save 🗙 Discard					
📾 Overview	DNS servers					
Activity log	 Inherit from virtual network Custom 					
Access control (IAM)						
🔷 Tags	192.168.0.2					
-	10.0.0.4					
Settings						
IP configurations						
DNS servers	Applied DNS servers (i)					
Network security group	192.168.0.2					
+ + Properties	10.0.0.4					

5. IPCONFIG Details - DCAZURE



6. IPCONFIG Details - RRAS SERVER

Administrator: C:\Windows\system32\cmd.exe

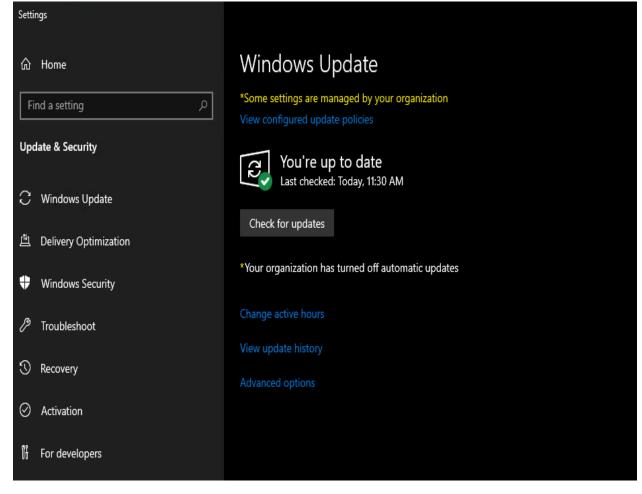
7. Perform any additional configuration

Perform any additional customizations to the OS (i.e., install updates, set correct Time Zone, launch Computer Management > Storage > Disk Management and add the available disk as "E:"

Installing the updates

Windows Update	
*Some settings are managed by your organization	
View configured update policies	Looking for info on the latest updates?
Updates available Last checked: Today, 4:30 PM	Learn more
	Related links
Security Intelligence Update for Microsoft Defender Antivirus - KB2267602 (Version 1.323.1415.0)	Check Storage
Status: Pending install	OS build info
2020-09 Cumulative Update Preview for .NET Framework 3.5, 4.7.2 and 4.8 for Windows Server 2019 for x64 (KB4577324) Status: Pending download	
Windows Malicious Software Removal Tool x64 - v5.83 (KB890830) Status: Pending download	
2020-06 Security Update for Adobe Flash Player for Windows Server 2019 for x64-based Systems (KB4561600) Status: Pending download	
Update for Adobe Flash Player for Windows Server 2019 (1809) for x64-based Systems (KB4462930)	
Status: Pending download	

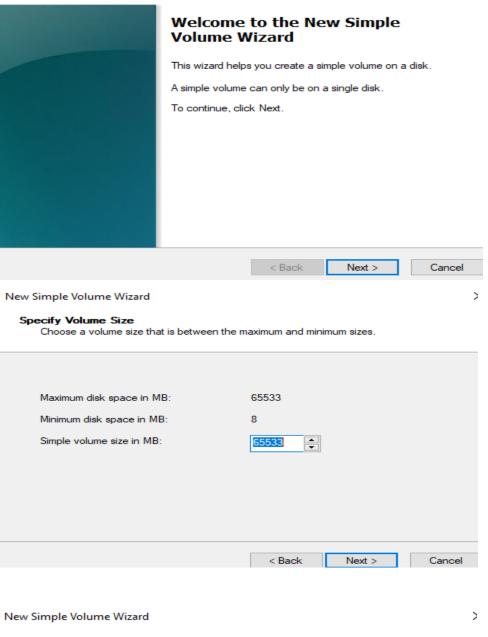
All updates done...



Open Computer Management and complete below task For Disk 2

🛃 Computer Management										
File Action View Help										
🗢 🔿 🙍 🖬 🖉 🗩 🤅	🗙 🖸 🔒 📴 🖾									
🜆 Computer Management (Local	Volume	Lay	out 1	ype File System	Status		Capacity	Free Space	% Free	
✓ [™]	- System Reserved			Basic NTFS		System, Active, Primary Partition)	500 MB	465 MB	93 %	
> 🕑 Task Scheduler	- Temporary Store			Basic NTFS		Page File, Primary Partition)	4.00 GB	3.47 GB	87 %	
> 🛃 Event Viewer	Windows (C:)	Sim	nple E	Basic NTFS	Healthy (Boot, Crash Dump, Primary Partition)	126.51 GB	117.12 GB	93 %	
 Shared Folders Me Local Users and Groups 										
> (N) Performance										
A Device Manager						Initialize Disk			2	×
V 😫 Storage									-	
> 🐌 Windows Server Backup						You must initialize a disk before Logical	Disk Manage	er can access i	π.	
📅 Disk Management						Select disks:				
> 🛃 Services and Applications						Disk 2				
						Use the following partition style for the s	وراونان الرويد والر			
						 MBR (Master Boot Record) 	elected disks			
						GPT (GUID Partition Table)				
	Disk 0 Basic									
	127.00 GB	System Re 500 MB NT	served	•//////////////////////////////////////		Note: The GPT partition style is not reco	ognized by all	previous versi	ions of	
	Online			Active, Primary Pa	rtition)	Windows.				
							(ОК	Cancel	1
									Carloci	
	Disk 1 Basic	Temporary		(D)						
	4.00 GB	4.00 GB NT		ge (D:)						
	Online			, Primary Partition)					
	ODisk 2									
	Unknown									
	64.00 GB	64.00 GB								
	Not Initialized	Unallocated								· · · ·
< >	Unallocated	Primary part	ition							

New Simple Volume Wizard



Assign Drive Letter or Path

For easier access, you can assign a drive letter or drive path to your partition.

Assign the following drive letter:	E ~	
O Mount in the following empty NTFS folder:		
	Browse	
O Do not assign a drive letter or drive path		

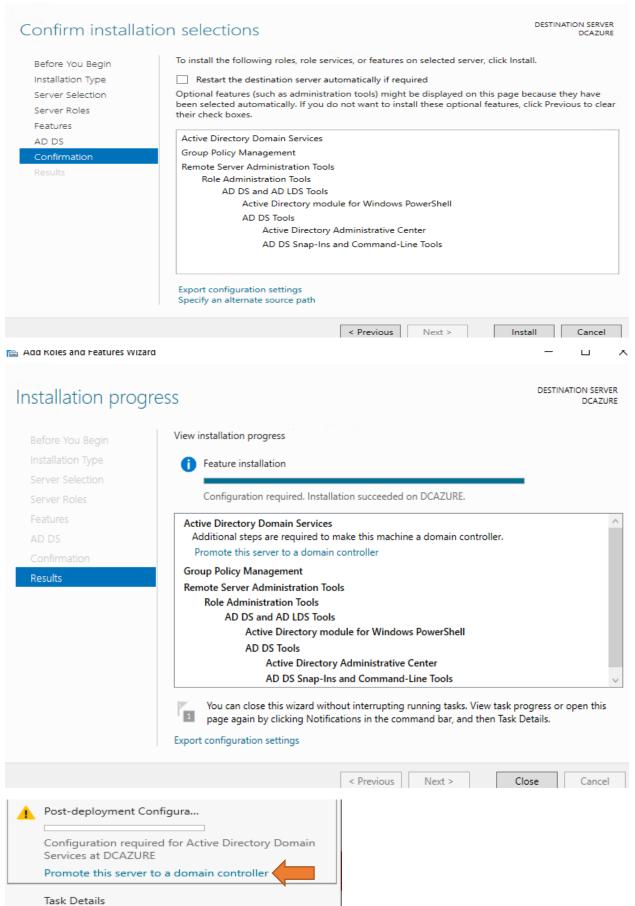
New Simple Volu	ume Wiza	rd					:	
Format Partit To store da		partition, you	must format it first.					
Choose wh	nether you	want to forma	at this volume, and if	so, what set	ttings you w	ant to use.		
⊖ Do r	not format t	his volume						
Form	nat this vol	ume with the	following settings:					
Fi	ile system:		NTFS	~	•			
A	llocation ur	nit size:	Default	~	•			
V	olume labe	l:	New Volume					
	Perform a	a quick forma	t					
	Enable fi	le and folder	compression					
			< Bad	k N	ext >	Cancel		
🔠 Computer Management								
File Action View Help	M ==							
 Computer Management (Local 	Volume AZUREDISK (E:)	Simple Basic	File System Status NTFS Healthy (Primary Partiti		Capacity Free Sp 64.00 GB 63.90 G	B 100 %		
> B Task Scheduler Section 2 Scheduler	 System Reserve Temporary Stor Windows (C:) 	d Simple Basic age (D:) Simple Basic Simple Basic	NTFS Healthy (Page File, Prim	ary Partition)	500 MB 465 MB 4.00 GB 3.47 GB 126.51 GB 117.12	87 %		
> 💀 Local Users and Groups > 🚫 Performance 🛓 Device Manager								
 Storage Windows Server Backup Disk Management 								
> Bervices and Applications								
		1						
	Disk 0 Basic 127.00 GB Online	System Reserved 500 MB NTFS Healthy (System, Activ	e Driman (Datition)	Windows (C:) 126.51 GB NTFS Healthy (Rest. Co	ash Dump, Primary Pa	artition)		
	= Disk 1	Caltry (System, Activ			ush o'ump, enmary Pa			
	Basic 4.00 GB Online	Temporary Storage (4.00 GB NTFS Healthy (Page File, Prin						
	-Disk 2 Basic	AZUREDISK (E:)						
	64.00 GB Online	64.00 GB NTFS Healthy (Primary Partit	ion)					

8. ADDS Role – Install the role on DCAZURE in the Cloud. Login to Azure Portal & open RDP session

Dashboard >					
Virtual machines 🖈					
$+$ Add \vee () Reservations \vee \equiv	Edit columns	\rightleftharpoons Try preview	🛛 🛛 🧔 Ass	ign tags 🖒 Start	
Subscriptions: Pay-As-You-Go					
Filter by name	All resource groups		All types		
1 of 1 items selected					
✓ Name ↑↓	Type ↑↓	Status		Resource group $\uparrow \downarrow$	
	Virtual machine	Stopped (dealloo	cated)	LabVM	

			— C	× c
I 🏲	Manage	Tools	View	Help
		d Roles and move Roles		ires
		d Servers ate Server	Group	
ates	Ser	ver Manag	er Properti	ies

Features Decive Directory Lightweight Directory Services this information a AD DS Active Directory Rights Management Services and network adm Device Health Attestation uses domain con	acenter
 Add Roles and Features Wizard Select server roles Before You Begin Installation Type Server Selection Select one or more roles to install on the selected server. Roles Description Active Directory Certificate Services Active Directory Domain Services Active Directory Federation Services Active Directory Roles Active Directory Roles Active Directory Rights Management Services Active Admuse domain com 	
Before You Begin Select one or more roles to install on the selected server. Installation Type Roles Description Server Selection	Cancel
Before You begin Roles Description Installation Type Roles Active Directory Certificate Services Active Directory I Server Roles Active Directory Domain Services Active Directory I Active Directory Services Active Directory Services Features Active Directory Lightweight Directory Services Active Directory Rights Management Services and network adm D DS Device Health Attestation Device Health Attestation Uses domain com	DESTINATION SERVER DCAZURE
DITOP SERVER	formation about twork and makes vailable to users inistrators. AD DS crollers to give cress to permitted ere on the network



📥 Select a domain from the forest	-		Х
Select a domain in the forest where the ner reside.	w domain	controlle	r will
RAMLAN.CA			
OK		Cancel	

📥 Active Directory Domain Services Configuration Wizard

– 🗆 X

TARGET SERVER

DCAZURE

Deployment Configuration

Deployment Configuration Domain Controller Options Additional Options Paths Review Options Prerequisites Check Installation Results	Select the deployment operation Add a domain controller to an Add a new domain to an existitity Add a new forest Specify the domain information for Domain: Supply the credentials to perform administrator@ramlan.ca More about deployment configure	ng forest r this operation RAMLAN.CA this operation	Select Change
	[< Previous Next >	Install

Domain Controlle	er Options			TA	ARGET SER DCAZ	
Deployment Configuration Domain Controller Options DNS Options Additional Options Paths Review Options Prerequisites Check Installation Results	Specify domain controller capal Domain Name System (DNS Global Catalog (GC) Read only domain controller Site name: Type the Directory Services Rest Password: Confirm password:	5) server rr (RODC) Azure	assword	×		
	More about domain controller	options				
📥 Active Directory Domain Servic	es Configuration Wizard	< Previous	Next >	Install	Cance	el X
DNS Options				TA	RGET SER	
A delegation for this DNS	server cannot be created because th	ne authoritative parer	it zone cannot b	e found Show	more	×
Deployment Configuration Domain Controller Options DNS Options Additional Options Paths Review Options Prerequisites Check Installation Results	Specify DNS delegation options					
	More about DNS delegation					

< Previous

Next >

Install

Cancel

Additional Option	S		TARGET SERV DCAZU	
Deployment Configuration Domain Controller Options DNS Options	Specify Install From Media (IFM) Option	ıs		
Additional Options	Specify additional replication options			_
Paths	Replicate from:	DC.RAMLAN.CA		~
Review Options				
Prerequisites Check				
Installation				
Results				
	More about additional options			
	< P	revious Next >	Install	
Change the path to E Drive				
📥 Active Directory Domain Service	s Configuration Wizard		- 0	\times
Paths			TARGET SER DCAZ	
Deployment Configuration	Specify the location of the ND DS data	hase leg files and SVSVOL		
Domain Controller Options	Database folder:	E:\windows\NTDS		
DNS Options	Log files folder:	E:\windows\NTDS		
Additional Options Paths	SYSVOL folder:	E\windows\SYSVOL		
Review Options				
Prerequisites Check				
Installation				
Results				
	Mare about Active Directory and			
	More about Active Directory paths			
	< F	Previous Next >	Install	

eview Options		TARGET SERVE DCAZUR
Deployment Configuration Domain Controller Options DNS Options Additional Options Paths Review Options Prerequisites Check Installation Results	Review your selections: Configure this server as an additional Active Directory domain controll "RAMLAN.CA". Site Name: Azure Additional Options: Read-only domain controller: No Global catalog: Yes DNS Server: Yes Update DNS Delegation: No Source DC: DC.RAMLAN.CA These settings can be exported to a Windows PowerShell script to auto additional installations	
		-
	More about installation options < Previous	Install
Active Directory Domain Service Prerequisites Che	< Previous Next >	- C
Prerequisites Che	< Previous Next >	
Prerequisites Che	< Previous Next >	TARGET SERVE DCAZUR Show more X vices is installed on this

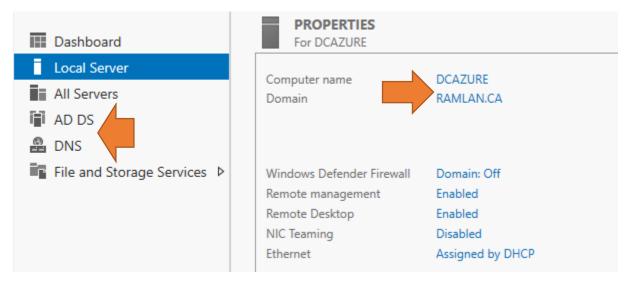
< Previous

Next >

Install

Cancel

After the role is installed the server will restart.



We have a working DC in Azure for our domain **RAMLAN.CA**. With this we have completed installing DC in Azure.

In the next blog (Part 3), I will cover WVD deployment in cloud.

Thanks

Ram Lan 23rd Sep 2020