# Azure Role-based Access Control (RBAC)

- 1. Create New user blank No Role
- Azure Active Directory
- 2. No Resource group in Azure.
- 3. Add user to Read Access
- 4. Add role assignment

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	Microsoft Azure 🔎 Search re	sources, services, and docs (G+/)		i 🖉 🏟 ? 😳	trevor@trevorsullivan.net ART OF SHELL				
Da	Dashboard > Subscriptions > Trevor Sullivan Subscription								
ጵ	Trevor Sullivan Subscription   Access control (IAM)         >           Subscription         >								
م	Search (Ctrl+/) «	+ Agd ↓ Download role as	<b>signments</b>	s 🖒 Refresh   🗙 Rem	nove   🛇 Got feedback?				
0	Overview	Add role assignment							
	Activity log	Add co-administrator	e : All Role : All	Scope : All scopes	Group by : Role				
- 192	Access control (IAM)	Add custom role							
*	Tags	Name	Туре	Role	Scope				
۲ (م	Tags Diagnose and solve problems	Name Owner	Туре	Role	Scope				
ی روم ۱	Tags Diagnose and solve problems Security	Name Owner Trevor Sullivan trevor@trevorsul	<b>Type</b> User	Role Owner ①	Scope This resource				
* }* *	Tags Diagnose and solve problems Security Events	Name       Owner       Ib     Trevor Sullivan trevor@trevorsul       Trevor Sullivan trevor@trevorsul	Type User User	Role Owner ① Owner ①	Scope This resource Management group (Inhe				
ی رج ج ده	Tags Diagnose and solve problems Security Events st Management	Name Owner      Trevor Sullivan     Trevor Sullivan	Type User User	Role Owner ① Owner ①	Scope This resource Management group (Inhe				
ی بی بی ده بی	Tags Diagnose and solve problems Security Events st Management Cost analysis	Name       Owner       1b     Trevor Sullivan trevor@trevorsul       1b     Trevor Sullivan trevor@trevorsul       1b     Trevor Sullivan trevor@trevorsul	Type User User	Role Owner ① Owner ①	Scope This resource Management group (Inhe				
<ul> <li>(7)</li> <li>(7)</li></ul>	Tags Diagnose and solve problems Security Events st Management Cost analysis Cost alerts	Name       Owner       Ts     Trevor Sullivan trevor@trevorsul       Trevor Sullivan trevor@trevorsul       Reader       Identity not found. Unable to find id	Type User User Unknown	Role Owner ① Owner ① Reader ①	Scope This resource Management group (Inhe This resource				

5. Add Reader access to Subscription

≡ Microsoft Azure 🔎 Searc	h resources, services, and docs (G+/)	🛛 🗗 🧔 🤅 ? 😳 trevor@trevorsullivan.net 💽
Dashboard > Subscriptions > Trevor S Revor Sullivan Sub Subscription	ullivan Subscription scription   Access control (IAM)	Add role assignment $\times$
Search (Ctrl+/)     «     Overview	+ Add ↓ Download role assignments == E	Reader ① V
Activity log	Search by name or e Type : All Role	Azure AD user, group, or service principal
Access control (IAM)     Tags	3 items (2 Users, 1 Unknown)           Name         Type	User assigned managed identity
<ul> <li>Diagnose and solve problems</li> <li>Security</li> </ul>	Owner	App Service App Service Deployment Slot
Events Cost Management	Trevor@utevorsu Trevor Sullivan trevor@trevorsul User	Container Instance
<ul> <li>Cost analysis</li> <li>Cost alerts</li> </ul>	Reader	Data Factory
③ Budgets	Unable to find id	Data Share Account

6. Verify.

■ Microsoft Azure			N	Ģ	Q	ŝ	?	$\odot$	chris@trevors	Sullivan.n ART OF SHE
Home >										
Subscriptions Art of Shell	*									
+ Add										
View list of subscriptions for access, click here Showing subscriptions in Ar My role ①	which you have role-based access control (RBAC) per t of Shell directory. Don't see a subscription? Switch di	missions to mai rectories Status ①	nage A	Azure re	esource	es. To vi	ew suł	oscriptio	ons for which you l	have billin
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Apply Showing 1 of 1 subscription	Show only subscriptions selected in the global	subscriptions fil	ter 🛈							
Subscription name	$ \uparrow \downarrow $ Subscription ID $ \uparrow $	↓ My role		$\uparrow \downarrow$	Curr	ent cos	t		Status	$\uparrow_{\downarrow}$
Travor Sullivan Subsc	rintion4b0139d6_80fa_43cf_ae97_25fd432141db	Reader	_		\$19	85			Activo	

### 7. Add user have Owner Role assignment

$\equiv$ Microsoft Azure $P$ Search	resources, services, and docs (G+/)	↓ 🛱 🔅 ? 😳 trevor@trevorsullivan.net 🚺 🖓
Dashboard > Resource groups > storag		Add role assignment
Rog storage   Access con	trol (IAM)	Ū.
Resource group		Role ①
	+ Add 🞍 Download role assignments 📰 Ed	Owner ① — ✓
Overview		Assign access to ①
Activity log	Check access Role assignments Roles	Azure AD user, group, or service principal
Access control (IAM)	Number of role assignments for this subscription	Select ①
🗳 Tags	4 20	
🗲 Events		Azure Administrators
Settings	Search by name or e Type : All Role	
#1. Ouiskstast	5 items (3 Users 2 Unknown)	chris@trevorsullivan.net
	Name Type	Selected members:
	Owner	you want to assign to the role for this resource.
	Trevor Sullivan	
Export template	trevor@trevorsul	

## 8. If user don't role assign - will have this error

$\equiv$ Microsoft Azure $P$ Search	resources, services, and docs (G+/)	<b>Г</b> р (	ም 🌚	? ©	chris@trevorsu	llivan.net 🕕
Home > Resource groups > esource group P Search (Ctrl+/) « Overview Activity log	→ Add ΞΞ Edit columns	up 🖒 Re D 5	Dele     Failed to     'chris@t     d5b1-4c     authoriz     'Microso     /delete'     ae97-25     the scop     refresh     y	ete resource o delete reso revorsullivar 126-b14f-2fa ation to perl oft.Resources over scope ' fd432141db be is invalid. your credent	group azure-monitor f urce group azure-mon n.net' with object id '6a (d1b492046' does not H form action /subscriptions/resource /subscriptions/tb0139 /resourceGroups/azure f access was recently g ials. (Code: Authorizati	ailed 1:24 PM ttor: The client 94a91e- have eGroups 66-80fa-43cf- -monitor' or ranted, please onFailed)
R       Access control (IAM)         Image       Tags         Events       Events	Subscription ID 4b0139d6-80fa-43cf-ae97-25fd432141db Tags (change) Click here to add tags			Switch bet and a sum counts.	ween a list view of you mary chart view of resc	r resources ource
Settings	Filter by name Type == all ×	Location =	= all >			CLOSE
Quickstart Deployments Policies	Showing 1 to 1 of 1 records. $\hfill \hfill \hfi$	D No gr	rouping ne ↑↓		✓ List view Location ↑↓	~
Export template	azmonitor	Dat	a Collectio	on Rule	West US 2	

9. Or Add role in Azure



# Join Azure VM to Azure AD Domain

1. Need Create Azure AD Domain Service. With AD domain name.

$\equiv$ Microsoft Azure $\rho$	Search resources, services, and docs (G+/)	
Dashboard > New > Azure AD De	omain Services >	
Create Azure AD Do	main Services	
Subscription *	Pay-As-You-Go (6a4ac461-37d7-4b89-8a57-9d7daaf8c295)	$\sim$
Resource group * ④		^
	Select existing	
Help me choose the subscription and	atcs[m]	
DNS domain name * 🛞 🗕 🗕	atcslvm1_group	
Help me choose the DNS name	NetworkWatcherRG	
Region * 🕕	(US) East US	$\sim$
ѕки * ⊙	Enterprise	$\sim$
Help me choose a SKU		
Forest type * ①	User Resource	

2. From Network: Choose Subnet & Next & Next.

#### Create Azure AD Domain Services

3.

4.

*Basics *Networking Adminis	stration Synchronization Review + create
Azure AD Domain Services uses a ded network, ensure that the network con- run. Learn more	dicated subnet within a virtual network to hold all of its resources. If using an exist figuration does not block the ports required for Azure AD Domain Services to
Virtual network * 🕕	aadds-vnet
	Create new
Help me choose the virtual network a	ind address
Subnet * 🗊	aadds-subnet (10.0.0/24)
	Select existing
Help me choose the subnet and NSG	aadds-subnet (10.0.0/24) 
O Ver bere abaren e erheret ibiek	
You have chosen a subnet which NSGs to ensure you do not block	associates with an existing network security group. Keview the guidelines for configuring c Microsoft's ability to manage, patch, monitor and secure your managed domain.
Final review and cl	lick OK
Microsoft Azure	Search resources services and dors (G+/)
Dashboard > New > Azure AD [	Domain Services >
Create Azure AD Do	omain Services
Veu ab eule luneur	
The following shoires are final as	nd wen't be able to be changed offer meeting
The following choices are final ar	no won't be able to be changed after creation.
DNS name     Subscription	
Resource group	
Virtual network     Subpot	
Forest type	
Click OK to continue to create A:	zure AD Domain Services
OK Cancel	
Network	
Virtual network	aadds-vnet
Subnet	aadds-subnet
Subnet Address	10.0.0/24
Play (k)	aadds-nsg
Goto Resource:	
Dashboard >	
	nainServices-20200823213106Z   Overview
P Search (Ctrl+/)	🔍 💼 Delete 🛇 Cancel 🏦 Redeploy 💍 Refresh
🚣 Overview	
	We drove your recubert.



5. Goto Update DNS for AAD



6. From All Resource we will 4 New Items added (1Load Balance & 2 IP Private & 1Public ) All resources

Filter by name Subscription == (all) Re	esource group == (all) $ imes$	Type == (all) × Location == (all)	× + <sub>▼</sub> Add filter	
Showing 1 to 17 of 17 records. 🗌 Show hidden types 🛈			No grouping	✓ List vie
🗌 Name 👈	Type ↑↓	Resource group ↑↓	Location $\uparrow_{\downarrow}$	Subscription $\uparrow_\downarrow$
aadds-15d28578053f45978dbe58a7eddb40ae-lb	Load balancer	atcsl	Central US	Pay-As-You-Go
aadds-15d28578053f45978dbe58a7eddb40ae-pip	Public IP address	atcsl	Central US	Pay-As-You-Go
	Natural interface		Control LIC	Dave As Mary Co.

- 8. From VM Property Change setting
- 9. Go property Change setting Add Domain name.
- 10. Join AD domain, will join Domain in AAD approved
- 11. After reboot, the login with AD domain.

## **Access Management**



#### 1. Go to Resource Groups ad Access control (IAM)



#### 2. Verify account:

E Microsoft Azure 🔎 Sean	ch resource	es, services, and docs (G+/)	E 🗣 🗳 🕸	? 😳 adam@ DEFAU
Vashboard > Resource groups >			Added Ro	le assignment
Resource groups	«	Resource group	-sql-firewall-demo   Access control (IAM)	added as Reader for logica
$+$ Add 🚳 Manage view $\vee$ $\cdots$		Search (Ctrl+/)	≪ + Add ≡≡ Edit columns 🕐 Refresh   × Remove   ♡ Got feedback?	
Filter by name		() Overview	Check access Role assignments Deny assignments Classic administrator	rs Roles
Name ↑↓		Activity log		
cloud-shell-storage-westeurope		R Access control (IAM)	Manage access to Azure resources for users, groups, service principals and managed iden	lities at this scope by creati
Iogicapps-e2e-arm-export		Tags		
<ul> <li>logicapps-e2e-azuread-apim-demo</li> </ul>		Events	- V 2000	
logicapps-e2e-sql-firewall-demo		Settings	Name ① Type ① Role ①	S
logicapps-e2e-try-catch-finally		📣 Quickstart	Group by ①	
Iogicapps-e2e-variables-demo		🛆 Deployments	Role	
NetworkWatcherRG		Policies	5 items (5 Users)	
		😂 Properties	Name Type	Role
		🔒 Locks	Owner	
		Export template	Adam Gateway Demo adam-gateway@adammarczak User	Owner ①
		Cost Management	Adam Marczak adam_marczak.io#EXT#@adam User	Owner ①
Pause (k)		<ul> <li>Cost analysis</li> <li>Cost alerts (preview)</li> </ul>	Adam Marczak adam_marczak.io#EXT#@adam User	Owner ①
ige 1 🗸 of 1		Budgets	Reader	
		- vulges	Tom Doe	

3. Compared:



## Azure AD.

## 4. Azure - AD Azure Active Directory – Identity as a Service (IaaS)



