## How to install Vigor ACS2 in Microsoft Azure

VigorACS 2 is a TR-069 based centralised management system for DrayTek's Vigor devices. It is a management tool that would help Network Engineers and Systems Integrators to configure, monitor and manage DrayTek devices remotely from the comfort of their offices or homes.

Microsoft Azure allows you to set up a cloud-based management system running VigorACS 2.

This guide shows you on how to install VigorACS 2 in Linux CentOS 7.6 using Microsoft Azure as our infrastructure server.



b. Login using your Microsoft Azure account.

Microsoft	
← support ~ ~	
Enter password	
Password	
Forgot my password	

- II. Creating a Virtual Machine Instance.
  - a. Select "Create a resource" and search "centos".



b. Select "CentOS 7.6".

Microsoft Azure			irces, services, and docs			
«	Home > New > Marketplace > Everything					
+ Create a resource	Marketplace $\Rightarrow$ $\times$	Everything				
🛧 Home	My Saved List 🚺					
∃ All services	Everything	Pricing	Operating System		Publisher	
* FAVORITES	Compute	All	All	~	All	
All resources	Networking	Results				
<ul> <li>Resource groups</li> <li>App Services</li> </ul>	Storage	NAME		PUBLISHER		CATEGORY
Function Apps	Web	CentOS-based 7.5		Rogue Wave Softwa	re (form	Compute
👼 SQL databases	Mobile	CentOS-based 7.3 HPC		Rogue Wave Softwa	re (form	Compute
2 Azure Cosmos DB	Containers	CIS. CIS CentOS 7.6 Benchmark L1		Center For Internet	Security,	Security
Virtual machines	Databases	EcentOS 7.6		Rogue Wave Softwa	re (form	Compute
Storage accounts	Analytics	CentOS-based 6.5 HPC		Rogue Wave Softwa	re (form	Compute

- c. Enter the following below:
  - Subscription: *Free Trial*
  - Resource group: VigorACS2
  - Virtual machine name: vigoracs2
  - Region: Australia Southeast
- d. Select "Change size" to allocate vcpus and memory.
- e. Select "Password" and enter username/password, then select "Next:Disks".

Microsoft Azure		$\wp$ Search resources, services, and docs
×	Home > New > Marketplace > Eve	rything > CentOS 7.6 > Create a virtual machine
+ Create a resource	Create a virtual machine	
A Home	A Changing Pacie antigan may result	alarting you have made. Paview all entings arise to creating the virtual machine
🛄 Dashboard	your resources.	elections you have made, review all options pror to creating the virtual machine.
∃ All services	* Subscription	
- 🔶 FAVORITES	Subscription 0	
🗰 All resources	Resource group 🛛	(New) VigorACS2  Create new
🕥 Resource groups		
🔇 App Services	INSTANCE DETAILS	
Function Apps	• virtuai machine name 😈	vigoracs2
👼 SQL databases	* Region 🗿	Australia Southeast 🗸
😕 Azure Cosmos DB	Availability options 🕤	No infrastructure redundancy required $\checkmark$
👰 Virtual machines	* Image 🚯	CentOS 7.6 V
🚸 Load balancers		Browse all images and disks
Storage accounts	* Size O	Standard B2s
↔ Virtual networks		Change size
🚸 Azure Active Directory		
Monitor	Authentication type	Password     SSH public key
🜪 Advisor		
🗿 Security Center	* Username 🗿	support_ilan 🗸
Cost Management + Billing	* Password O	······································
P Help + support	* Confirm password <b>0</b>	·······
	INBOUND PORT RULES	
	Select which virtual machine network network access on the Networking tal	ports are accessible from the public internet. You can specify more limited or granular 5.
	* Public inbound ports 🗿	None  Allow selected ports
	Review + create	Previous Next : Disks >

f. Select OS disk type as "Standard HDD" and click "Next:Networking".

Microsoft Azure	<i>P</i> Search resources, services, and docs
×	Home > New > Marketplace > Everything > CentOS 7.6 > Create a virtual machine
+ Create a resource	Create a virtual machine
🛧 Home	
🗔 Dashboard	Basics Disks Networking Management Advanced Tags Review + create
∃ All services	Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks.
+ FAVORITES	The size of the VM determines the type of storage you can use and the number of data disks allowed. Learn more
All resources	DISK OPTIONS
🕼 Resource groups	* OS disk type 🕤 Standard HDD 🗸
🔕 App Services	workloads. Virtual machines with Premium disks. We recommend Premium SSD for high IOPS workloads. Virtual machines with Premium SSD disks qualify for the 99.9% connectivity
🦘 Function Apps	SLA.
👼 SQL databases	Ultra SSD compatibility (Preview) Ultra SSD compatibility is not available for this VM size and location.
2 Azure Cosmos DB	DATA DISKS
👰 Virtual machines	You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a
🚸 Load balancers	temporary disk.
Storage accounts	
😔 Virtual networks	Create and attach a new disk Attach an existing disk
Azure Active Directory	
🕒 Monitor	↑ ADVANCED
🜪 Advisor	Lise managed disks @
Security Center	
📀 Cost Management + Billing	
Help + support	
	Review + create Previous Next : Networking >

g. Under "*Public inbound ports*", select "Allow selected ports" and choose HTTP, HTTPS, SSH and then "Next: Management".

Microsoft Azure		$\wp$ Search resources, services, and docs
«	Home > New > Marketplace > Everyt	hing > CentOS 7.6 > Create a virtual machine
+ Create a resource	Create a virtual machine	
🛧 Home		
🛄 Dashboard	Basics Disks Networking Ma	nagement Advanced Tags Review + create
∃ All services	Define network connectivity for your virt	ual machine by configuring network interface card (NIC) settings. You can control
* FAVORITES	ports, inbound and outbound connectivi	ty with security group rules, or place behind an existing load balancing solution. Learn
III resources	more	
🕅 Resource groups	When creating a virtual machine a netw	nrk interface will be created for you
🔕 App Services	when creating a virtual machine, a netw	dik interface will be cleated for you.
Sunction Apps	CONFIGURE VIRTUAL NETWORKS	
SOL databases	* Virtual network 😈	(new) VigorACS2-vnet
Azure Cosmos DB	* Subnet 👩	(new) default (10.0.0.0/24)
Virtual machines	Public IP 🙃	(anu) vigorar? in
Load balancers		Create new
Storage accounts	NIC network security group <b>6</b>	None Basic Advanced
↔ Virtual networks	* Public inbound ports ()	None Allow selected ports
🚸 Azure Active Directory	* Select inbound ports	
) Monitor		
🜪 Advisor		These ports will be exposed to the internet. Use the Advanced controls to limit inbound traffic to known IP addresses. You can also update inbound traffic rules
Security Center		later.
O Cost Management + Billing		0.0- 0.0"
Help + support	Accelerated networking 😈	The selected VM size does not support accelerated networking.
	LOAD BALANCING	
	You can place this virtual machine in the	backend pool of an existing Azure load balancing solution. Learn more
	Place this virtual machine behind an	Ver No
	existing load balancing solution?	
-		
	Review + create Pre	vious Next : Management >
	Neview + create Pro	wous weat, wallagement >

h. Leave everything in default settings and select "Next:Advance".

Basics Disks Networking M	lanagement	Advanced	Tags	Review + create
Configure monitoring and managemen	t options for	your VM.		
AZURE SECURITY CENTER				
Azure Security Center provides unified : Learn more	security mana	agement and ac	lvanced	threat protection across hybrid cloud workloads
Your subscription is protected by A	Azure Security	/ Center basic p	lan.	
MONITORING				
Boot diagnostics 👩	On On	Off		
OS guest diagnostics 🛛	⊖ On	• Off		
* Diagnostics storage account 👩	(new) a	zurebackuprgaus	trali418	
	Create ne	ew		
IDENTITY				
System assigned managed identity 🚯	⊖ On	• Off		
AUTO-SHUTDOWN				
Enable auto-shutdown 🚯	⊖ On	• Off		
BACKUP				
Enable backup 🚯	⊖ On	Off		

- III. Creating a storage Blob in Microsoft Azure and upload Vigor ACS2 installer.
  - a. Go to **Storage accounts>>vigoracs2diag**



## b. Select "*Blob*".



c. Select "Container", enter name as "installer" and select "Private (no anonymous access)".

, Search (Ctrl+/)	Sefresh 🗇 Delete 🔒 Change access let	vel
Overview	New container	
Activity log	* Name	
Access control (IAM)	installer	~
🛷 Tags	Public access level 🕤	19
X Diagnose and solve problems	Private (no anonymous access)	~
Storage Explorer (preview)		
	OK Canad	
<sup>Settings</sup> d. Select <i>"install</i>	ers".	
d. Select <i>"install</i> vigoracs2diag - Ble	ers".	
d. Select <i>"install</i> vigoracs2diag - Ble Storage account Search (Ctrl+/)	ers".	e access level
d. Select <i>"install</i> vigoracs2diag - Ble Storage account <i>Search (Ctrl+/)</i> Overview	ers". bbs	e access level
Settings         d. Select "install         image account         image account <td< td=""><td>ers". bbs</td><td>e access level</td></td<>	ers". bbs	e access level
d. Select <i>"install</i> vigoracs2diag - Ble Storage account Search (Ctrl+/) Overview Activity log Access control (IAM)	ers". bbs	e access level
Settings         d. Select "install         image account         image account <td< td=""><td>ers". bobs</td><td>access level</td></td<>	ers". bobs	access level

- e. To upload the files inside a folder, we will need to create the same folder name in the Blob container.
  - 1. Select "Upload", "Advance" and enter the folder name "acs".
  - 2. Click the *folder icon* to browse the files to be uploaded. Select the file inside acs folder from your local computer and click *"Open"*.
  - 3. Click *"Upload"* to create the folder *"acs"* and to save the files inside the folder.

Home > vigoracs2diag - Blobs > installer	s	
installers Container	1.	
	🕂 Upload 🖸 Refresh 🤷 Cha	nge access level 🗴 Delete 🖷 Acquire lease
Overview	Authentication method: Access key Location: installers	y (Switch to Azure AD User Account)
Access Control (IAM)	Search blobs by prefix (case-sensitive)	
🗊 Open	×	Upload blob
← → → ↑ 📙 « VigorACS_Unix_Like_Drayt → acs	v ♂ Search acs	Files O
Organize 👻 New folder	Bee 👻 🛄 😮	Select a file 2.
Notepad Skye ConeDrive This PC 3D Objects	4/01/2019 4:10 PM WinRAR ZIP an	Advanced 1. Authentication type O Azure AD user account Account key Blob type O
Bosumente V K	>	Block blob 🗸
File name: VPN Menu_2760.JPG	All Files (*,*)   All Files (*,*)  Cancel	Upload .vhd files as page blobs (recommended) Block size @ 4 MB
3/12/2019, 2:57:24 PM	Block blob	Upload to folder acs 1.
3/12/2019, 2:57:25 PM	Block blob	
3/12/2019, 2:57:25 PM	Block blob	2
3/12/2019 2:57:24 PM	Block blob	Uproad 3.

- f. To upload files into the Microsoft Azure container:
  - 4. Click the *folder icon* to browse the files to be uploaded.
  - 5. Select the files and click "Open".
  - 6. Click *"Upload"*.

😨 Open		94	×	Upload blob	>
$\leftarrow \rightarrow \checkmark \uparrow  _{-} \ll Desk$	… → VigorACS_Unix_Like_Dr v Ō	Search VigorACS_Uni	x_Like_D 🔎	Files o	
Organize 🔻 New folder		EE •	• 🔲 🔞	Select a file	4. 🗖
This PC	Name	Date modified	Туре	Overwrite if files already exist	
3D Objects	install_acs_jdk.sh	5/09/2017 5:39 PM	SH File		
Desktop	📄 install_sqlite.sh	5/09/2017 5:39 PM	SH File	× Advanced	
	install_sqlite_openjdk.sh 5.	5/09/2017 5:39 PM	SH File	- Advanced	
	install_Synology_NAS.sh	5/09/2017 5:39 PM	SH File		
Downloads	install_user_vigoracs.sh	5/09/2017 5:39 PM	SH File		
Music	Quick Start Guide.txt	5/09/2017 5:39 PM	Text Docum	Upload 6.	
My Web Sites or	📄 uninstall.sh	17/12/2018 7:38 PM	SH File 🗸		
📰 Pictures 🔍 🗸			>		
File nar	ne: ["uninstall.sh" "acs_install_conf.conf" "a( ~	All Files (*.*)	~		
	5.	Onen	Cancel		
		open	cancer		

- IV. Set the VM instance IP address to static.
  - a. Go to Virtual machines and select vigoracs2.

Microsoft Azure $P$ Search r	esources, services, and docs 🛛 📐 🕞 💭
«	Home > Virtual machines
+ Create a resource	Virtual machines gigiyayahotmail (Default Directory)
A Home	🕂 Add 🕐 Reservations 📰 Edit columns 💍 Refre
🛄 Dashboard	Culoud Manager Trial Dealth and the statistical Dealth
∃ All services	Subscriptions: Free Inal – Don't see a subscription? Open I Subscription settings
* FAVORITES	Filter by name     All resource ∨     All types     ∨
All resources	1 items
🕅 Resource groups	NAME TYPE STATUS
Services	Virtual ma Running
🪸 Function Apps	
👼 SQL databases	
🖉 Azure Cosmos DB	
👰 Virtual machines	

b. Select "Networking" and IP address 52.x.x.x.

vigoracs2 - Networkin	g				
) Search (Ctrl+/)	«	Attach network inte	rface 🛛 🛷 Detach netwo	k interface	
Q Overview		📕 Network Interface	e: vigoracs2904 Eff	ective security rules Topol	ogy
Activity log	L	Virtual network/subnet:	VigorACS2-vnet/default	Public IP: 52.7.7 Te.1.2	Private IP: 10.0.0.
Access control (IAM)	L	Inbound port rules	Outbound port rules	Application security groups	Load balancing
🖉 Tags		Network security a	roup vigoracs2-nsg (atta	ched to network interface: vig	oracs2904)
X Diagnose and solve problems	L	Impacts 0 subnets, 1	network interfaces		
Settings	L	PRIORITY	NAME		PORT
Networking		300	HTTP		8844
🛢 Disks		320	HTTPS		8443

c. Select "Static" and "Save".



- V. Manage the VM instance via SSH.
  - a. Go to Virtual machines and select Connect.

Microsoft Azure							
+ Create a resource	« Azure service	s					
🛧 Home							
💷 Dashboard							
∃ All services	Virtual machines						
+ FAVORITES	Make the mo	.+					
All resources	wake the mos	SL					
Resource aroups	4						
App Services							
Function Apps	Learn Azuro wit	h					
SOL databases	courses by f	vi					
Azure Cosmos DB	Microsoft I	.e:					
Virtual machines							
Load balancers	Recent resour	CI					
Virtual networks							
Virtual machines gigiyayahotmail (Default Directory)							
🕇 Add 🕚 Reservations 📰 Edit colur	mns 🕐 Refresh 📔 🌢 Assign tags 🕨 Start 🦿	Restart 📕 Stop 薗 De	elete 🗧 Services				
Subscriptions: Free Trial – Don't see a subsc	cription? Open Directory + Subscription settings						
Filter by name	All resource groups	types	✓ All locations	✓ All tags	v	No grouping	
1 of 1 items selected							
NAME 1.	TYPE	STATUS	RESOURCE GROUP	LOCATION	MAINTENANCE STATUS	SUBSCRIPTION	
vigoracs2	Virtual machine	Running	VigorACS2	Australia Southeast		Connect	
						Start	
						Restart	
						Stop	

b. Copy the pubic IP address on your virtual machine and use Putty software to establish SSH connection.

irtual machines « 🖍 🗙 giyayahotmail (Default Directory)	Connect to virtual machine				
Add 🕒 Reservations 🛛 •••• More	${igwedge}$ To improve security, enable just-in-time access on this VM. $ imes$				
Filter by name	RDP SSH				
NAME	To connect to your virtual machine via SSH, select an IP address,	optionally change the por	t number, and use one of		
vigoracs2	* ID addrass	🛞 PuTTY Configuration		? ×	
	Public IP address (52.2.11.21.11.3)	Category:	C		
		- Session	Basic options for your PuTT	TY session	
	* Port number	⊡- Terminal	Specify the destination you want to c	onnect to	
	22				
	Login using VM local account	Bell	Connection type: Raw Telnet Rlogin SSH Serial		
	ssh support ilan@52.255.59.198	E- Window			
		- Appearance	Load, save or delete a stored session	1	
		- Translation	Saved Sessions		
	Inbound traffic to the Public IP address may be blocked.	- Selection			
	Networking page.	Colours	Default Settings ACS: GoogleCloud	Load	
		Data	ACS_GoogleCloud_support	Save	
	You can troubleshoot VM connection issues by opening t	- Telnet - Riogin		Delete	
		⊕-SSH - Senal	Close window on exit: Always Never  Only	on clean exit	

- VI. Copy the Vigor ACS2 installer from the Blob container to the VM instance.
  - a. Install AzCopy Utility to Linux CentOS 7.6.
    - 1. Change user to root by entering the command *sudo* –*s*.

Proot@vigoracs2:/home/support_ilan	33	×
Using username "support_ilan".		0
Using keyboard-interactive authentication.		
Password:		
Last login: Thu Mar 21 04:44:57 2019 from mingle.lnk.telstra.net [support_ilan@vigoracs2 ~]\$ sudo -s [sudo] password for support_ilan: [root@vigoracs2 support_ilan]#		

2. Install ICU and libunwind dependencies by entering the command below: *Yum install –y libunwind icu* 



3. Download and extract Azcopy by entering the command below:

Wget – O azcopy.tar.gz <u>https://aka.ms/downloadazcopylinuxrhel6</u> tar –xf axcopy.tar.gz

4. Install AzCopy using the command ./install.sh



- b. Copy the source key from your storage account.
  - Go to Storage Accounts>>vigoracs2diag>>Access keys.
  - Copy source *Key* **1**.

Microsoft Azure			₽ Search re	rsources, services, and docs
«	Home > Storage accounts > vi	goracs2diag - Acce	ss keys	
+ Create a resource	Storage accounts gigiyayahotmail (Default Directory)	× & ×	vigoracs2diag - Access k	eys
Fourier    Image: Dashboard   Image: Dashboard <td>Add EE Edit columns  Filter by name  NAME  Vigoracs2diag</td> <td>•••• More</td> <td><ul> <li>Search (Ctrl+./)</li> <li>Overview</li> <li>Activity log</li> <li>Access control (IAM)</li> <li>Tags</li> <li>Diagnose and solve problems</li> </ul></td> <td>Use access keys to authenticate yo recommend regenerating your acc When you regenerate your access your virtual machines. Learn more Storage account name vigoracs2diag</td>	Add EE Edit columns  Filter by name  NAME  Vigoracs2diag	•••• More	<ul> <li>Search (Ctrl+./)</li> <li>Overview</li> <li>Activity log</li> <li>Access control (IAM)</li> <li>Tags</li> <li>Diagnose and solve problems</li> </ul>	Use access keys to authenticate yo recommend regenerating your acc When you regenerate your access your virtual machines. Learn more Storage account name vigoracs2diag
<ul> <li>Function Apps</li> <li>SQL databases</li> <li>Azure Cosmos DB</li> </ul>			Storage Explorer (preview) Settings Access keys	Key LrQkQkOmrE/k6EhCqytv97A9L0 Connection string
			<ul> <li>Geo-replication</li> <li>CORS</li> <li>Configuration</li> <li>Encryption</li> </ul>	key2         C2           Key         YkC8WAxJrlStRzNFhd5z2hS5eYb
<ul> <li>Azure Active Directory</li> <li>Monitor</li> </ul>			Shared access signature	Connection string DefaultEndpointsProtocol=https

c. Create an AzCopy script to copy the installer from the blob container to your VM instance, use the source key from the storage account.
 Example script:

azcopy \

--source https://vigoracs2diag.blob.core.windows.net/installers \ --destination /home/support\_ilan/installers/Vigoracs2\_2.4.1 \ --source-key LrQkQkOmrE/k6EhCqytv97AL0 \ --recursive



- VII. Installing dependencies, database and Vigor ACS2.
  - a. Enter the command "cd installers/VigorACS2\_2.4.1/"
  - b. Allow root to execute install.sh file by entering the command "chmod 755 install.sh"
  - c. Enter command "./install.sh" to run the Vigor ACS2 installer.
  - d. Type "**y**" to proceed with the installation.



- e. Install the following below:
  - press 1 and enter to install mysql/mariadb
  - press 3 and enter to install influxdb
  - press 4 and enter to install or upgrade Java
  - press 5 and enter to install VigorACS



- f. Type "y" and *press enter* to continue creating ACS database.
- g. Type "1" and *press enter* to select Local side database.
- h. Type "1" and *press enter* to use ACS for Mysql.
- i. Press enter to use blank password for MySQL/MariaDB.
- j. Type "y" and press enter to test password for MySQL/MariaDB.

[Warning] It will clear the existing ACS database an	d create a new one.Do you want to continue? (y/n)
Y	
Do you want to use remote/local database? (1: Local	side database, 2: Remote side database, Enter for Local side da
tabase)	
Which Mysql do you want to use ? ( <mark>1: ACS</mark> , 2: OS def 1	ault, Enter for ACS mysql)
Starting vigoracsmysqld (via systemctl):	[ OK ]
Please keyin password of root of MySQL/MariaDB.	
Do you want to test password now ?(y/n)	
Y	
Access Database Success	
Restarting influxdb (via systemctl):	[ OK ]
Start to install VigorACS	
Archive: VigorACS.zip creating: VigorACS/server/default/deploy/ACSServe	rAPP.ear/
creating: vigorAcs/server/default/deploy/Acsserve	TAPP.ear/Acoberver.war/

[Install VigorACS]

## VIII. Starting database and ACS2.

- a. Start mysql/mariadb, influxdb and VigorACS2.
  - *press 1 and enter* to start mysql/mariadb
  - press 3 and enter to start influxdb
  - press 5 and enter to start VigorACS



- b. Enter the following bellow after selecting 5 (start VigorACS).
  - 1. Bind IP to **0.0.0.0**
  - 2. Optional: enter http port 8844 instead of 80.
  - 3. Optional: enter https port 8443 instead of 443.
  - 4. Press enter to select default ports 347 and 514 for stun and syslog.
  - 5. Press enter to accept default max memory and minimum memory.

```
Vigoracs process id :

    start mysql/mariadb

2. shutdown mysql/mariadb
3. start influxdb

    shutdown influxdb

5. start VigorACS
6. shutdown VigorACS
7. edit bind IP of VigorACS Server(please keyin IP or servername)
8. set the MAX. and MIN. memory value of running java (It will be valid after restarting VigorACS )
. view the MAX. and MIN. memory value of running java
10. exit
input select num :
which ip address do you want to bind for VigorACS service (x.x.x.x or Enter for bind 0.0.0.0 address)?
0.0.0.0
hich http port do you want to bind for VigorACS service ( port number or Enter for 80 port)?
8844
Which https port do you want to bind for VigorACS service ( port number or Enter for 443 port)?
8443
Which stun port do you want to bind for VigorACS service ( port number or Enter for 3478 port)?
Which syslog port do you want to bind for VigorACS service ( port number or Enter for 514 port)?
How many memory do you want to set for VigorACS service? (Enter for default MAX Memory is 1024, MIN Memory is 900 M
MAX Memory What you want? (Unit: MB)
MIN Memory What you want? (Unit: MB)
Starting vigoracs:
[OK]
Mysql process id : 2882 3121
Influxdb process id : 6136
Vigoracs process id :
```

IX. Allowing and editing ports http, https and tr-069 in Microsoft Azure firewall.a. Go to *Virtual machines>>vigoracs2.* 

Microsoft Azure		
«	Home > Virtual machines > vi	goracs2 - Networking
+ Create a resource	Virtual machines gigiyayahotmail (Default Directory)	× \$ ×
🚹 Home	+ Add O Reservations	···· More
∃ All services	Filter by name	
+ FAVORITES	NAME	
All resources	vigoracs2	
🐑 Resource groups		
🔇 App Services		
Function Apps		
👼 SQL databases		
🖉 Azure Cosmos DB		
Virtual machines		
🚸 Load balancers		

b. Select "*Networking, HTTP* and enter "8844" for *Destination port ranges*, then click "Save".

vigoracs2 - Networking				Image: Provide the state of the state o
,O Search (Ctrl+/)	Attach network	vork interface 🛛 🏘 Detach network in	terface	
Overview  Activity log  Access control (IAM)  Tags	Network In Nirtual network Inbound por	nterface: vigoracs2904 Effectiv /subnet: VigorACS2-vnet/default t rules Outbound port rules Ap	re security rules Topology Public IP: <b>52.255.59.198</b> Priv. plication security groups Loa	Source      Any     Source port ranges
X Diagnose and solve problems Settings	Impacts 0 su	Ibnets, 1 network interfaces	PORT	Any  * Destination port ranges  8844
Networking	300	нттр	8844	* Protocol
🛎 Disks	320	HTTPS	8443	Any TCP UDP
👰 Size	340	🔺 SSH	22	* Action
O Security	350	tr-069_8069	8069	Allow Deny
Continuous dellaras (Dentinut)	65000	AllowVnetInBound	Any	300
Continuous delivery (Preview)	65001	AllowAzureLoadBalancerInBoun	d Any	* Name
Configuration	65500	DenyAllInBound	Any	HTTP
% Identity				Description

- c. Do the same for the https, but enter port **8443**.
- d. To add tr-069 port, select "Add inbound port rule".

	Attach network in	terface 🏾 🦇 Detach network interface	e					
Q Overview	🖉 Network Interfa	ce: vigoracs2904 Effective sec	urity rules Topolo	gy				
Activity log	Virtual network/subn	et: VigorACS2-vnet/default Public	IP: 52.255.59.198	Private IP: 10.0.0.4	Accelerated networking	Disabled		
Access control (IAM)	Inbound port rules	Outbound port rules Applicat	tion security groups	Load balancing				
🖉 Tags	Network security		etwork interface: vigo	racs2904)				
X Diagnose and solve problems	Impacts 0 subnets	, 1 network interfaces	iethorie interfacer rigo	10002304)			Add Inbound	port rule
Settings	PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINATION	ACTION	
🙎 Networking	300	нттр	8844	TCP	Any	Any	Allow	
🐸 Disks	320	HTTPS	8443	ТСР	Any	Any	Allow	
👰 Size	340	SSH SSH	22	ТСР	Any	Any	Allow	
C Security	350	tr-069 8069	8069	TCP	Any	Any	Allow	
Extensions	65000	Allow Marshall Pressed	A	A	Via IN a set	Vistue (National)	• All	
🐔 Continuous delivery (Preview)	03000	Anowvneunbound	Any	Any	VIItualivetwork	VIItuainetwork	Allow	
Availability set	65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	Allow	
Configuration	65500	DenyAllInBound	Any	Any	Any	Any	O Deny	

- e. Enter the following below and click "Add".
  - Destination port ranges: 8069
  - Name: *tr-069\_8069*

Source 🚯	
Any	~
Source port ranges <b>o</b>	
*	
Destination <b>6</b>	
Any	~
Destination port ranges	
8069	~
Protocol	
Any TCP UDP	
Action	
Allow Deny	
Priority A	
360	
Name	
I VOITIC	

Add

- X. Accessing the Vigor ACS2 web interface and activating the trial license.
  - a. Type the *public IP address, port number* and enter *username* as" *root"* and *password* as "*admin123*".

$\leftrightarrow \rightarrow G$	A Not secure	https://3u.1. 7.139.701:8443/web/#/login
---------------------------------	--------------	--

Dray Tek VigorACS2

User Name	
Password	۲
Validation Code	5218
Remember me	

b. After selecting "*Activate*" the VigorACS2 will redirect us to the *MyVigor* website to register our VigorACS and activate the 30 days trial license.

	Login to	) VigorACS 2	
A License Warning : Your licen Please go to license server to activate your license	nse is invalid or expired.		Activate
	7147 Remember me	<b>7.1 4.7</b>	
	. Copyright © 2017-2016	DrayTek Corp. All Rights Reserved.	



c. Select "On" under Status and "Login to ACS".

<b>Dray</b> Tek				هٔ Log	in User : ilan_support_acs (Logout		N	ly Vigc
My Information	My Information - My Products	5						
AV/AI	Device Information							
	Device Name : ACSGC Host ID : ACS19 Model : VigorA	-2445 0200051 CS2 Series			Rename	Add Main Key ACS License	Help Transfer	Back
	Device's Service	Expired License					10.000	
	Service	Provider	Action	Status	Start Date	Expired Date	Nodes	Note
	C ACS	DT-ACS-2	Add Main Key	On	2019-02-26	2019-03-28	20	-

VigorACS License Information	
Operation	1000 : License Key OK
License id	00024#59
Start date	2019-02-26
Expire date	2019-03-28
Max node	0000020
Trial license	Yes
	Login to ACS

d. Select "*Change password*" for security purposes.

A Warning : Your ACS is still so root is still set to the default password	et to the default password	I. Please change it ASAP.	Change password Cancel
	root		
	7056	7056	
	Remember me		
	Capyright @ 2017-2019	DrayTek Corp. All Rights Reserved	

e. *Enter new password* and confirm new password.

■ DrayTek VigorACS2			
Q Search	Set Password		
Root Network	Account : root Root Network		
	New Password		۲
NE IWORK MENU		weak	
Dashboard	Confirm Password		۲
Statistics			B Save
Monitoring			
Configuration			

f. Go to "*About*", to verify the License information on VigorACS2.

■ DrayTek VigorACS2	n	
Q Search	E License Info	ormation
Root Network	License Information	
	Host ID	ACS190200051
NETWORK MENU	License ID	00024e59
Dashboard	License Type	Trial
Statistics	Start Date	2019-02-26
Monitoring	Expire Date	2019-03-28
Configuration	Max Node	20
o o miguration	Activate License	+ Click here to activate license
SYSTEM MENU		
Maintenance		
Reports		
Provisioning		
Network Management		
System		
User		
About		
License Information		
License Mail Notify		
License Agreements		

- XI. Change the time zone to *AEDT (Australian Eastern Daylight Time)*.
  - a. Enter the command "*date*" to verify the time zone.
  - b. Enter the command "*mv /etc/localtime /etc/localtime.bak*".
  - c. Enter the command "In -s /usr/share/zoneinfo/Australia/NSW /etc/localtime".
  - d. Enter again the command "*date*" to verify the time zone should be set to *AEDT*.

root@vigoracs2 bin]# date	(m.)	-
ed Feb 27 03:41:14 UTC 2019	1111	<b>P</b> .
root@vigoracs2 bin]# mv /etc/localtime /etc/localtime.bak		
root@vigoracs2 bin]# ln -s /usr/share/zoneinfo/Australia/NSW /etc/localtime		
root@vigoracs2 bin]# date		
ed Feb 27 14:42:11 AEDT 2019		
root@vigoracs2 bin]#		