Resource Group: Create a resource group to associate for all resources to be created in Azure

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Home > Resource groups >							
Create a resource gro	up						×
Basics Tags Review + create							
Resource group - A container that hold resources for the solution, or only those allocate resources to resource groups b	s related resources for an Azure solution. The reso resources that you want to manage as a group. Y ased on what makes the most sense for your orga	ource group can include all the /ou decide how you want to inization. Learn more C					
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Review + create < Previous	Next : Tags >						

Create a Windows Virtual Machine under above created the ResourceGroup.

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ome > Virtual machines >									
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Select the subscription to manage de your resources.	ployed resources and costs. Use resource groups like folders to organize and many	age all							
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/M architecture ①	See all images Configure VM generation								
	x64								

We should mention the username and password to connect to VM while creation only.

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Home > Virtual machines >											
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Administrator account											
Usemame * 🛈	windowsuser 🗸										
Password * ①	······	3									
Confirm password *	·]									
Inbound port rules											
Select which virtual machine network access on the Networking	ork ports are accessible from the public internet. You can specify more limited or granular tab.										
Public inbound ports * ()	O None										
	Allow selected ports										
Select inbound ports *	RDP (3389)]									
	A This will allow all IP addresses to access your victual machine. This is only										
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In Networking tab, check the "Delete IP address when VM is deleted" check box and see that Public IP is set.

Virtual Machine is created.

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Overview	A Windows1-BhargaviNukala virtual machine agent status is not ready. Troubleshoot the i	issue 🔿		
Activity log				
Access control (IAM)				JSON View
Tags	Resource group (move) : AzureRG-BhargaviNukala	Operating system :	Windows	
Diagnose and solve problems	Status : Running	Size :	Standard D2s v3 (2 vcpus, 8 GiB m	nemory)
	Location : East US	Public IP address :	20.153.128.167	
ings	Subscription (move) Free Trial	Virtual network/subnet :	AzureRG-BhargaviNukala-vnet/de	<u>efault</u>
Networking	Subscription ID : 49d571c4-9421-4773-8fdb-101fc91ba274	DNS name :	Not configured	
Connect	Tags (edit) : Click here to add tags			
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We connect to Windows machine using Remote Desktop Connection.

Creation of a Linux Virtual Machine

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Filter for any field Name 1: Linux-BhargaviNukala Windows1-BhargaviNukala	Cverview Activity log Activity log Access control (IAM) Tags Diagnose and solve problems Settings Connect Disks Size Microsoft Defender for Cloud	Sesentials Resource group (move) AzureRG-Bhargavihukala Status Running Location East US Subscription (move) Free Inal Subscription ID 49d57104-9421-4773-8fdb-101fc91ba274 Tags (edit) Click here to add tags Properties Monitoring Canabilities	JSON View Operating system Linux (ubuntu 20.04) Size Stendard 81s (1 vcpu, 1 Gilß memory) Public IP address <u>4:286.142.42</u> Virtual network/subnet <u>Azure86: Pergavitikukala vnet/default</u> DNS name Not configured
< Page 1 V of 1 >	Advisor recommendations Extensions + applications Extensions + applications Continuous delivery Availability + scaling	Virtual machine Computer name Linux-BhargaviNukala Health state	

Connect to Linux machine using "ssh username@publicIP"



Creating extra storage disks and mount a filesystem

In VM, click on Disks, and create a additional disk. Attach it to the VM and save.

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Additional Storage "sdc" avaiable on Linux VM and shows not mounted



Now mount the storage using commands \$mkdir additionalstorage \$mkfs .ext4 /dev/sdc \$mount -t ext4/dev/sdc additionalstorage/

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Create 10 files in the disk using the command \$touch {1..10}.txt



Unmount the additional Storage using the command \$umount additionalstorage/

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-sdal 8:1 0 29.96 0 part / -sdal 8:1 0 40 0 part /bot/efi sdal 8:15 0 100M 0 part /bot/efi sdb 8:16 0 46 0 disk L_sdbl 8:17 8 46 0 part /mnt sdc 8:32 0 46 0 disk sr0 1:0 1 528K 0 rom rootQLinux-BhargaviNukala:/home/Linuxuser#	sda		8:0	0 30	G O dis	k												
Sdal4 8:14 0 4# 0 part /boot/efi sdal5 8:15 0 160M 0 part /boot/efi sdb 8:16 0 46 0 disk L=sdb 8:17 0 46 0 part /mnt sdc 8:32 0 46 0 disk sf0 11:0 1 520K 0 rom rootQLinux-BhargaviNukala:/home/Linuxuser#	-s	dal	8:1	0 29.9	G O par	17												
sdb 8:16 0 46 0 disk Lsdb1 8:17 0 46 0 part/mnt sdc 8:32 0 46 0 disk 9r0 11:0 1 528K 0 rom root@Linux-BhargaviNukala:/home/Linuxuser#	E.	da14 da15	8:14	0 4	M O par	t t_/hoot/s	.44											
L-sdb1 8:17 0 46 0 part/mnt sdc 8:32 0 46 0 disk sr0 11:0 1 528K 0 rom root@Linux-BhargaviNukala:/home/Linuxuser#	sdb	uaro	8:16	0 4	6 0 dis	k												
sdc 8:32 0 4G 0 disk sr0 11:0 1 628K 0 rom root@Linux-BhargaviNukala:/home/Linuxuser#	L_s	db1	8:17	0 4	G 0 part	t /mnt												
root@Linux-BhargaviNukala:/home/Linuxuser#	sdc		8:32	0 4	G O dis	k												E
	510	t@Linux	-Bhar	naviNuka	la:/home.	/Linuxusa	er# 🔳											
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Now attach the same disk to another VM

Microsoft Azure 🕘 Upgrade	, ♀ Search resources, services, and docs (G+/)			P © 0 R	bhargavi.aqua04@gm default directory (BHAR
 Virtual machines > LinuxVM-Sna LinuxVM-Snapsho Virtual machine 	ot Disks					
P Search •	🖫 Save 🗙 Discard 🕐 Refresh	🛞 Additional settings 👂	Peedback 🤌 Tro	ubleshoot		
. Overview	OS disk					
Activity log	≓ Swap OS disk					
Access control (IAM)	Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (- Encryption (i)
🖉 Tags	(inuvDisk-rom)	Premium SSD LRS	32	120	25	SSE with DMAK
Diagnose and solve problems		11011011335 515	ve.	110		Lise with Prine
Settings	Data disks					
2 Networking	P Filter by name	-				
S Connect	Showing 1 of 1 attached data disks					
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📮 Size	+ Create and attach a new disk 🛛 $meta$ 4	attach existing disks				
Microsoft Defender for Cloud	LUN () Disk name	Storage type	Size (GiB)	Max IOPS	Max thro	ughput (Encryption
Advisor recommendations	additionalstorage	Standard SSD	LRS 4	500	60	SSE with Pr
	4					

Connect to the VM and check the disk is already mounted and the additionalStorage is already available on the disk. Also the 10 files which we created in previous VM are also available in this VM.

root@	Linux-Bhan	gaviNukala: /home	/Linuxuser/ac	ditionalsto	orage	_	_	-	-		-	-	 	 -	son Gr	*
Terminal	Sessions	View X server	Tools Gan	nes Settir	ngs Macros H	Help										
Session	Servers	🚴 🍂 Tools Games	n tessons	Vew	Spit Multe	xec Tunneli	ng Packages	s Settings	Поредина и се на се						X X server	Exit
Quick	connec	ct	5 - 1091-0945 - 1	1	3. root@L	inux-Sharqa	/iNukala:/ho		5. root@Linux-	SharqaviNukal	lash × (6)					0
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Snapshot:

Create a Linux VM and install apache2. \$apt update \$apt install apache2



Check the status of apache2 running \$systemctl status apache2



Add the Inbound rule for HTTP-80 port in Networking tab of VM

Microsoft Azure 💿 Upgrade	$\mathcal P$. Search resources, se	rvices, and docs (G+/)		🔄 🕞 🕞 🎯 👁 🖗 bharg	gavi.aqua04@gmail. LT DIRECTORY (BHARGAVI.
Virtual machines > Linux-Bhargav Linux-BhargaviNul Virtual machine	Nukala cala Network	i ng ☆ … Interface o ⁰ Detach network interface	Feedback	Add inbound security rule InuxBhergaviNukalensg533 Source ()	
Overview	ipconfig1 (Primar	y) V	PAS / COMPLEX	Any Source port ranges * ③	~
Activity log	Cirtual network/su	rface: linux-bhargavinukala824 Eff bnet: AzureRG-BhargaviNukala-vnet/default	ective security r NIC Public	v Destination (0)	
Tags	Inbound port n	iles Outbound port rules Applicat	ion security gra	Any	Ň
Diagnose and solve problems Settings	Network secu Impacts 0 sub	irity group LinuxBhargaviNukalansg533 (nets, 1 network interfaces	attached to net	Service () HTTP	~
2 Networking	Priority	Name	Port	Destination port ranges ①	
of Connect	300	🙆 SSH	22	80	
E Disks	310	AllowAnyHTTPInbound	80	Protocol Any	
Size	65000	AllowVnetInBound	Any	TCP	
Microsoft Defender for Cloud	65001	AllowAzureLoadBalancerinBound	Any	O UDP	
Advisor recommendations	65500	DenyAllInBound	Any	O ICMP	
Extensions + applications				Action	
a Continuous delivery				(Allow	
				Add Cancel	G Give fee

Access the webpage from browser using public IP of VM



Go to VM->Disks->Create Snapshot of the disk



Now create a disk from the created snapshot Goto Created Snapshot->Create Disk

Microsoft Azure	P Search resources, services, and docs		D G C	© Ø R	bhargavi.aqua04@gmail DEFAULT DIRECTORY (BHARGAVI
e. >					
LinuxDisk-c	opy 🖉 🕁				×
+ Create VM +	Create VM image version + Create snapshot	Delete 🕐 Refresh			
∧ Essentials					JSON View
Resource group (mov	e) : AzureRG-BhargaviNukala	Disk size	: 32 GIB		
Disk state	: Attached	Disk sku	: Premium SSD LRS		
Location	: East US	Managed by	: LinuxVM-Snapshot		
Subscription (move)	: Free Trial	Operating system	: Linux		
Subscription ID	: 49d571c4-9421-4773-8fdb-101fc91ba274	Completion perce	nt : 100		
Time created	: 12/12/2022, 7:54:32 PM	Max shares	0		
		Availability zone	: None		
		Performance tier	: P4 - 120 IOPS, 25 MBps		
		Security type	: Standard		
Taos (edit)	: Click here to add tags				

From the newly created disk-> create a VM Select the above created disk in OS dropdown box

C portal.azure.c Microsoft Azure	om/#@bhargaviaqua04gmail.onmicrosoft.com/resource/subscrip	tions/49d571c4-9421-4773-8fdb-101fc91b	a274/resourcegroups/Azu 🖪 付 🕏	x 🗙 🛪 🗊 🖬 🌘
Microsoft Azure	P Search resources, services, and docs (G+/)			
ne >			E 🖓 🖓 🕸 Ø R	bhargavi.aqua04@gmai DEFAULT DIRECTORY (BHARGAV
LinuxVM-Snaps	.hot & ☆ …			
Ø Connect ∽ ▷ Start	🕻 Restart 🔲 Stop 🕅 Capture 📋 Delete 💍 Refresh	🗓 Open in mobile 😞 CLI / PS 🔗 Feed	pack	
∧ Essentials				JSON View
Resource group (move) :	AzureRG-BhargaviNukala	Operating system : Linux	(ubuntu 20.04)	
Status :	Running	Size : Stand	lard B1s (1 vcpu, 1 GiB mem <mark>ory</mark>)	
Location :	East US	Public IP address ; 13.68	171.129	
Subscription (move)	Free Trial	Virtual network/subnet : Azure	RG-BhargaviNukala-vnet/default	
Subscription ID ;	49d571c4-9421-4773-Bfdb-101fc91ba274	DNS name : Not o	configured	
Taos (edit)	Click here to add tast			

After the new VM is created from the snapshot, check the status of apache2. We can see that apache2 is already installed.

root@Linux-BhargaviNukala: /home/Linuxuse		and a second	and the second se	And and a second se	
Terminal Sessions View X server Tools	Sames Settings Macros H	elp			
Sesson Servers Tools Games Sesso	ns View Spit Multe	kec Tunneling Packages Sett	rings Help		X 🙂
Quick connect	2. roo1@Lit	nux-BhargaviNukala;/hoo	3. root@Linux-BhargaviNukala		0
Linuxuser@Linux-BhargaviNukala:/ho root@Linux-BhargaviNukala:/ho apache2.service - The Apach Conded: loaded (/ib/sy; Active: active (running) Process: 27818 ExecRoload Main PID: 881 (apache2) Tasks: 55 (linit: 1076) Memory: 12.8M CGroup: /system.Blice/ap - 27822 /usr/sbi 27822 /usr/sbi Dec 12 14:28:01 Linux-Bhargav Dec 14 68:00:02 Linux-Bhargav Dec 14 68:00:02 Linux-Bhargav Dec 15 68:00:15 Linux-Bhargav Dec 15 68:00:15 Linux-Bhargav Dec 16 68:00:15 Linux-Bhargav Dec 16 68:00:15 Linux-Bhargav Dec 16 68:00:15 Linux-Bhargav Dec 17 68:00:15 Linux-Bhargav	<pre>srs sudo su er/Linuxusor # pystemic HTTP Server tem//system/apachez.s since Mon 2022-12-12 inche.org/doc/2.4/ r/usr/sbin/apachez12-12 inche.org/doc/2.4/ r/usr/sbin/apachez12-12 indea.systemic //apache2 - k start //apache2 - k start //ukala systemic 11 : S Nukala systemic 11 : S Nukala systemic 11 : R Nukala systemic 11 : R</pre>	tl status apache2 ervine: enabled; ven 14:28:03 UTC; 4 day graceful (code=exite tarting The Apache H eloading The Apache H	dor preset: enabled) s ago d, status=0/SUCCESS) TTP Server. TTP Server. HTTP Server.		Α

Machine Image:

Create an Ubuntu machine and install apache2 and php as mentioned in the link https://www.tecmint.com/install-lamp-with-phpmyadmin-in-ubuntu-18-04/

		DETADG DE
in mobile 📙 CLI / PS 🔗 Feedba	ick	
		JSON VI
Operating system : Linux (ubuntu 20.04)	
Size : Standa	rd 81s (1 vcpu, 1 GiB memory)	
Public IP address : 20.228	178.253	
Virtual network/subnet : AzureF	G-BhargaviNukala-vnet/default	
DNS name : Not co	ntigured	
Networking		
Public IP address	20.228.178.253	
Public IP address (IPv6)	*	
Private IP address	10.0.0.4	
	n in mobile <table-cell> CLI / PS 🗭 Feedba Operating system : Linux (Size : Standa Public IP address : 20.228 Virtual network/subnet : <u>Acure®</u> DNS name : <u>Not co</u> Public IP address Public IP address (IPv6) Private IP address</table-cell>	n in mobile 💽 CLI / PS 🍋 Feedback Operating system : Unux (ubuntu 20.04) Size : Standard B1s (1 vcpu, 1 GiB memory) Public IP address : 20.228.178.253 Virtual network/subnet : <u>AzureRG-BhargaviNukala-vnet/default</u> DNS name : <u>Not configured</u> Public IP address 20.228.178.253 Public IP address (IPv6) - Private IP address 10.0.0.4

Install apache2 and php

root@	VM-Bharga	aviNukala: /ho	me/Linuxuser	-	-	-	1.000	-	-	and the second second	A CONTRACTOR OF A DOCUMENT OF A DOCUMENT	W	×
Termina	Sessions	View X ser	iver Tools Ga	mes Settin	ngs Macro	os Help							
5ession	Servers	Tools G	🙀 🔆 🌟	View	Split	Y MultiExec	Tunneling	Packages	settings	(2) Help		X server	(U) Exit
Quic	k conner	ct		-	10 2 /h	o me/moha	rterm			S mot@V	ALBracewillukala hor x		Ð
Local Control	t@WH-Bhk pache2:1 Loader Active Process Man PII Tasks Momory CGroup 17 12:0 17	orgavikuk service - d: loaded e: active s: <u>https:/</u> : 10735 E : 10745 E : 1	<pre>lla:/home/ti The Apache (/lib/syste (/lib/syste (ruming): /httpd.apache2) t: 1076) .slice/apact /usr/sbin/ /usr/sbin/ /usr/sbin/ i/us</pre>	nuxuser# hTTP Ser md/syste ince Sath he.org/d sr//sbin/ he2.serv apache2 apache3 apache2 apache3 apach	system ver m/apach (20221) iacs/2.4 apachec /ice -k star -k star	ctl sta e2.seru 2_17 1: tl star t t t t t t t t t t t t t t t t t t	rtus ap vice; e 2:92:18 rt (cod 2:servi 1 The A 5 The A	ache2 nabled; UTC; 2 e=exitc e=exitc pache + pache + pache + pache +	vendor 185 ago .ceeded. 11TP Ser 11TP Ser 11TP Ser	r preset tus=0/St rver. ver.	t: enabled) uccess)		

Access the webpage of VM using public IP/info.php

	R 2	ar D	X	* =J	ш	-
PHP Version 7.4.3	Php					
System	Linux VM-BhargaviNukala 5 15.0-1029-azure #38-20.04.1-Ubuntu SMP Tue Dec 6 17:00:26 UTC 2022 x96_64					
Build Date	Nov 2 2022 09:53:44					
Server API	Apache 2.0 Handler					
Virtual Directory Support	disabled					
Configuration File (php.ini) Path	letc/onp/7.4/apache2					
Loaded Configuration File	Jetc/php17.4/apache2/php.ini					
Scan this dir for additional .ini files	Jetc/php/7.4/apache2/confid					
Additional .ini files parsed	Velotipit7: Alapache2iconf.d110-mysclind.im, letel.phtp7:// Alapache2iconf.d10-0-opc.ache.im, Velotipht7: Alapache2iconf.d10-opc.im. (etc).pht7: Alapache2iconf.d20-editendarium, Velotipht7: Alapache2iconf.d20- http://dapache2iconf.d10-opt.peinin, (etc).pht7: Alapache2iconf.d20-editind.im, Velotipht7: Alapache2iconf.d20- minin, (etc).pht7: Alapache2iconf.d10-opt.peinin, (etc).pht7: Alapache2iconf.d20-exonvini, Velotipht7: Alapache2iconf.d10-opt.peininit7: Alapache2iconf.d20-exonvini, Velotipht7: Alapache2iconf.d10-opt.peinit7: Alapache2iconf.d20-exonvini, Velotipht7: Alapache2iconf.d10-opt.peinit7: Alapache2iconf.d20-exonvini, Velotipht7: Alapache2iconf.d10-opt.peinit7: Alapache2iconf.d20-exonvini, Velotipht7: Alapache2iconf.d120-exonvini, itel.phtp7: Alapache2iconf.d20-exonvini, Velotipht7: Alapache2iconf.d120-exolves.im, /etc)pht7: Alapache2iconf.d20-exonvini, Velotipht7: Alapache2iconf.d120-exolves.im, /etc)pht7: Alapache2iconf.d20-exonvini, Velotipht7: Alapache2iconf.d120-exolves.im, /etc)pht7: Alapache2iconf.d20-exolves.im, Velotipht7: Alapache2iconf.d120-exolves.im, /etc)pht7: Alapache2iconf.d20-exolves.im, Velotipht7: Alapache2iconf.d120-exolves.im, /etc)pht7: Alapache2iconf.d20-exolves.im, Velotipht7: Alapache2iconf.d120-exolves.im, /etc)pht7: Alapache2iconf.d120-exolves.im, Velotipht7: Alapache2iconf.d120-exolves.im, /etc)pht7: Alapache2iconf.d120-exolves.im, /etc)pht7: Alapache2iconf.d120-exolves.im,					
PHP API	20190902					
PHP Extension	20190902					
Zend Extension	320190902					
Zend Extension Build	API320190902,NTS					
PHP Extension Build	AFI20190902,NTS					
Debug Build	no					
Thread Safety	disabled					
Zend Signal Handling	enabled					
Zond Memory Mananer	enabled					

To create an image of the above created VM, goto VM->Capture

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			a second and a second	DETADL	DIRECTOR
llery_BhargaviNukala/LinuxImage/0.0	0.1) ☆ ☆ …				×
Create VMSS 📋 Delete 💍 Refresh					
					JSON View
) : <u>AzureRG-BhargaviNukala</u>	Azure compute gallery	: VMGallery BhargaviNukala			
: Succeeded	VM image definition	t Linuximage			
: East US	Replication status	a Completed			
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: 49d571c4-9421-4773-8fdb-101fc91ba274	Encryption type	: Platform-managed key			
are a subject of the subject of the					
	Illery_BhargaviNukala/LinuxImage/0.0 Create VMSS Delete > : AzureRG: EhargaviNukala : : Succeeded : East US : : free Trial : 49d571c4-9421-4773-8fdb-101fc91ba274	Illery_BhargaviNukala/LinuxImage/0.0.1) * * ··· Create VMSS Delete Refresh 9 : AzureRC: BhargaviNukala Azure compute gallery 9 : AzureRC: BhargaviNukala Azure compute gallery 9 : Succeeded VM image definition 1: East US Replication status 1: Firee Trial Confidential compute en 1: 49d571c4-9421-4773-8fdb-101fc91ba274 Encryption type	Illery_BhargaviNukala/LinuxImage/0.0.1)	Illery_BhargaviNukala/LinuxImage/0.0.1) * * ··· Create VMSS Delete Refresh 9 : AzureRG: BhargaviNukala Azure compute gallery : <u>UMGallery, BhargaviNukala</u> 9 : AzureRG: BhargaviNukala Azure compute gallery : <u>UMGallery, BhargaviNukala</u> 1: Succeeded VM image definition : LinuxImage 2: East US Replication status : Completed 1: free_Trial Confidential compute en : - : encryption type 1: 49d571c4-9421-4773-Bfdb-101fc91ba274 Encryption type : Platform-managed key	Illery_BhargaviNukala/LinuxImage/0.0.1)

Create a VM from this Image by selecting this image in OS section of VM.

IfromImage - Microsoft Azure X (PHP 7.4.3 - phpmfol) X +	
C for portal.azure.com/#@bhargaviaqua04gmail.onmicrosoft.com/resource/subse	criptions/49d571c4-9421-4773-8fdb-101fc91ba274/resourcegroup 🗣 ڬ 🖄 🛠 🔀 🏚 🗐 🔲
Microsoft Azure ③ Upgrade P Search resources, services, and docs (G+/)	Default of P 🖓 🛞 D 🕞 Default of Default o
>	
VMfromImage 💉 🛪 😁	
Virtual machine	
🔊 Connect 🗸 ▷ Starl 🤇 Restarl 🔲 Stop 😹 Capture 📋 Delete 🖒 Refresh	1 🗓 Open in mobile 😞 CLI / PS 🔗 Feedback
a Farmelale	
Codenicato	
Resource group (move) : AzureRG-BhargaviNukala	Operating system : Linux (ubuntu 20.04)
Status : Running	Size : Standard B1s (1 vcpu, 1 GiB memory)
Location : East US	Public IP address : 20.121.186.190
Subscription (move) : Free Trial	Virtual network/subnet : AzureRG-BhargaviNukala-vnet/default
Subscription ID : 49d571c4-9421-4773-8fdb-101fc91ba274	DNS name : <u>Not configured</u>
Tags (edit) : Click here to add tags	
Properties Monitoring Capabilities (7) Recommendations Tutorials	
📮 Virtual machine	🧟 Networking
Computer name VMfromImage	Public IP address 20.121.186.190
Health state -	Public IP address (IPv6) -
Operating system Linux (ubuntu 20.04)	Private IP address 10.0.0.5
Publisher canonical	Private IP address (IPv6) -
Offer 0001-com-ubuntu-server-focal	Virtual network/subnet AzureRG-BhargaviNukala-vnet/defauit

Check that apache2 and php are already installed in this new VM



A VMtromimage - Mic ← → C A N	Vot secure 20121.186.190/infc.oho	× (+	
	PHP Version 7.4.3	php	
	System	Linux VMtromimage 5 15.0-1029-azure #35-20.04 1-Uburtu SMP Tue Dec 6 17:00:26 UTC 2022 x85_64	
	Build Date	Nov 2 2022 09 53 44	
	Server API	Apache 2.0 Handler	
	Virtual Directory Support	disabled	
	Configuration File (php.ini) Path	/etc/cho/7.4/apache2	
	Loaded Configuration File	/etc/php/7_4/apache2/php ini	
	Scan this dir for additional .ini files	/etc/php/7.4/apache2/conf.d	
	Additional ini files parsed	/etc/bb/7.4/apache2/conf.df/1-myogind.mi./etc/bb/7.4/apache2/conf.df/1-opacehe.mi, /etc/bb/7.4/apache2/conf.df/10-pdo.mi,/etc/bb/7.4/apache2/conf.d20-aplendar.mi, /etc/bb/7.4/apache2/conf.df/20-typacini,/etc/bb/7.4/apache2/conf.d20-ballmi,/etc/bb/7.4/apache2/conf.df/20- ff.im,/etc/bb/7.4/apache2/conf.df/20-ballmi,/etc/bb/7.4/apache2/conf.df/20-ballmi,/etc/bb/7.4/apache2/conf.df/20- fil.im,/etc/bb/7.4/apache2/conf.df/20-ballmi,/etc/bb/7.4/apache2/conf.df/20-pdetx.mi,/etc/bb/7.4/apache2/conf.df/20- ticonr.mi,/etc/bb/7.4/apache2/conf.df/20-ballmi,/etc/bb/7.4/apache2/conf.df/20-pdetx.mi,/etc/bb/7.4/apache2/conf.df/20- ticonr.mi,/etc/bb/7.4/apache2/conf.df/20-ballmi,/etc/bb/7.4/apache2/conf.df/20-pdetx.mi,/etc/bb/7.4/apache2/conf.df/20- ticonr.mi,/etc/bb/7.4/apache2/conf.df/20-ballmi,/etc/bb/7.4/apache2/conf.df/20-ballmi,/ /etc/bb/7.4/apache2/conf.d20-ballmi,/etc/bb/7.4/apache2/conf.df/20-ballmi,/ /etc/bb/7.4/apache2/conf.df/20-ballmi,/etc/bb/7.4/apache2/conf.df/20-ballmi,/ /etc/bb/7.4/apache2/conf.df/20-ballmi,/etc/bb/7.4/apache2/conf.df/20-ballmi,/ /etc/bb/7.4/apache2/conf.df/20-ballmi,/etc/bb/7.4/apache2/conf.df/20-ballmi,/ /etc/bb/7.4/apache2/conf.df/20-ballmi,/etc/bb/7.4/apache2/conf.df/20-ballmi,/ /etc/bb/7.4/apache2/conf.df/20-ballmi,/etc/bb/7.4/apache2/conf.df/20-ballmi,/ /etc/bb/7.4/apache2/conf.df/20-ballmi,/etc/bb/7.4/apache2/conf.df/20-ballmi,/ /etc/bb/7.4/apache2/conf.df/20-ballmi,/etc/bb/7.4/apache2/conf.df/20-ballmi,/ /etc/bb/7.4/apache2/conf.df/20-ballmi,/etc/bb/7.4/apache2/conf.df/20-ballmi,/ /etc/bb/7.4/apache2/conf.df/20-ballmi,/etc/bb/7.4/apache2/conf.df/20-ballmi,/etc/bb/7.4/apache2/conf.df/20-ballmi,/ /etc/bb/7.4/apache2/conf.df/20-ballmi,/etc/bb/7.4/apache2/conf.df/20-ballmi,/ /etc/bb/7.4/apache2/conf.df/20-ballmi,/etc/bb/7.4/apache2/conf.df/20-ballmi,/ /etc/bb/7.4/apache2/conf.df/20-ballmi,/etc/bb/7.4/apache2/conf.df/20-ballmi,//etc/bb/7.4/apache2/conf.df/20-ballmi,//etc/bb/7.4/apache2/conf.df/20-ballmi,//etc/bb/7.4/apache2/conf.df/20-ballmi,/etc/bb/7.4/apache2/conf.df/20-ballmi,/etc/bb/7.	
	PHP API	20190902	
	PHP Extension	20190902	
	Zend Extension	320190902	
	Zend Extension Build	API320190902,NT8	
	PHP Extension Build	API20190902,NTS	
	Debug Build	no	
	Thread Safety	disabled	
	Zend Signal Handling	enabled	
	Zend Memory Manager	enabled	
-	Zend Multibyte Support	disabled	
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Network Security Group

Create a Vnet with two subnets-use Virtual Networks to create a Vnet.

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Resource group (move) ; AzureRG-BhargaviNukala		Address space	: 10.1.0.0/16					
Location (move) : East US		DNS servers	: Azure provided	DNS service				
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Topology Capabilities (5) Recommendation	ons Tutorials							
DDoS protection	Azure Firewall	Contract Peerings		Security				
Configure additional protection	Protect your network with a	Seamlessly conne	ct two or more	Filter net	work traffic to and fr	om		
from distributed denial of service	stateful L3-L7 firewall.	virtual networks.		Azure rei	sources.			
attacks.								

In the Vnet, create 2 subnets

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e > Virtual networks > AzureVnet-Bh	argaviNukala	20 XXX **					
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Now create one VM in each subnet.

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< Previous Page 1 V of 1 Next > Showing 1 to 2 of 2 records.	Red Give feedback

Setup IIS server on both VM s. As we have created Vnet with default Inbound and Outbound rules, with default rules, only Inbound traffic from same Vnet are allowed and from outside is not allowed.

Load Balancer:

Create a Load Balancer by adding a new Frontend Configuration and adding a new Public IP.

🔺 Add frontend IP configuration - 🗙 🕲 PHP 7.4.3 - phpinfor) 🛛 🗙 🕲 20.169.139.182 X (+)	
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Home > Load balancing Load Balancer >	Add frontend IP configuration ×
Create load balancer	3
	Name *
	Frontend-LB 🖌
Basics Frontend IP configuration Backend pools inbound rules Outbound rules lags Review + create	IP version
A frontend IP configuration is an IP address used for inbound and/or outbound communication as defined within load balancing, inbound NAT, and outbound ru	IPv4 O IPv6
	IP type
+ Add a frontend IP configuration	IP address IP prefix
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And a frontend IP to get started	(New) PubIP-LB 🔗
	Create new
	Gateway Load balancer ①
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Review + create < Previous Next : Backend pools > Downicad a template for automation @Give feedback	Add



Now add Backend pools for LB. Select the created Vnet and the machines we created in 2 subnets and add them to Backend Pool of LB.

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Home > Microsoft:LoadBalancer-20221221182224 Overview > LB-BhargaviNukala Backend pools > Add backend pool LB-BhargaviNukala Wittual network © Backend Pool Configuration IP configurations Pr configurations associated to virtual machines and virtual machine scale sets must be in same location as the load balancer and be in the same virtual network. + Add × Remove: Resource Na Resource Na Resource Row Type IP configuration		🕑 🔎 Search resources, servi	ces, and docs (G+/)	X					Ģ	٩	<u>ن</u> ھ	D A?	bhar	gavi.ac	quaC4@ DEFAULT D	gmail. RECTORY	8
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Add a health probe for LB

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Home S Microsoft LoadBa Add health pro LB-BhargaviNukala	lancer-20221221182224 Overview > 18-BhargaviNukala Health probes >				×
Health probes are used backend instance then	to check the status of a backend pool instance. If the health probe fails to get a response from a to new connections will be sent to that backend instance until the health probe succeeds again.				
Name *	HealthProbe-LB	4			
Protocol *	TCP	\sim			
Part * 🕕	80				
Interval * 🕤	5	seconds			
Used by 🕕	Not used				

Add Load Balancing Rules by selecting the above created Frontend, Backend pool and health probe

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E Microsoft Azure	D P Search resources, services, and docs (G+/)		E & @ @ 0)	bhargavi.aqua04@gmail
Home > Microsoft.LoadBalance	r-20221221182224 Overview > LB-BhargaviNukala Load bal	ancing rules >		
LB-Rule1 LB-BhargaviNukata				×
A load balancing rule distribution backend pool instances. Only	tes incoming traffic that is sent to a selected IP address and port combine backend instances that the health probe considers healthy receive new tra	tion across a group of ffic.		
Name	18-Rule1			
IP Version *	 IPv4 IPv6 			
Frontend IP address * ③	Frontend-LB (20.115.116.16)	\sim		
Backend pool * 💮	BackendPool-LB	×		
Protocol *	TCP UDP			
Port *	80			
Backend port * ①	80			
Health probe * 🛈	HealthProbe-LB (TCP:80)	\sim		

Check that IIS server is installed on two VMs. Make changes in web pages located at C:\inetpub\wwwroot to display VM1 and VM2.

Access webpage from browser using public IP of VM.

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As seen, once VM1 is called and once VM2 is called by Load Balancer.



VPC:

Create a Virtual Network. Add 2 subnets, one public subnet and one private subnet.

Create virtual network 🗙 😨	PHP 7.4.3 - phpinto0 × 0 20.169.139	× 202	(O ID)	Windows Server	×	IS W	ndows server	~	0	TO ALLO	20113 DL	iver	^						
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IPv4 address space 10.1.0.0/16 10.1.0.0 - 10.1.25	5.255 (65536 addresses)																		
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Create 2 Vms, one in Public subnet and one VM in private subnet. Public VM should be created by selecting the public IP.

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Home > Virtual machines >								
Create a virtual mach	nine						>	
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Define network connectivity for your inbound and outbound connectivity v	intual machine by configuring network interface card (NIC) settings. You can control ports, with security group rules, or place behind an existing load balancing solution. Learn more \mathcal{O}							
Network Interface								
When creating a virtual machine, a ne	twork interface will be created for you							
	work interface will be created for you.							
Virtual network * ①	VirtualNetworkI-BhargaviNukala							
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Private VM should be created by not selecting the public IP.

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Create a NAT Gateway to get Internet to Private Subnet. Select the Virtual Network and the private subnet where you want Internet.

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Create network addres	ss translation (NAT) gateway		×
To use the NAT gateway, at least one sub gateway.	onet must be selected. You can add and remove subnets after creating the NAT		
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Now connect to private machine from public machine using remote desktop connection of public VM. Access google.com on private VM and the page is displayed.

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VPC Peering:

Create another Virtual Network in another region.



Now create a VM in Virtual Network2.



Add Peering in Virtual Network1. Goto VirtualNetwork1 and click on Peerings. Add peering between both Vnets. As seen,Two peerings are created between 2 Vnets. VN1->VN2



VN2->VN1

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C portal.azure.com/#@bl Microsoft Azure	nargaviaqua04gmail.onmicrosoft.com/ rch resources, services, and docs (G+/)	resource/subscriptions/49d571c4-9421-4773	8fdb-101fc91ba274/resourceGroup 💊	· 😉 🔄 🛠 🔀 🛸 · ① 💭 bhargavi.a	qua04@gmail DEFAULT DIRECTORY
e > Virtual networks > VitualNetwork VitualNetwork2-B Virtual network	^{k2-BhargaviNukala} hargaviNukala Peerir	ngs 🖈			×
Search Search Search Search Search	+ Add () Refresh () S	Peering status == all			
Subnets	Name ↑↓	Peering status 1.	Peer 14	Gateway transit ↑↓	
DDos protection	VN2-to-VN1	Connected	VirtualNetwork1-BhargaviNukala	Disabled	
Firewall					
Microsoft Defender for Cloud					
Network manager					
DNS servers					
Peerings					
Service endpoints					
b Private endpoints					
Properties					
🔒 Locks					
Monitoring					
👪 Alerts					

Now a peering is established and when you use private IP of VM of VN2 to connect from VM of VN1, you should be able to connect.

Dashboard	For PubVM1			TASKS
Local Server	Computer name	PubVM1	last installed undates	Never
All Servers	Workgroup	WORKGROUP	Windows Update	Install updates automatically using Windows Update
File and Storage Services D			Last checked for updates	Today at 5:58 AM
	Microsoft Defender Firewall	Private: On	Microsoft Defender Antivirus	Real-Time Protection: On
	Remote management	Enabled	Feedback & Diagnostics	Settings
	Remote Desktop	Enabled	IE Enhanced Security Configuration	On
	NIC Teaming	Disabled	Time zone	(UTC) Coordinated Universal Time
	Ethernet	IPv4 address assigned by DHCP, IPv6 enabled	Product ID	00446-96000-00000-AA336 (activated)
	Operating system version	Microsoft Windows Server 2022 Datacenter Azure Edition	Processors	Intel(R) Xeon(R) Platinum 8272CL CPU @ 2.60GHz
	Hardware information	Microsoft Corporation Virtual Machine	Installed memory (RAM)	8 GB
			Total disk space	142.45 GB
	EVENTS All events 2 total			TASKS
	Filter	• (H) • (H)		
	Server Name ID Sevent	y Source Log Date at A Microsoft-Windows-DistributedCOM System 12/26/2	nd Time 1022 607:42 AM	