CLOUD

SWATHI MOUROUGUESSIN B2B 16/02/2024

Introduction

Vous avez été missionné pour construire une petite infrastructure Cloud dans un environnement Microsoft Azure.

Vous utiliserez votre abonnement « Azure pour étudiant » fournit par votre établissement scolaire.

Création d'un groupe de ressources

1. À l'intérieur du portail Azure, créez un nouveau groupe de ressources appelé « Examcloud ».

Connectez-vous à votre compte Azure avec ce https://portal.azure.com/

Pour créer un nouveau groupe de ressources nommé "ExamCloud" dans la région Azure "France Central", suivez ces étapes :

Dans le volet de gauche, cliquez sur "Resource groups".

=	Microsoft Azure			𝒫 Search resources	, services, and doc	s (G+/)				D Q	© (୭ ନ	swathi.mourouguessin SUP DE VINCI (SUPDEVINCI.FR)
		Azure service	es										Î
		+		()	P	•	•	×	۲			\rightarrow	
		Create a resource	All resources	Resource groups	Monitor	Virtual machines	Education	Quickstart Center	App Services	Storage accounts	Mor	e services	

Cliquez sur le bouton "Create" pour créer un nouveau groupe de ressources.



2. Sélectionnez la région azure « France Central » pour votre déploiement.

Remplissez les détails suivants dans le formulaire de création : Resource Group : ExamCloud Subscription : Azure for Students Region: Sélectionnez "France Central"

Home > Resource groups >						
Create a resource group	Create a resource group					
Basics Tags Review + create						
Resource group - A container that holds rel resources for the solution, or only those reso allocate resources to resource groups based	ated resources for an Azure solution. The resource group can include all the ources that you want to manage as a group. You decide how you want to I on what makes the most sense for your organization. Learn more C					
Project details						
Subscription * (i)	Azure for Students V					
Resource group * ①	Examcloud]				
Resource details						
Region * 🛈	(Europe) France Central 🗸 🗸]				

 Review + create
 < Previous</th>
 Next : Tags >

Cliquez sur "Next :Tags" pour vérifier les détails et cliquez sur "Review + Create" pour créer le groupe de ressources.

Configuration d'un réseau virtuel

1. À l'intérieur du groupe de ressources, créez deux réseaux virtuels nommes Vn1 et Vn2.

Dans le volet de gauche, cliquez sur "Ressource groups" et sélectionnez le groupe de ressources "ExamCloud" que vous avez créé précédemment.



Dans le groupe de ressources, cliquez sur "Create" pour créer un nouveau réseau virtuel.



La création d'un réseau virtuel peut se faire en cinq étapes : Basics, IP Address, Security, Tags, Review + create.

Remplissez les détails suivants dans le formulaire de création pour vn1 : Nom : vn1

2. Définissez la plage d'adresses IP 192.168.23.0/24 Pour Vn1 ainsi qu'un sous-réseau svn1 prenant l'entièreté de la plage d'adresse de Vn1.

Nom du sous-réseau : svn1

Home > Examcloud > Market	place > Virtual network >		
Create virtual net	work		
Basics Security IP addre	sses Tags Review + c	reate	
virtual network address space in	to smaller ranges for use by vo	ur applications. When you o	deploy resources into a subnet. Azure
assigns the resource an IP addre	ss from the subnet. Learn more	e 🖻	acpioy resources into a subnet, Azare
Add IBv4 address space	$\overline{\mathbf{v}}$		
Add IPV4 address space			
192.168.23.0/24			Delete address space
192.168.23.0/24	/24		
192.168.23.0 - 192.168.23.	255 256 addresse	5	
+ Add a subnet			
[//dd d subject			
Subnets	IP address range	Size	NAT gateway
svn1	192.168.23.0 - 192.168.23	255 /24 (256 addresses)	- 🖉 🖻
gateway. Learn more	ended for outbound internet acce	ess from subnets. Edit the subr	net to add a NAI
Previous Next	Review + create		

Plage d'adresses : 192.168.23.0/24

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Home > Examcloud > Marketplace Create virtual netwo	e > Virtual network > prk …	A	dd a subnet			:	×
Basics Security I Paddre Configure your virtual network addr Define the address space of your vir virtual network address space into s assigns the resource an IP address f	Isses Tags Review + create Iss space with the IPv4 and IPv6 addresses and subnets wal network with one or more IPv4 or IPv6 address rang naller ranges for use by your applications. When you do on the subnet. Learn more G [*]	Self sele Sub you need. Lee Nar ges. Create sub eploy resource	Hect an address space and configure your lect services later. Learn more G [*] abnet purpose () ame * () v4	subnet. You can customize a default subr Default svn1	net or select fro	om subnet templates if you plan to add	
Add IPv4 address space 1 × 192.168.23.0/24 192.168.23.0/24 192.168.23.0 - 192.168.23.255 + 4.44 a pubmet	/24 ↓ ↓ 256 addresses	IPv4	uude an II-Y4 address space v4 address range * ① arting address * ① ze ① ubnet address range ①	192.168.23.0/24 192.168.23.0 192.168.23.255 192.168.23.0 /24 (256 addresses) 192.168.23.0 - 192.168.23.255		~	9 2 8
Subnets • default	IP address range Size 10.0.0.0 - 10.0.0.255 /24 (256 addresses)	NAT gatewa incl - Priv the for	v6 clude an IPv6 address space rivate subnet: PRIVIEW ivate subnets enhance security by not pro i internet, it is necessary to explicitly gran r virtual machines in the subnet. Learn m	This virtual network has no IPv6 addr viding default outbound access. To enable t outbound access. A NAT gateway is the ore C	ress ranges. le outbound co recommended	onnectivity for virtual machines to access d way to provide outbound connectivity	5
Previous Next	Review + create	Ena	Add Cancel	_			Ŧ

Sélectionnez "France Central" comme région

Sélectionnez "ExamCloud" comme groupe de ressources

Cliquez sur "Review + Create", puis sur "Create" pour créer le réseau virtuel vn1 avec le sous-réseau svn1.

Home > Examcloud	> Marketplace	> Virtual	network >
Create virtua	al networ	k	
Basics Security	IP addresses	Tags	Review + create
Basics			
Subscription		Azure	for Students
Resource Group		Examc	loud
Name		Vn1	
Region		France	Central
Security			
Azure Bastion		Disable	ed
Azure Firewall		Disable	ed
Azure DDoS Network P	Protection	Disable	ed
IP addresses			
Address space		192.16	8.23.0/24 (256 addresses)
Subnet		svn1 (1	92.168.23.0/24) (256 addresses)
Tags			
Previous	Next	Create	

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Home > Vn1-1708080351145 Deployment \screw playment	Overview &	7 🞍 Download 🕐 Refresh			Deployment succeede X Deployment 'Vn1-1700800351145' to resource group 'xamcloud' was succesful Go to resource Pin to dashboard
 ♣ Overview ♀ Inputs ♀ Outputs ► Template 	Deployment is in provide the second state of the second state	Dgress 351145 St. dents Co	art time : 16/02/2024, 11:45: orrelation ID : c7e1f820-2e99-491	54 12-9a1b-d91a3ba94fde	Microsoft Defender for Cloud Secure your apps and infrastructure Go to Microsoft Defender for Cloud >
	Resource	Туре	Status	Operation details	Start learning today >
	 Vn1 Give feedback <i>R</i>² Tell us about your experience with de 	 ♦ Virtual network 	Created	Operation details	work with an expert Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support. Find an Azure expert >

Vous recevrez un avis de déploiement terminé comme ci-dessous

Et Votre réseau virtuel est désormais prêt à être utilisé.

3. Définissez la plage d'adresses IP 192.168.24.0/24 pour Vn2 ainsi au'un sous-réseau Svn2 prenant l'entièreté de la plage d'adresse de Vn2.

Répétez les étapes pour créer vn2 avec la plage d'adresses IP 192.168.24.0/24 et le sous-réseau svn2.

asics Security IP address	ses Tags Review + create	
Learn more. 🗗		
Proiect details		
Select the subscription to manage	e deployed resources and costs. Use resource groups like folde	rs to organize and manage al
/our resources.		
Subscription *	Azure for Students	~
Resource group *	Examcloud	`
	Create new	
nstance details		
nstance details	Vn2	
I nstance details Virtual network name * Region * ①	Vn2 (Europe) France Central	
I nstance details Virtual network name * Region * ()	Vn2 (Europe) France Central Deploy to an edge zone	
Instance details Virtual network name * Region * ①	Vn2 (Europe) France Central Deploy to an edge zone	

ome > Examcloud > Marketplace > Virtual network >	(G+/)	المالية 🖓 🕸 🖓 المالية	in NCI.FR)
	Add a subnet		>
reate virtual network			
	Select an address space and configue select services later. Learn more of	re your subnet. You can customize a default subnet or select from subnet templates if you plan to) add
sics Security IP addresses Tags Review + create	6 h - t	Defect	
	Subnet purpose ()	Default	
befine the address space of your virtual network with one or more IPv4 or IPv6 address ranges. Create sub irtual network address space into smaller ranges for use by your applications. When you deploy resource	Name * 🕕	svn2	
ssigns the resource an IP address from the subnet. Learn more 🖸	IPv4		
Add IPv4 address space – I $^{\checkmark}$	Include an IPv4 address space		
A 1031/024034	IPv4 address range * ()	192.168.24.0/24	~
192.106.24.0/24	Starting address * ①	192.168.24.0	
192.168.24.0 - 192.168.24.255 256 addresses	Size ()	(24.(256.addrassas)	
+ Add a subnet	Sub-staddens man O	/27 (230 dudiesses)	
	Subnet address range ()	192.108.24.0 - 192.108.24.255	
Subnets IP address range Size NAT gatewa	IPv6		
	Include an IPv6 address space	This virtual network has no IPv6 address ranges.	
① A NAT gateway is recommended for outbound internet access from subnets. Edit the subnet to add a NAT gateway. Learn more of	Private subnet PREVIEW Private subnets enhance security by the internet, it is necessary to explici for virtual machines in the subnet.	not providing default outbound access. To enable outbound connectivity for virtual machines to i thy grant outbound access. A NAT gateway is the recommended way to provide outbound connec earn more of	access
	Enable private cubnet (no default	_	
Previous Next Review + create	Add Cancel		
Define the address space of your virtual network with one or more virtual network address space into smaller ranges for use by your a	IPv4 or IPv6 address range	es. Create subnets to segment the	
Add IPv4 address space I V		pioy resources into a subnet, Azure	
Add IPv4 address space I ~ 192.168.24.0/24		 Delete address space 	
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Add IPv4 address space I \colored line in the subnet. Learn more Colored line in the subnet line in the subne	~	Delete address space	
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Add IPv4 address space I Add IPv4 address space I 192.168.24.0/24 /24 192.168.24.0/24 /24 192.168.24.0/24 /24 192.168.24.0 192.168.24.255 256 addresses + Add a subnet IP address range svn2 192.168.24.0 - 192.168.24.255	Size i /24 (256 addresses)	Delete address space NAT gateway -	

Home > Examcloud >	Marketplace > Vir	tual network >					
Create virtual	Create virtual network						
Basics Security IF	P addresses Tag	gs Review + create					
View automation template	е						
Basics							
Subscription	Az	ure for Students					
Resource Group	Ex	amcloud					
Name	Vr	2					
Region	Fra	ance Central					
Security							
Azure Bastion	Di	sabled					
Azure Firewall	Di	sabled					
Azure DDoS Network Prot	tection Di	sabled					
IP addresses							
Address space	19	2.168.24.0/24 (256 addresses)					
Subnet	SV	n2 (192.168.24.0/24) (256 addresses)					
Previous	lext Creat	e					



4. Assurez-Vous que les réseaux virtuels sont associés au groupe de Ressources crée précédemment.

Une fois les étapes terminées, votre réseau virtuel sera associé au groupe de ressources **Examcloud** dans Azure.

Home >				
(i) Examcloud ☆ ☆ … Resource group				×
✓ Search «	+ Create 🛞 Manage view 🗸 📋 Delete resource group 🖒 Refresh 🞍 Export to CSV	😤 Open query 🙆 Assign ta	ags \rightarrow Move \checkmark 📋 Delete \downarrow Export templ	ate …
() Overview	✓ Essentials			JSON View
Activity log				
Access control (IAM)	Resources Recommendations			
🇳 Tags	Filter for any field			
🛧 Resource visualizer				
🗲 Events	Showing 1 to 2 of 2 records. Show hidden types U		No grouping V == List view	~
Settings	Name \uparrow_{\downarrow}	Туре ↑↓	Location \uparrow_{\downarrow}	
Deployments	🗌 🖘 Vn1	Virtual network	France Central	
Security	□	Virtual network	France Central	
Deployment stacks				

Déploiement de machines virtuelles

1. Creez une machine virtuelle ubuntu 22.04 dans chaque sous-reseau (2 machines virtuelles au total).

2. Configurez les paramètres des machines virtuelles, tels que les noms d'hotes (Vm1 Et Vm2), l'administrateur, Et le mot de passe.

3. Configurer une connexion ssh par clef publique/privee pour permettre l'acces a distance aux deux machines virtuelles.

4. Ouvrez le port ssh dans les groupes de securite reseau pour permettre l'acces aux machines virtuelles.



Accédez à « Machines virtuelles » et cliquez sur « Ajouter » pour créer une nouvelle machine virtuelle.

Pour chaque machine virtuelle, configurez les paramètres suivants : Nom d'hôte: Machine virtuelle 1: vm1

Home > Create a virtual machine 1 This subscription may not be eligible to deploy VMs of certain sizes in certain regions. Project details your resources.
Subscription * O Azure for Students

Resource group * O Examcloud

Groate new
 Instance details

 Virtual machine name * ○

 Region • ○

 (Europe) France Central

 Availability cone

 Availability zone * ○

 Zones 1

 ✓

 You can now select multiple zones. Selecting multiple zones will create one VM per zone. Learn more cf

Choisissez Ubuntu Server 22.04 LTS comme image.

per zone. Learn more d'

	per zone. com more e	
Security type ①	Trusted launch virtual machines Configure security features	/
Image * 🛈	Ubuntu Server 20.04 LTS - x64 Gen2 See all images Configure VM generation	/
VM architecture ①	 Arm64 x64 	
Run with Azure Spot discount ①		
Size * 🕕	Standard_D4s_v3 - 4 vcpus, 16 GiB memory (US\$163.52/month) N See all sizes N	/
Enable Hibernation (preview) 🕕	To enable Hibernation, you must register your subscription. Learn more	
Administrator account Authentication type ①	 SSH public key Password 	
	Azure now automatically generates an SSH key pair for you and allows you to	

Administrateur : Utilisez un nom d'utilisateu	Administrateur :	Utilisez u	n nom	d'utilisateu
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Administrator account				
Authentication type ①	SSH public key Password			
	Azure now automatically generates an SSH key pair for you and allows you to store it for future use. It is a fast, simple, and secure way to connect to your virtual machine.			
Username * 🛈	swathi	~		
SSH public key source	Generate new key pair	\sim		
Key pair name *	Vm1_key	~		
Inbound port rules				
Select which virtual machine network ports network access on the Networking tab.	are accessible from the public internet. You can specify more limited or granular			
Public inbound ports * 🕕	O None			
	Allow selected ports			
Select inbound ports *	SSH (22)	\sim		

Générez une paire de clés SSH publique/privée.

Configurer le disque : laissez les options par défaut et continuez.

Configurer le réseau :

when creating a virtual machine, a ne	etwork interface will be created for you.	
/irtual network * 🕕	Vn1	```
	Create new	
Subnet * 🕕	svn1 (192.168.23.0/24)	
	Manage subnet configuration	
Public IP ①	(new) Vm1-ip	\
-	Create new	
NIC network security aroup ①	O None	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Basic	
	O Advanced	
Public inbound ports * 🕕	O None	
	Allow selected ports	
Select inbound ports *	HTTP (80), HTTPS (443), SSH (22), RDP (3389)	
	▲ This will allow all IP addresses to access your virtual machine. T recommended for testing. Use the Advanced controls in the Netwo create rules to limit inbound traffic to known IP addresses.	his is only rking tab to

Choisissez Vn1 un réseau virtuel et sélectionnez les ports entrants (SSH - 22).

Configuration de la gestion:

Laissez les options par défaut et continuez.

Home >

Create a virtual machine



Azure AD login now uses SSH certificate-based authentication. You will need to use an SSH client that supports OpenSSH certificates. You can use Azure CLL or Cloud Shell from the Azure Portal Learn more 🖻

Configuration monitoring et avancée : laissez par défaut.

Home >							
Creat	e a vi	rtual mac	hine 💮				
Basics	Disks	Networking	Management	Monitoring	Advanced	Tags	Review + create
Add add	itional cor	figuration, agent	s, scripts or applica	tions via virtual r	nachine extensi	ons or clo	oud-init.
Extensio	ons						
Extension	ns provide	post-deploymen	t configuration and	l automation.			
Extension	ns 🕕		Select an e	xtension to insta	II		
VM app	lications						
VM appli the appli your VM	cations co cation file after crea	ontain application s, an install and u te. Learn more 🗹	files that are secur ninstall script are ir	ely and reliably o ncluded in the ap	lownloaded on plication. You c	your VM an easily	after deployment. In addition to add or remove applications on
Select a	/M applic	ation to install					
Custom	data and	l cloud init					
Pass a clo saved on	oud-init so the VM ir	ript, configuration n a known locatio	n file, or other data n. <mark>Learn more abo</mark> u	into the virtual i ut custom data fe	machine while i or VMs 🗹	t is being	g provisioned . The data will be
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Configuration des étiquettes : laissez par défaut.

lome >							
Creat	e a vi	rtual mad	chine …				
Basics	Disks	Networking	Management	Monitoring	Advanced	Tags	Review + create
Tags are	name/valu	ue pairs that enab	ole you to categoriz	e resources and	view consolidate	ed billing	by applying the same tag to
multiple	resources	and resource gro	oups. Learn more al	oout tags 🗹			
Note tha	it if you cre	eate tags and the	n change resource	settings on othe	r tabs, your tags	will be a	utomatically updated.
Name	Û		Value (i)			Resource	2
Name	<u> </u>		value O				-

Passez en revue les paramètres et cliquez sur "Créer".

Home > Create a virtual machine Validation passed Basics Disks Networking Management Monitoring Advanced Tags Review + create f Cost given below is an estimate and not the final price. Please use Pricing calculator of for all your pricing needs. Price 1 X Standard D4s v3 Subscription credits apply () by Microsoft 0.2240 USD/hr Terms of use | Privacy policy Pricing for other VM sizes TERMS By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the Azure Marketplace Terms for additional details. Swathi MOUROUGUESSIN Name sin@sundavinsi_adu.fi Droforrad a mail addros < Previous Next > Download a template for automation Create

Après la création, Azure fournira une paire de clés SSH. Téléchargez la clé privée et gardez-la

Home >

Create a virtual machine

Validation passed		
Auto-shutdown	Off	
Backup	Disabled	
Enable hotpatch	Off	
Patch orchestration options	Image Default	
Monitoring		
Alerts	Off	Generate new key pair
Boot diagnostics	On	
Enable OS guest diagnostics	Off	An SSH key pair contains both a public key and a
Enable application health monitoring	Off	private key. Azure doesn't store the private key . After the SSH key resource is created, you won't be able to download the private key again. Learn more of
Advanced		
Extensions	None	Download private key and create resource
VM applications	None	Return to create a virtual machine
Cloud init	No	
User data	No	
Disk controller type	SCSI	
Proximity placement group	None	
Capacity reservation group	None	



Vous recevrez un avis de déploiement terminé comme ci-dessous

Répétez les étapes pour créer Vm2 comme ci-dessous

Home > Examcloud > Marketplace > Virtual machine >

Create a virtual machine

1 This subscription may not be eligible to deploy VMs of certain sizes in certain regions.

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * 🕕	Azure for Students	\sim
Resource group * 🛈	Examcloud	\checkmark
	Create new	
Instance details		
Virtual machine name * 🛈	Vm2	\checkmark
Region * 🛈	(Europe) France Central	\checkmark
	A	
	Availability zone	~
Availability zone * 🛈	Zones 1	\sim
	You can now select multiple zones. Selecting multip per zone. Learn more 🖄	le zones will create one VM
Convitution (Trusted Jourse without machines	

create a virtual mach	line
Image * 🕕	Ubuntu Server 22.04 LTS - x64 Gen2 See all images Configure VM generation
VM architecture ①	Arm64
Due with Arms Cost discount O	• x64
Size * ()	Standard_E2s_v3 - 2 vcpus, 16 GiB memory (US\$113.88/month)
Enable Hibernation (previous)	See all sizes
Enable Hibernation (preview)	To enable Hibernation, you must register your subscription. Learn more of
Administrator account	
Authentication type ①	SSH public key
	Azure now automatically generates an SSH key pair for you and allows you to
	store it for future use. It is a fast, simple, and secure way to connect to your virtual machine.
Username * ①	azureuser
	U Password
	Azure now automatically generates an SSH key pair for you and allows you to store it for future use. It is a fast, simple, and secure way to connect to your virtual machine.
Username * 🛈	azureuser 🗸
SSH public key source	Generate new key pair
Key pair name *	Vm2_key 🗸
Inhound port rules	
Select which virtual machine netwo	ork ports are accessible from the public internet. You can specify more limited or granular
Rublic inbound ports *) tab.
	Allow selected ports
Select inbound ports *	SSH (22)
	All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM > Networking page.
Review + create	< Previous Next : Disks >
me > Examcloud > Marketplac	:e > Virtual machine >
me > Examcloud > Marketplac reate a virtual mac	te > Virtual machine >
me > Examcloud > Marketplac	e > Virtual machine > :hine …
me > Examcloud > Marketplac reate a virtual mac usics Disks Networking	ce > Virtual machine > :hine Management Monitoring Advanced Tags Review + create
me > Examcloud > Marketplac reate a virtual mac usics Disks Networking ure VMs have one operating syste	te > Virtual machine > thine Management Monitoring Advanced Tags Review + create m disk and a temporary disk for short-term storage. You can attach additional data disks.
me > Examcloud > Marketplac reate a virtual mac usics Disks Networking ure VMs have one operating syste e size of the VM determines the ty VI disk encryption	te > Virtual machine > thine Management Monitoring Advanced Tags Review + create m disk and a temporary disk for short-term storage. You can attach additional data disks. rpe of storage you can use and the number of data disks allowed. Learn more C
me > Examcloud > Marketplac reate a virtual mac asics Disks Networking ture VMs have one operating syste te size of the VM determines the ty M disk encryption ture disk storage encryption autom	te > Virtual machine > thine Management Monitoring Advanced Tags Review + create and disk and a temporary disk for short-term storage. You can attach additional data disks. A pe of storage you can use and the number of data disks allowed. Learn more to hatically encrypts your data stored on Azure managed disks (OS and data disks) at rest by
me > Examcloud > Marketplac reate a virtual mac usics Disks Networking ture VMs have one operating syste te size of the VM determines the ty M disk encryption ure disk storage encryption autom radut when persisting it to the clou	ce > Virtual machine > chine Management Monitoring Advanced Tags Review + create rm disk and a temporary disk for short-term storage. You can attach additional data disks. rpe of storage you can use and the number of data disks allowed. Learn more C ² natically encrypts your data stored on Azure managed disks (OS and data disks) at rest by id.
me > Examcloud > Marketplac reate a virtual mac usics Disks Networking ure VMs have one operating syste e size of the VM determines the ty VI disk encryption ure disk storage encryption autom fault when persisting it to the clou cryption at host ①	Wirtual machine > Schine Management Monitoring Advanced Tags Review + create m disk and a temporary disk for short-term storage. You can attach additional data disks. <i>ype</i> of storage you can use and the number of data disks allowed. Learn more C ^o natically encrypts your data stored on Azure managed disks (OS and data disks) at rest by id. f Encryption at host is not registered for the selected subscription. Learn more about enabling this feature C ^o
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Backup	Disabled
Enable hotpatch	Off
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Monitoring	
Alerts	Off
Boot diagnostics	On
Enable OS guest diagnostics	Off
Enable application health monitoring	Off
Advanced	
Extensions	None
VM applications	None
Cloud init	No
User data	No
Disk controller type	SCSI
Proximity placement group	None
Capacity reservation group	None



Tentative de communication entre les machines virtuelles

1. Connectez-vous aux machines virtuelles via ssh.

VM1

Test de Connexion SSH :

Utilisez la commande depuis le système hôte CMD windows 10.

```
C:\Windows\system32>ssh -i "D:\user\Downloads\Vm1_key.pem" swathi@20.199.87.56
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.0-1054-azure x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/pro
 System information as of Fri Feb 16 11:42:54 UTC 2024
 System load: 0.08
                                                         128
                                  Processes:
 Usage of /: 5.2% of 28.89GB Users logged in: 0
 Memory usage: 2%
                                  IPv4 address for eth0: 192.168.23.4
 Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo root" for details.
wathi@Vm1:~$
```

VM1

C:\Windows\system32>ssh -i "D:\user\Downloads\Vm2_key.pem" azureuser@20.19.81.198 Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 6.2.0-1019-azure x86_64) * Documentation: https://help.ubuntu.com * Management: https://landscape.canonical.com https://ubuntu.com/pro * Support: System information as of Fri Feb 16 11:48:31 UTC 2024 System load: 0.0 Processes: 122 Usage of /: 5.0% of 28.89GB Users logged in: 0 Memory usage: 2% IPv4 address for eth0: 192.168.24.4 Swap usage: 0% Expanded Security Maintenance for Applications is not enabled. 0 updates can be applied immediately. Enable ESM Apps to receive additional future security updates. See https://ubuntu.com/esm or run: sudo pro status The list of available updates is more than a week old. To check for new updates run: sudo apt update The programs included with the Ubuntu system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright. Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law. To run a command as administrator (user "root"), use "sudo <command>". See "man sudo_root" for details. azureuser@Vm2:~\$

2. Assurez-vous que l'utilitaire « telnet » est installe sur la vm1

swathi@Vm1:~\$ sudo apt install telnet Reading package lists... Done Building dependency tree Reading state information... Done telnet is already the newest version (0.17-41.2build1). telnet set to manually installed. 0 upgraded, 0 newly installed, 0 to remove and 10 not upgraded.

Et « netcat » est installe sur la vm2.

euser@Vm2:~\$ sudo apt install netcat Reading package lists... Done Building dependency tree... Done Reading state information... Done The following NEW packages will be installed: netcat 0 upgraded, 1 newly installed, 0 to remove and 17 not upgraded. Need to get 2044 B of archives. After this operation, 17.4 kB of additional disk space will be used. Get:1 http://azure.archive.ubuntu.com/ubuntu jammy/universe amd64 netcat all 1.218-4ubuntu1 [2044 B] Fetched 2044 B in 0s (52.1 kB/s) Selecting previously unselected package netcat. (Reading database ... 61596 files and directories currently installed.) Preparing to unpack .../netcat_1.218-4ubuntu1_all.deb ... Unpacking netcat (1.218-4ubuntu1) ... Setting up netcat (1.218-4ubuntu1) ... Scanning processes... Scanning linux images... Running kernel seems to be up-to-date. No services need to be restarted. No containers need to be restarted. No user sessions are running outdated binaries. No VM guests are running outdated hypervisor (qemu) binaries on this host.

3. Lancez netcat « en ecoute » sur le port 24517 dans la vm2 avec la commande suivante : netcat -l 24517



4. Essayez d'envoyer un message via telnet depuis la vm1 vers la vm2 avec la commande suivante : telnet 24517

wathi@Vm1:~\$ telnet 20.19.81.198 24517	
rying 20.19.81.198	
celnet: Unable to connect to remote host: Connection timed ou	t

la communication ne fonctionnera pas.

Configuration des règles de sécurité pour autoriser la communication entre les VMs

1. Mettez a jour les regles de securite reseau sur chaque machine virtuelle pour autoriser les communications depuis la vm1 vers le port 24517 de la vm2 (et uniquement depuis la vm1).

Accédez aux groupes de sécurité réseau associés à vos machines virtuelles, créez une **règle outbound sur Vm1 et inbound** sur Vm2 autorisant le trafic sortant de vm1, dirigé vers le port 24517 de vm2, et n'autorisez que ce trafic spécifique comme ci dissous

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2. Reessayez de faire communiquer les 2 machines via telnet et netcat.

Une configuration réussie, maintenant si vous attendez de recevoir une réponse de l'écouteur netcat sur vm2, vous devez taper votre message. Après avoir envoyé le message, vous pouvez vérifier sur vm2 si le message a été reçu.



azureuser@Vm2:~\$ netcat -l 24517 coucou SdV