# 在Azure云服务上安装ISE

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 下一步操作

 安装后任务

 在Azure云上恢复和重置密码

 1.通过串行控制台重置Cisco ISE GUI密码

 2.为SSH访问创建新的公钥对

# 简介

本文档介绍如何使用Azure虚拟机安装Cisco ISE IOS实例。思科ISE IOS可用于Azure云服务。

# 先决条件

• 订阅和资源组。

导航到所有服务>订用。确保存在具有与Microsoft达成企业协议的活动订阅的Azure帐户。使用 Microsoft PowerShell Azure模块CLI执行命令以保留空间:(请参阅<<u>如何安装Azure PowerShell</u> >以 了解如何安装Power Shell和相关包)。

Connect-AzAccount -TenantID <Tenant-ID> Register-AzResourceProvider -ProviderNamespace Microsoft.AVS | Register-AzResourceProvider -ProviderNamespace Microsoft.Batch



注意:用实际租户ID替换租户ID

有关更多详细信息,请完成为Azure VMware解决方案预申请的<u>atRequest host quota</u>。 在正确订阅后创建资源组,导航到所有服务>资源组。单击 Add。输入资源组名称。

#### Home > Resource groups >

#### Create a resource group

Basics Tags Review + create

Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. Learn more  $\square$ 

Project details		
Subscription * 🕕		$\sim$
Resource group * ①	recourse-group-name	~
Resource details		
Region * 🕕	(US) East US	$\sim$

• 虚拟网络和安全组。

0

需要Internet可达性的子网必须将路由表配置为使用下一跳作为Internet。请参阅公共子网和专用子 网示例。具有公共IP的PAN让离线源和在线源更新都工作,具有私有IP的PAN需要依赖离线源更新

Microsoft Asure	2.5	and measures, services, and door (S+3		10 Q 🖉 O	2 AP			
me 3 Wrbal networks 3								
reate virtual netwo	ork -		Home > SST-Vnet > PublicRou	teTable				
lacics <b>IP Addresses</b> Secur	ty Taga Anview - create specified as one or more address prefere	s in COM rotation (e.g. 192 148 14/046	PublicRouteTal Restricted	ble   Routes 🖈				
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112.42.0.016		×		24 Bearch routes				
			<ul> <li>Activity tog</li> </ul>	Name	1. Address prefix	↑↓ Next hop type	1 Next hop IP address	
Add Put address space O			Access control (AM)	DM2-1	10 YOUNG IN	Vitue network general		
The subnet's address range in CO rationA	Restation (e.g. 152, 568, 1.0; 24). It must be	contained by the address space of the virtual	Tags	DM/2-2	192.168.159.0/24	Virtual network gateway		
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+ Add submet (2) Remove and	Arrett.							_
Subnet name	Subrat address range	Nuk? getreinty	Settings	Local		Vot. of Automatic		
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	172.42.10.029							
	172.42.49.0.00							
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			<ul> <li>Tags</li> </ul>	DA(7.3	182 168 118-0-04	Web-al network colorate		
				1799-1 C	1947 1948 1949 1949	second decision decision		
			A					

• 创建SSH密钥对。

a.使用Azure Web Portal主页上的搜索栏并搜索SSH密钥。

Microsoft Azure			E	8	¢	0	
Use TheSearch Bar And Search For SSH		All       Services (5)       Marketplace (1)       Documentation (99+)       Resources (0)       Resource Groups (0)         Azure Active Directory (0)       Services         Services       SSH keys       CnA makers         BitLocker Keys       & Azure Key Vault Managed HSMs	<b>≯</b>	es			
Resour	ces	T Key vaults					
Recent	Favorite	Marketplace					

## b.在下一个窗口中,单击创建。

Home >			
SSH keys 🖈 Click Create			
osecurity			
+ Create 😳 Manage view 🗸 🔾 Refresh 👱 Export to CSV 😽 Open	query 🛛 🛇 Assign tags		
Filter for any field Subscription equals all Resource group equals	all $ imes$ Location equals all $ imes$ $^{+}\!_{\nabla}$ Add filter		
Showing 0 to 0 of 0 records.			
Name 🕆	Type ↑↓	Resource group 1+	Location 14
		<b>A</b>	
	Or Use This Option No S	SH keys to display	
	SSH is an encrypted connection protocol that	allows secure sign-ins over unsecured connectio	ns. SSH keys allow
	secure connection 4	Create SSH key	
	L	Credite Soft Rey	

## c.从下一个窗口中选择资源组和密钥名称。然后单击Review + Create。

tome > SSH keys > Create an SSH key …										
Basics Tags Review + create Creating an SSH key resource allows you to Learn more	o manage and use public keys stored in Azure with Linux virtual machines.									
Select the subscription to manage deploye your resources.	Project details Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources. Select Resource group you created from D Drop Down List									
Subscription * ③ Resource group * ④	cx-tac-rch-aaa-azure     V       (New) resource-group-name     V       Create new									
Instance details		Create Key Pair Name								
Region * 💿	US) East US									
Key pair name *	key-pair-name									
SSH public key source	Generate new key pair									
Click Review + Create										
Review + create < Prev	ous Next : Tags >									

## d.在下一个窗口中,单击Create和Download Private Key。

Microsoft Azure	,P Search resources, services, and docs (G+/)
Home > SSH keys >	
Create an SSH key	
Validation passed	
Basics Tags Review + create	
Basics	
Subscription	
Resource group	
Region Key pair pame	
Net for mine	
	Generate new key pair
	An SSH key pair contains both a public key and a 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 D'
	Download private key and create resource
	Return to create an SSH key resource
Click Create	
Create Orevious Next > Download a to	implate for automation

使用的组件

本文档的内容基于这些软件和云服务。

- 思科ISE版本3.2。
- Microsoft Azure云服务

本文档中的信息是在特定实验环境中的设备上创建的。用于本文的所有设备始于初始(默认)配置 。如果您的网络处于活动状态,请确保您了解所有命令的潜在影响。

### 思科ISE支持的Azure VM大小

Azure VM Sizes	vCPU	RAM (in GB)
Standard_D4s_v4	4	16
(This instance supports the Cisco ISE evaluation use case. 100 concurrent active endpoints are supported.)		
Standard_D8s_v4	8	32
Standard_F16s_v2	16	32
Standard_F32s_v2	32	64
Standard_D16s_v4	16	64
Standard_D32s_v4	32	128
Standard_D64s_v4	64	256

• Fsv2系列Azure VM大小经过计算优化,最适合用作计算密集型任务和应用的PSN。

• Dsv4系列是通用的Azure VM大小,最适合用作PAN或MnT节点或两者,用于数据处理任务和数据库操作。

如果将通用实例用作PSN,则性能数值低于作为PSN的计算优化实例的性能。Standard\_D8s\_v4 VM大小只能用作额外的小型PSN。



注意:请勿克隆现有Azure云映像以创建思科ISE实例。这样做会在创建的ISE机器中导致随 机和意外故障。

Microsoft Azure云服务中Cisco ISE的限制

 如果使用Azure虚拟机创建思科ISE,默认情况下,Microsoft Azure通过DHCP服务器将私有 IP地址分配给VM。在Microsoft Azure上创建思科ISE部署之前,必须使用Microsoft Azure分配 的IP地址更新转发和逆向DNS条目。

或者,在安装Cisco ISE后,通过更新Microsoft Azure中的网络接口对象将静态IP地址分配到 VM: 1. 停止虚拟机。

2. 在VM的"专用IP地址设置"区域的"分配"区域中,点击静态。

3. 重新启动虚拟机。

4. 在思科ISE串行控制台中,将IP地址分配为Gi0。

5. 重新启动Cisco ISE应用服务器。

- 只有两个NIC支持双NIC -千兆以太网0和千兆以太网1。要在您的思科ISE实例中配置辅助 NIC,您必须首先在Azure中创建网络接口对象,关闭您的思科ISE实例,然后将此网络接口对 象附加到思科ISE。在Azure上安装并启动Cisco ISE后,使用Cisco ISE CLI手动将网络接口对 象的IP地址配置为辅助NIC。
- 思科ISE升级工作流程在Microsoft Azure上的思科ISE中不可用。仅支持全新安装。但是,您可以执行配置数据的备份和恢复。
- 公共云仅支持第3层功能。Microsoft Azure上的Cisco ISE节点不支持依赖第2层功能的Cisco ISE功能。例如,通过Cisco ISE CLI使用DHCP SPAN分析器探针和CDP协议功能是当前不支 持的功能。
- 当您执行配置数据的恢复和备份功能时,备份操作完成后,首先通过CLI重新启动Cisco ISE。
   然后,从Cisco ISE GUI启动恢复操作。
- Azure中不支持使用基于密码的身份验证对思科ISE CLI进行SSH访问。您只能通过密钥对访问思科ISE CLI,并且必须安全地存储此密钥对。如果使用私钥(或PEM)文件并且丢失文件,您将无法访问Cisco ISE CLI。

不支持使用基于密码的身份验证方法访问Cisco ISE CLI的任何集成,例如Cisco DNA Center 2.1.2版及更早版本。

 Azure上的Cisco ISE IOS部署通常利用动态多点虚拟专用网络(DMVPN)和软件定义的广域网 (SD-WAN)等VPN解决方案,其中IPSec隧道开销可能导致MTU和分段问题。在这种情况下 ,思科ISE IOS不会收到完整的RADIUS数据包,并且身份验证失败不会触发故障错误日志。

一种可能的解决方法是寻求Microsoft技术支持以探索Azure中允许无序碎片传递到目标而不是 被丢弃的任何解决方案。

• CLI管理员用户必须是"iseadmin"。

## 配置

连接到Azure云的ISE部署示例



## 配置

• 第(1)步:转到<u>Azure门户</u>并登录你的Microsoft Azure帐户。

=	Microsoft Azure			ces, servio	ces, and docs (G+/)						D	8	Φ	۲	0 R
		Azure services													
		+	4	()	× 4	•	۲		SQL	8	$\rightarrow$				
		Create a resource	SSH keys R	esource groups	Quickstart Vir Center mac	rtual A chines	App Services	Storage accounts	SQL database	es Azure Cosmos D8	More service	•			
		Resources													
		Recent Favori	te												
		Name				Туре				Last Viewed					
					No resour	ces have beer	n viewed recen	thy							
					L	View all reso	ources								
		Navigate													
		📍 Subscription	15	()	Resource groups		All resources		26	Dashboard					
		Tools													
		Microsoft L Learn Azure training fro	earn () <sup>*</sup> with free online m Microsoft	3	Azure Monitor Monitor your apps and infrastructure	C	Microsoft De Secure your i infrastructure	fender for Cloud apps and	\$	Cost Management Analyze and optimiz cloud spend for free	e your				

• 第(2)步:使用窗口顶部的搜索字段搜索市场。

Microsoft Azure	P marketplace	×	2	9 Q	۲	0	~
Azure services	All Services (8) Marketplace (31) Documentation Resource Groups (0)	on (99+) Azure Active Directory (6) Resources (0)					
Create a resource	Marketplace     Budgets	Cost exports	ces				
Resources	Cost alerts	Cost Management + Billing					
Recent Favorite	\$1, Cost analysis	Managed applications center					
Name	Marketplace	See					
inanie -	Striim VM Subscription	SaaS Accelerator					
	Contoso MPPO SaaS - Seat 1	Fimple Marketplace Offer					
	G WeTransact	Contoso MPPO SaaS - Site 1					
	Tackle Cloud GTM Platform	Labra Cloud Commerce Management Platform					

• 第(3)步:使用搜索Marketplace搜索字段搜索思科身份服务引擎(ISE)。

= Microsoft Azure	P Searc	resources, services, and docs	(G+/)			E.	8	٥	0	•	R
Home > Marketplace											
Get Started Service Providers	Cisco identity service engine	× Pricing : All ×	Operating System : All $\times$	Publisher Type : All X	Product Type : All	Publisher name : All	×				
Management	cisco identity services engine										
Private Marketplace Private Offer Management	Cisco Identity Services Engine (ISE) Recommended for you ③										

• 第(4)步:点击虚拟机。

=	Microsoft Azure		₽ Search resources, set	rvices, and docs (G+/)				2	8	Φ	۲	0	5
Hom	e >												
Ma	rketplace												
Get S	tarted	Cisco Identity Services Engine (IS	6 × 1	Pricing : All X Operating System : All X	Publisher Type : All ×	Product Type : All ×	Publisher name	AII )	K				
Servic	e Providers												
Man	Azure benefit eligible only ③ Azure services only  Azure services only												
		Showing 1 to 3 of 3 results for 'Cisco	Identity Services angine (ISE)'. Clear s	earch									
Privat	e Marketplace	Vou have 1 results customized for your private plans. View private plans											
Privat	e Offer Management												
My N	Aarketplace	-de-de- cisco	-dudu ence	cisco									
		Cisco Identity Services	Cisco Identity Services	Cisco ISE									
Favori	tes	Engine (ISE)	Engine (ISE)	Minnach Section Minnach Co.									
Recen	tly created	Virtual Machine	Azure Application	Azure Application									
Privat	e plans	Cisco Identity Services Engine (ISE)	Cisco Identity Services Engine (ISE)	Streamline security policy									
Cates	pories			management, and reduce operating costs.									
Securi	ty (3)		Price varies	Price varies									
Netwo	orking (2)	Create 🗸 🗢 🗢	Create 🗸 🗢 🗢	Create 🗸 🗢									
Al + N	fachine Learning (0)												

• 第(5)步:在显示的新窗口中,单击创建。

	Microsoft Azure	∞ Search resources, services, and docs (G+/)									
Home	Home > Marketplace >										
Cisco Sy	to Identity Services Engine (ISE) 🛷 …										
abs	Cisco Identity Services Engine (ISE	♦ Add to Favorites									
cis	Cisco Systems, Inc.   Virtual Machine										
	Plan Cisco Identity Services Engine (ISE) B  Create	Start with a pre-set configuration									
Want to deploy programmatically? Get started											
Ove	view Plans + Pricing Usage Information + Support Ratings	+ Reviews									

- 第(6)步:在基础信息选项卡中:
- a.在项目详细信息区域,从订用和资源组下拉列表中选择所需的值。
- b.在实例详细信息区域,在虚拟机名称字段中输入值。
- c.从Image下拉列表中选择Cisco ISE映像。

d.从Size下拉列表中,选择要用于安装思科ISE的实例大小。选择思科ISE支持的实例,如

Cisco ISE支持的实例,在<u>Azure云上的Cisco ISE</u>部分。

- e.在Administrator account > Authentication type区域中,单击SSH Public Key单选按钮。
- f. 在用户名字段中输入iseadmin。
- g.从SSH Public Key Source下拉列表中,选择Use existing key stored in Azure。
- h.从Stored keys下拉列表中,选择作为此任务前提条件而创建的密钥对。
- j. 在Inbound port rules区域中,点击Allow selected ports单选按钮。
- k.在Licensing区域中,从Licensing type下拉列表中选择Other。



Resource group *	Resource Group You Created	~
	Create new	
Instance details		
Virtual machine name * 💿	ise-vm-name	~
Region * 🛈	(US) East US	$\sim$
Availability options	Availability zone	$\sim$
Availability zone * 💿	Zones 1	$\sim$
	You can now select multiple zones. Selecting multiple zones will create per zone. Learn more o?	e one VM
Security type ③	Standard	$\sim$
Image * 💿	Cisco Identity Services Engine (ISE) BYOL 3.2 - x64 Gen1	~
VM architecture	See al images   Configure VM generation	
/	• x64	
Click Here To Select ISE Image	x64     Arm64 is not supported with the selected image.	
Click Here To Select ISE Image	x64     Arm64 is not supported with the selected image.	
Click Here To Select ISE Image Run with Azure Spot discount ③ Size * ③	x64     Arm64 is not supported with the selected image.     Standard_D32s_v4 - 32 vcpus, 128 GiB memory (\$863.59/month)     See all sizes	~
Click Here To Select ISE Image Run with Azure Spot discount ③ Size * ③	<ul> <li>x64</li> <li>Arm64 is not supported with the selected image.</li> </ul> Standard_D32s_v4 - 32 vcpus, 128 GiB memory (\$863.59/month) See all sizes	~
Click Here To Select ISE Image Run with Azure Spot discount  Size  Administrator account Authentication type	<ul> <li>x64</li> <li>Arm64 is not supported with the selected image.</li> <li>Standard_D32s_v4 - 32 vcpus, 128 GiB memory (\$863.59/month)</li> <li>See all sizes</li> <li>SSH public key</li> </ul>	~



注意:对于磁盘类型,可从下拉列表中选择更多选项。您可以选择符合您需求的解决方案。对于生产和性能敏感型工作负载,推荐使用高级SSD。

• 第(9)步:在Network Interface区域中,从Virtual network、Subnet和Configure network security group下拉列表中,选择您创建的虚拟网络和子网。



注意:具有公共IP地址的子网接收在线和离线状态源更新,而具有专用IP地址的子网仅接收 离线状态源更新。 Home > Virtual machines >

								5	
sics	Disks	Networki	i <b>g</b> Ma	anagement	Monitorin	ig Advan	ced Tags	R	eview + create
efine ne bound arn mo	etwork cor and outbo pre 🖻	nnectivity for ound connect	your virtu ivity with	ual machine security gro	by configuring oup rules, or pla	network inte ace behind ar	rface card (NI n existing load	IC) sett I balan	tings You can control ports. ncing Virtual Network You created Or Cl Create New
etwork	k interfac	e							
hen cre	eating a vi	rtual machine	, a netwo	ork interface	will be created	l for you.			
rtual ne	etwork *	0		Create no	ew				×
ibnet *	0			Select	The Subnet	Your create	ed		
ıblic IP	0			Create ne	ew				
IC netw	vork securi	ty group 🕕		Non     Basi	e c anced				Select Security Group You Created Click Create New
onfigur	e network	security grou	ıp *	Create no	ew				
elete po eleted	ublic IP an ①	d NIC when	/M is						
able a	ccelerated	networking	0		ŕ	The selected i	mage does n	ot sup	port accelerated networking.
ad ba	lancing								
ou can	place this	virtual machi	ne in the	backend po	ol of an existin	g Azure load	balancing sol	ution.	Learn more 🖉
Reviev	v + create		< Pre	vious	Next : Mana	gement >			
。 第 Delete leleted	(10)步 public IF d ①	:点击 ? and NIC w	下一步 hen VM	⁊:管理 ⊨is 〔	<u>l</u> .				

• 第(11)步:在管理选项卡中,保留必填字段的默认值并点击下一步:高级。

■ Microsoft Azure		${\cal P}$ Search resources, services, and docs (G+/)						
Home > Virtual machines >								
Create a virtual machine								
"Click Next on This Page > Monitoring > Advanced"								
Basics Disks Networking Manage	ement Monitoring Advance	ed Tags Review + create						
Configure management options for your VM.								
Microsoft Defender for Cloud								
Microsoft Defender for Cloud provides unified workloads. Learn more 🖻	security management and advanced	I threat protection across hybrid cloud						
<ul> <li>Your subscription is protected by Microso</li> </ul>	ft Defender for Cloud basic plan.							
Identity								
Enable system assigned managed identity ①	]							
Azure AD								
Login with Azure AD 🕠	]							
A This image does not support Login with Az	zure AD.							
Auto-shutdown								
Enable auto-shutdown ①	]							

Home > Virtual machines >

## Create a virtual machine

Basics Disks Configure monito	Networking pring options for yo	Management our VM.	Monitoring	Advanced	Tags Review Premium S	v + create SD "Recommended Type for Production "
Alerts						
Enable recommen	nded alert rules 🕕					
Diagnostics						
Boot diagnostics	0	Enable	e with managed s	torage account	(recommended)	
		O Enable	e with custom sto	rage account		
		O Disabl	e			
Enable OS guest	diagnostics 🛈					

Review + create	< Previous	Next : Advanced >

• 第(12)步:在用户数据区域中,选中启用用户数据复选框。

在用户数据字段中,填写以下信息:

hostname=<Cisco ISE的主机名>

```
primarynameserver=<IPv4地址>
```

dnsdomain=<域名>

ntpserver=<IPv4地址或NTP服务器的FQDN>

timezone=<timezone>

password=<password>

ersapi=<yes/no>

openapi=<yes/no>

pxGrid=<是/否>

pxgrid\_cloud=<yes/no>



注意:对于通过用户数据条目配置的每个字段,必须使用正确的语法。输入时,您在"用户 数据"字段中输入的信息不会经过验证。如果使用错误的语法,当您启动映像时,思科ISE服 务不会出现。

有关必须通过User Data字段提交的配置,请参阅准则:

a.主机名:输入仅包含字母数字字符和连字符(-)的主机名。主机名的长度不能超过19个字符,并且 不能包含下划线(\_)。

b.主名称服务器:输入主名称服务器的IP地址。仅支持IPv4地址。

在此步骤中只能添加一个DNS服务器。您可以在安装后通过Cisco ISE CLI添加其他DNS服务器。

c. dnsdomain:输入DNS域的FQDN。条目可以包含ASCII字符、数字、连字符(-)和句点(.)。

d. ntpserver:输入必须用于同步的NTP服务器的IPv4地址或FQDN。

在此步骤中只能添加一个NTP服务器。您可以在安装后通过Cisco ISE CLI添加其他NTP服务器。使用有效且可访问的NTP服务器,因为ISE操作需要此服务器。

e.时区:输入时区,例如Etc/UTC。我们建议您将所有思科ISE节点设置为协调世界时(UTC)时区 ,特别是如果您的思科ISE节点安装在分布式部署中。此过程可确保来自部署中各个节点的报告和 日志的时间戳始终同步。

f.密码:为基于GUI的登录思科ISE配置密码。您输入的密码必须符合Cisco ISE密码策略。密码必须 包含6到25个字符,并至少包含一个数字、一个大写字母和一个小写字母。密码不能与用户名相同 ,或其反向(iseadmin或nimdaesi)、cisco或ocsic。允许的特殊字符为@~\*!,+=\_-。请参阅<u>Cisco</u> ISE管理员指南的"基本设置"一章中的"用户密码策略"一节了解您的版本。

g. ersapi:输入yes启用ERS,或输入no禁止ERS。

h. openapi:输入yes启用OpenAPI,或输入no禁止OpenAPI。

i. pxGrid:输入yes启用pxGrid,或输入no禁用pxGrid。

j. pxgrid\_cloud:输入yes启用pxGrid云,或输入no禁用pxGrid云。要启用pxGrid云,必须启用 pxGrid。如果禁用pxGrid,但启用pxGrid云,则在启动时不启用pxGrid云服务。



#### Performance (NVMe)

Enable capabilities to enhance the performance of your resources.

Higher remote disk storage performance with NVMe ①

The selected image and size are not supported for NVMe. <u>See supported VM images and sizes</u> and <u>sizes</u>

#### Host

Azure Dedicated Hosts allow you to provision and manage a physical server within our data centers that are dedicated to your Azure subscription. A dedicated host gives you assurance that only VMs from your subscription are on the host, flexibility to choose VMs from your subscription that will be provisioned on the host, and the control of platform maintenance at the level of the host. Learn more

Host group (i)	No host groups found	$\sim$	
----------------	----------------------	--------	--

#### **Capacity reservations**

Capacity reservations allow you to reserve capacity for your virtual machine needs. You get the same SLA as normal virtual machines with the security of reserving the capacity ahead of time. Learn more 3

C	N	-	
Review + create	< Previous	Next : Tags >	

用户数据部分

• 第(13)步:点击下一步:标记。

#### Performance (NVMe)

Enable capabilities to enhance the performance of your resources.

Higher remote disk storage performance with NVMe (i)	The selected image and size are not supported for NVMe. See supported VM images and sizes
Review + create < Prev	vious Next : Tags >

第(14)步:要创建允许您对资源进行分类的名称-值对,以及合并多个资源和资源组,请在名称和值字段中输入值。

۲

Home > Virtual machines >

### Create a virtual machine

Basics	Disks	Networking	Management	Monitoring	Advanced	Tags	Review + create	
Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. Learn more about tags 🕫								
Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.								
Name 🛈 Value 🛈 Resource								
	Tag	Name	:	Value Name		13 selecte	ed 🗸 🗸	

• 第(15)步:点击下一步:审核+创建。

Review + create	< Previous	Next : Review + create >

• 第(16)步:查看您目前提供的信息,然后点击创建。

显示Deployment is in progress窗口。创建并可以使用思科ISE实例大约需要30分钟。Cisco ISE VM实例显示在

"虚拟机"窗口(使用主搜索字段查找窗口)。

#### Home > Virtual machines >

#### Create a virtual machine

Preferred e-mail address				
Preferred e-mail address				
Defendation and the				
Preferred phone number				
Pasia				
Basics				
Subscription				
Kesource group				
Virtual machine name				
Region	Ausilability zone			
Availability options	Availability zone			
Availability zone	Standard			
Image	Cisco Identity Services For	ine (ISE) RVOL 3.2 - Gen1		
MA architecture	Cisco identity services Eng	ine (ise) BTOL 3.2 - Geni		
Cize	X04 Standard D16c v4 (16 urpu	is 64 GiB memory)		
Authentication tune	Standard D 105 v4 (10 vcpc	s, 64 Gib memory)		
Authentication type	isouror			
Ver pair pame	Iseuser			
Azure Spot	No			
Azure spor	110			
Dieke				
Create	<pre>&lt; Previous Next &gt; Do co-ise-virtual-cisco-ise_3</pre>	2-20230926145056   Overview	¢	
CreateVm-cisco.cisc Deployment Search «	🖹 Delete 🚫 Cancel ሰ Redeploy			
CreateVm-cisco.cisc Deployment Search « Overview	Delete 🛇 Cancel ሰ Redeploy	± Download () Refresh		
CreateVm-cisco.cisc Deployment Search « Overview Inputs	Delete      Cancel      Redeploy     Cancel      Deployment is in pro	Download O Refresh gress		
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下一步操作

由于Microsoft Azure默认设置,您创建的思科ISE VM仅配置为300 GB磁盘大小。Cisco ISE节点通 常需要超过300 GB的磁盘大小。当您首次从Microsoft Azure启动Cisco ISE时,您可以看到 Insufficient Virtual Memory警报。

在Cisco ISE VM创建完成后,请登录Cisco ISE管理门户验证Cisco ISE已设置。然后,在Microsoft

Azure门户中,在虚拟机窗口中执行并完成以下步骤以编辑磁盘大小:

### 1. 停止Cisco ISE实例。

Home >						
isedemo-cybersec	\$ \$ ···					
✓ Search «	💋 Connect 🕞 Start 🤇	🕻 Restar 🗌 Stop 🕅	Capture 📋 Delete	🕐 Refresh 🔋 Open in i	mobile 🔗 Feedback	📙 CLI / PS
Sverview						
Activity log						
B Access control (IAM)	Resource group (move) :				(	Operating system
	Status :	Running			1	Size
💎 Tags	Location :				1	Public IP address
× Diagnose and solve problems	Subscription (move) :					virtual network/subnet
Settings	Subscription ID :				t.	DNS name
2 Networking	Availability zone :	1			1	Health state
Ø Connect	Tags ( <u>edit</u> ) :					
a Disks						
📮 Size	Properties Monitori	ing Capabilities (7)	Recommendations	Tutorials		

## 2. 在左侧窗格中单击Disk,然后单击您用于思科ISE的磁盘。

Home > isedemo-cybersec						
Sisedemo-cybersec   Disks ★ ··· 20						
₽ Search «	🗟 Save 🗙 Discard 🖒 Refresh 🖉 🕲 Additio	onal settings 🛛 Reedback	/> Troubleshoot			
Overview	OS disk					
Activity log	≓ Swap OS disk					
Access control (IAM)	Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (	Encryption ③
🕈 Tags	isedemo-cybersec_OsDisk_1_d144bfa962e94fd6a24d3	Premium SSD LRS	300	2300	150	SSE with PMK
X Diagnose and some problems						
Settings	Data disks					
2 Networking	P Filter by name					
Ø Comect	Showing 0 of 0 attached data disks					
B Disks	+ Create and attach a new disk 🔗 Attach existing	g disks				
🐺 Size	LUN O Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (	Encryption ①
Microsoft Defender for Cloud						

## 3. 单击左侧窗格中的Size + performance。

Но	ome > Disks >							
8	Disk O	sDisk_1_d144b	fa962e94fd6	6a24d3a284	72c55fb 🖈	☆ …		
۶	Search «	+ Create VM + Cr	eate VM image version	+ Create snapsho	t 🗐 Delete 💍 Refr	resh 🛛 R Give feedback		
	Overview	∧ Essentials						
	Activity log	Resource group (move)	:				Disk size	: 300 GiB
32	Access control (IAM)	Disk state	: Reserved				Storage type	: Premium SSD LRS
	Tags	Location					Managed by	: isedemo-cybersec
4	Diagnosa and solve problems	Subscription (move)	:				Operating system	: Linux
~	biagnose and some problems	Subscription ID					Completion percent	: 100
Se	ttings	Time created	: 9/26/2023, 4:06:17 PM	A			Max shares	: 0
-	Configuration						Availability zone	:1
	Size + performance						Performance tier	: P20 - 2300 IOPS, 150 MB/s
÷	Encryption						Security type	: Standard
ф	Networking	Tags ( <u>edit</u> )						
4	Disk Export							
Ш	Properties	Show data for last:	(	1 hour 6 hours	12 hours 1 day	7 days		
	Locks							

### 4. 在自定义磁盘大小字段中,以GiB格式输入所需的磁盘大小。

Home >	_OsDisk_1_d144bfa96	52e94fd6a24d3a28472c55fb			
.09	sDisk_1_d144bfa962	e94fd6a24d3a2847	2c55fb   Size + perfe	ormance 🛪 …	
Disk					
P Search «	Storage type				
S Overview	Premium SSD (locally-redundant sto	orage) 🗸 🗸			
Activity log	Size	Disk tier	Provisioned IOPS	Provisioned throughput	Max Shares 🛈
Access control (IAM)	4 GiB	P1	120	25	3
🔷 Tags	8 GiB	P2	120	25	3
× Diagnose and solve problems	16 GiB	P3	120	25	3
Settings	32 GiB	P4	120	25	3
Configuration	64 GiB	P6	240	50	3
Size + performance	128 GiB	P10	500	100	3
% Encryption	256 GiB	P15	1100	125	3
<li>Networking</li>	512 GiB	P20	2300	150	3
Disk Export	1024 GiB	P30	5000	200	5
Properties	2048 GiB	P40	7500	250	5
Locks	4096 GiB	P50	7500	250	5
Manitarian	8192 GiB	P60	16000	500	10
Wonitoring	16384 GiB	P70	18000	750	10
Metrics	32767 GiB	P80	20000	900	10
Automation	Custom disk size (GiB) * 🛈				
🖧 Tasks (preview)	300				
Export template					
Help	Save Discard				

# 安装后任务

有关成功创建Cisco ISE实例后必须执行的安装后任务的信息,请参阅您的Cisco ISE版本的<u>Cisco</u> I<u>SE安装指南</u>中的"安装验证和安装后任务"一章。

# 在Azure云上恢复和重置密码

完成有助于重置或恢复您的Cisco ISE虚拟机密码的任务。选择您需要的任务,并执行详细步骤。

1. 通过串行控制台重置Cisco ISE GUI密码

- 第(1)步:登录到Azure云并选择包含思科ISE虚拟机的资源组。
- 第(2)步:从资源列表中,点击要重置密码的思科ISE实例。
- 第(3)步:在左侧菜单中,从支持+故障排除部分,单击串行控制台。

Home > virtual machines >		
Virtual machines « cxsecurity	Virtual machine	× …
+ Create $\lor$ $\rightleftarrows$ Switch to classic $\cdots$	P Search	« 🖉 Connect 🗁 Start 🤇 Restart 🔲 Stop 🔯 Capture 📋 Delete 🖒 Refresh 🔋 Ope
Filter for any field	Insights	
Name 1	Alerts	Resource group (move) :
•	na Metrics	Status : Running
	Diagnostic settings	Location : East US (Zone 1)
	🤗 Logs	Subscription (move) :
	Connection monitor (classic)	Subscription ID :
	Workbooks	Availability zone : 1
		Tags (edit) : Add tags
	Automation	
	🐴 Tasks (preview)	Properties Monitoring Capabilities (7) Recommendations Tutorials
	😨 Export template	
	Help	Virtual machine
Click Serial Console	Parourra hasith	Oneration system Linux (redbat 8.4)
	<ul> <li>Resource nearch</li> </ul>	Image publisher cisco
	Boot diagnostics	Image offer cisco-ise-virtual
	Reformance diagnostics	Image plan cisco-ise 3_2
	VM Inspector (Preview)	VM generation V1
	Reset password	VM architecture x64
	Redeploy + reapply	Agent status Ready
	Serial console	Agent version 2.10.0.3
	Connection troubleshoot	Host group None

• 第(4)步:如果在此处查看错误消息,则必须通过执行并完成以下步骤来启用引导诊断:

a.从左侧菜单中单击Boot diagnostics。

Home > Virtual machines >	
Virtual machines « cxsecurity	Virtual machine Boot diagnostics 🛪 ···· 2
+ Create $\lor~ early a real classic \cdots$	🔎 Search « 🕐 Refresh 🙆 Settings
Filter for any field Name ↑↓	<ul> <li>Insights</li> <li>Alerts</li> <li>Screenshot</li> <li>Serial log</li> <li>Metrics</li> <li>Updated: Wednesday, September 27, 2023, 4:11:12 AM UTC Download screenshot</li> </ul>
0	Image: Diagnostic settings   Image: Diagnos

b.单击Enable with custom storage account。然后单击保存。

Home > Virtual machines > Boot diagnostics >
Boot diagnostics
Save X Discard
Use this feature to troubleshoot boot failures for custom or platform images. Boot diagnostics can be used with a custom storage account or with a pre-provisioned storage account managed by Microsoft. Please download the info you need before switching from managed storage account to custom storage account. Learn more
Status
Enable with managed storage account (recommended)
Enable with custom storage account
O Disable
Diagnostics storage account *
No existing storage accounts in curre $\checkmark$
Create new

• 第(5)步:在左侧菜单中,从支持+故障排除部分,单击串行控制台。 Azure Cloud Shell将显示 在新窗口中。如果屏幕是黑色的,请按Enter查看登录提示。

Microsoft Azure	🔎 Search resources, services, and docs (G+/) 💿 🚱 📀 💿 🖗
Home > Virtual machines > Virtual machines	Vitual machine Serial console
+ Create ∨ ₹ Switch to classic ···· Filter for any field Name ↑: ♥	Vului machine       ?       Reschack[2]       ©       D         P Search       ?       Reschack[2]       ©       D         P Insights       2021-09-27703135:07.7358392       INTO ExtHandler ExtHandler Start env monitor service.         2021-09-27703135:07.7358392       INTO ExtHandler ExtHandler Start env monitor service.         2021-09-27703135:07.7358392       INTO ExtHandler ExtHandler Start env monitor service.         2021-09-27703135:07.737092       INTO MonitorHandler ExtHandler ExtHandler Configure routes         2021-09-2770315:07.737092       INTO ExtHandler ExtHandler ExtHandler Configure routes         2021-09-2770315:07.737092       INTO ExtHandler ExtHandler ExtHandler Mireserver endpoint:         2021-09-2770315:07.7521732       INTO ExtHandler ExtHandler Wireserver endpoint:         2021-09-2770315:07.7521732       INTO ExtHandler ExtHandler Carway: None         2021-09-2770315:07.7537932       INTO ExtHandler ExtHandler ExtHandler Wireserver endpoint:         2021-09-2770315:07.7597932       INTO ExtHandler ExtHandler ExtHandler Wireserver endpoint:         2021-09-27703:05:07.7597932       INTO ExtHandler ExtHandle
	Connection troubleshoot     2023-09-27T03:35:07.859853Z INFO EnvHandler ExtHandler Set block dev timeout: ada with timeout: 300     2023-09-27T03:35:37.799081Z INFO EnvHandler ExtHandler EnvKonitor: Detected dhcp client restart. Restoring rout:     2023-09-27T03:35:37.801082 INFO EnvHandler ExtHandler Configure routes     2023-09-27T03:35:37.801082 INFO EnvHandler ExtHandler Configure routes     2023-09-27T03:35:37.801082 INFO EnvHandler ExtHandler Configure routes     2023-09-27T03:35:37.801082 INFO EnvHandler Configure routes

- 第(8)步:登录到串行控制台。要登录到串行控制台,您必须使用安装实例时配置的原始密码。
- 第(9)步:使用application reset-passwd ise iseadmin命令为iseadmin帐户配置新的GUI密码。

### 2. 为SSH访问创建新的公钥对

通过此任务,可以向存储库中添加其他密钥对。在Cisco ISE实例配置时创建的现有密钥对不会替换

为您创建的新公钥。

• 第(1)步:在Azure云中创建新公钥。

< Previous Next : Tags >

Home > SSH keys >

Review + create

Create	an	SSH	key	
--------	----	-----	-----	--

Basics Tags Review + create		
Creating an SSH key resource allows you Learn more	to manage and use public keys stored in Azure with Linux virtual machines.	
Project details		
Select the subscription to manage deplo your resources.	yed resources and costs. Use resource groups like folders to organize and manage all	Select Resource group you created from D Drop Down List
Subscription * 💿	×	
Resource group * ③	(New) resource-group-name	
Instance details		Create Key Pair Name
Region * 💿	(US) East US	
Key pair name *	key-pair-name	
SSH public key source	Generate new key pair	
C	lick Review + Create	

您将看到一个弹出窗口,用于选择Download private key和create resource,通过此窗口可下载 SSH密钥作为.pem文件。

# Generate new key pair

An SSH key pair contains both a public key and a 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

# Download private key and create resource

Return to create an SSH key resource

• 第(2)步:要创建新存储库以将公钥保存到,请参阅Azure Repos文档。

如果已经拥有可通过CLI访问的存储库,请跳到步骤3。

- 第(3)步:要导入新的公钥,请使用命令crypto key import <public key filename> repository <repository name>。
- 第(4)步:导入完成后,您可以使用新的公钥通过SSH登录思科ISE。

### 关于此翻译

思科采用人工翻译与机器翻译相结合的方式将此文档翻译成不同语言,希望全球的用户都能通过各 自的语言得到支持性的内容。

请注意:即使是最好的机器翻译,其准确度也不及专业翻译人员的水平。

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