安装和配置安全终端虚拟私有云

日求	
先决条件	
<u>VPC部署</u>	
<u>VM安装</u>	
初始管理接口设置	
<u>通过Web GUI对vPC进行初始配置</u>	
配置	
<u>服务</u>	
<u>AirGap更新软件包</u>	
<u>问题#1 - Data Store的房间耗尽</u>	
<u>问题#2 — 旧更新</u>	
<u>基本故障排除</u>	
<u>问题#1 - FQDN和DNS服务器</u>	
<u> </u>	

简介

本文档介绍并重点介绍如何在ESXi环境中的服务器上成功部署虚拟私有云(VPC)。 有关快速入门指 南、部署策略、授权指南、控制台和管理员用户指南等其他文档,请访问本网站<u>文档</u>

作者:Roman Valenta,Cisco TAC工程师。

先决条件

要求:

VMware ESX 5或更高版本

- 云代理模式(仅限): 128 GB RAM, 8个CPU核心(建议使用2个CPU和4个核心), VMware Datastore的最小可用磁盘空间为1 TB
- 驱动器类型:空隙模式所需的SSD,建议用于代理
- RAID类型:一个RAID 10组(带区镜像)
- 最低VMware Datastore规模:2 TB
- RAID 10组(4K)的最小数据存储随机读取数:60K IOPS
- RAID 10组(4K)的最小数据存储随机写入数: 30K IOPS

Cisco 建议您了解以下主题:

- 有关如何使用证书的基本知识。
- 有关如何在DNS服务器(Windows或Linux)下设置DNS的基本知识
- 在VMWare ESXi中安装开放式虚拟设备(OVA)模板

在本实验中用到:

VMware ESX 6.5

- 云代理模式(仅限):48 GB RAM,8个CPU核心(建议使用2个CPU和4个核心),VMware Datastore上的最小可用磁盘空间为1 TB
- 驱动器类型:SATA
- RAID类型:一个RAID 1
- 最低VMware Datastore规模:1 TB
- MobaXterm 20.2(类似于PuTTY的多终端程序)
- Cygwin64(用于下载AirGap更新)

此外

- 使用openSSL或XCA创建的证书
- DNS服务器(Linux或Windows)我的实验室使用Windows Server 2016和CentOS-8
- 用于测试终端的Windows VM
- 许可证

如果内存低于48GB RAM,那么版本3.2+ VPC将无法使用。

✤ 注意:私有云OVA创建驱动器分区,因此无需在VMWare.服务器中指定这些分区,该服务器 解析干净的接口主机名。

有关特定于版本的硬件要求的详细信息,请参阅<u>VPC设备产品手册</u>。

注:本文档中的信息是从特定实验环境中的设备创建的。本文档中使用的所有设备最初均采用 原始(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。

VPC部署

选择eDelivery或授权邮件中提供的URL。下载OVA文件并继续安装

VM安装

步骤1:

导航到文件>部署OVF模板以打开部署OVF模板向导,如图所示。

1 Select creation type	Select OVE and VMDK files
2 Select OVF and VMDK files	Select the OVE and VMDK files or OVA for the VM you would like to deploy
3 Select storage	
4 License agreements	Enter a name for the virtual machine.
5 Deployment options	AMP-vPC
6 Additional settings 7 Ready to complete	Virtual machine names can contain up to 80 characters and they must be unique within each ESXi instance.
	× m PrivateCloud-Latest.ova



1 New virtual machine - AMP-vPC

- 1 Select creation type
- ✓ 2 Select OVF and VMDK files

3 Select storage

- 4 License agreements
- 5 Deployment options
- 6 Additional settings
- 7 Ready to complete

Select storage

Select the datastore in which to store the configuration and disk files.

The following datastores are accessible from the destination resource that you selected. Select the destination datastore for the virtual machine configuration files and all of the virtual disks.

2.75 GB 921.8 GB	VMFS5	Supported	Single	^
0.25 GB 929.3 GB	VMFS5	Supported	Single	
0.25 GB 929.3 GB	VMFS5	Supported	Single	
0.25 GB 929.3 GB	VMFS5	Supported	Single	4
	.25 GB 929.3 GB .25 GB 929.3 GB .25 GB 929.3 GB .25 GB 929.3 GB	321.8 GB VMP35 .25 GB 929.3 GB VMFS5 .25 GB 929.3 GB VMFS5 .25 GB 929.3 GB VMFS5 .25 GB 929.3 GB VMFS5	Image: second	Image: Notest and the second secon

Back

Next

Finish

Cancel



✤ 注意:厚调配在创建磁盘时保留空间。如果选择此选项,则可以提高调配精简的性能。但是 ,这不是强制性的。现在选择Next,如图所示。

1 Select creation type 2 Select OVF and VMDK files 3 Select storage	Deployment options Select deployment options				
4 Deployment options 5 Ready to complete	Network mappings	VM Network	'M Network		•
	Disk provisioning	Thin O Thick			

步骤 2:

选择Browse...以选择OVA文件,然后在Next中选择。您注意到OVF模板详细信息页面上的默认 OVA参数,如图所示。选择下一步。

elect creation type	Ready to complete			
elect storage	Review your settings selection before finishing the wizard			
eployment options	Product	FireAMP PrivateCloud x86_64		
leady to complete	VM Name	AMP-vPC		
	Disks	PrivateCloud_3.2.0_202010082118_v6.5_signed- disk1.vmdk,PrivateCloud_3.2.0_202010082118_v6.5_signed- disk2.vmdk,PrivateCloud_3.2.0_202010082118_v6.5_signed- disk3.vmdk,PrivateCloud_3.2.0_202010082118_v6.5_signed-disk4.vmdk		
	Datastore	vDisk-70_12		
	Provisioning type	Thin		
	Network mappings	VM Network: VM Network		
	Guest OS Name	Unknown		
vm ware [.]	Do not refresh y	our browser while this VM is being deployed.		

初始管理接口设置

ct creation type Ready to complete ct OVF and VMDK files Review your settings selection	n before finishing the wizard
byment options Y to complete Product	FireAMP PrivateCloud x86_64
VM Name	AMP-vPC
Disks	PrivateCloud_3.2.0_202010082118_v6.5_signed- disk1.vmdk,PrivateCloud_3.2.0_202010082118_v6.5_signed- disk2.vmdk,PrivateCloud_3.2.0_202010082118_v6.5_signed- disk3.vmdk,PrivateCloud_3.2.0_202010082118_v6.5_signed-disk4.vmdk
Datastore	vDisk-70_12
Provisioning type	Thin
Network mappings	VM Network: VM Network
Guest OS Name	Unknown
	your browser while this VM is being deployed.

在VM启动后,通过VM控制台执行初始配置。

步骤 1 :

您可能注意到,如果接口未从DHCP服务器接收IP地址,则URL显示[UNCONFIGURED]。请注意 ,此接口是Management接口。这不是Production接口。

Use the arrow keys to move between fields, and the TAB key to toggle between the form fields and buttons.
Press the ENTER key when finished, or ESC to cancel.
NOTE: Gateway for administration portal return traffic only.
IP Address : 192.168.75.91
IP Address : 192.168.75.91

步骤 2:

可以通过Tab、Enter和箭头键进行导航。

导航到CONFIG_NETWORK,然后选择键盘上的Enter键,开始配置安全终端私有云的管理IP地址。如果不想使用DHCP,请选择No并选择Enter键。

Interface Configuration :: Mode Would you like to configure your interface with DHCP? < Yes > < No →	Privato	e Cloud Advanced	Malware Protection	(ver. 3.2.0)	
-Interface Configuration :: Mode Would you like to configure your interface with DHCP? < Yes > ₹ No >					
Interface Configuration :: Mode Would you like to configure your interface with DHCP? < Yes > < No →					
Unterface Configuration :: Mode Would you like to configure your interface with DHCP? < Yes > ► ► ► ► ► ► ► ► ► ► ► ► ► ► ► ► ► ►					
Unterface Configuration :: Mode Would you like to configure your interface with DHCP? < Yes >					
Unterface Configuration :: Mode Would you like to configure your interface with DHCP? < Yes > No >					
Unterface Configuration :: Mode Would you like to configure your interface with DHCP?					
Would you like to configure your interface with DHCP?			-Interface Configu	ration :: Mode	1
< Yes >	u	ould you like to	configure your into	erface with DHCP?	
< Yes > KNo >		-	5 5		
			< Yes >	K No >	

'our AMP Private Clo	
	ud device can be managed at:
HC HAAress : 00 assword : PG he password shown a ill be required to	90:29:ab:4a:11 8d~HbCgZ bove has been automatically generated for you. You change this password when you first login.
CONFIG_NETWORK CONSOLE INFO	Configure the Web administration interface. Start command line console / shell. Display device status / information. 60%

在出现的窗口中,选择Yes,然后选择Enter键。

MP	Private Cloud Advanced Malware Protection (ver. 3.2.0)
	Apply Your Interface Configuration?
	Reconfigure your administration interface with a static configuration?

如果IP已在使用中,您将使用此错误日志进行处理。只需返回并选择独一无二且未使用的产品。

ERROR : [/etc/sysconfig/network-scripts/ifup-eth] Error, some other host (00:0C:29:41:74:E3) al eady uses address 192.168.75.91. ERROR : [/etc/sysconfig/network-scripts/ifup-eth] Error, some other host (00:0C:29:41:74:E3) al eady uses address 192.168.75.91. ===================================	ERROR eadu uses	: [/etc/sysconfig/network-scripts/ifup-eth] Error, some other host (00:0C:29:41:74:E3) al:
ERRÓR : [/etc/sysconfig/network-scripts/ifup-eth] Error, some other host (00:0C:29:41:74:E3) al eady uses address 192.168.75.91. ===================================	ERROR eady uses	address 192.160.75.51. : [/etc/sysconfig/network-scripts/ifup-eth] Error, some other host (00:0C:29:41:74:E3) al: address 192.168.75.91.
ERROR: The interface failed to reconfigure. 	ERRÓR eady uses	: [/etc/sysconfig/network-scripts/ifup-eth] Error, some other host (00:0C:29:41:74:E3) al address 192.168.75.91.
Press ENTER key to continue	ERROR: The	e interface failed to reconfigure.
	eeees ENTI Press ENTI	ER key to continue

	-Interface Configur	ation :: Details1
Use the arrow key between the form	ys to move between f fields and buttons.	ields, and the TAB key to toggle
Press the ENTER I	key when finished, o	r ESC to cancel.
*NOTE: Gateway fo	or administration po	rtal return traffic only.
	-	
IP Address		8.75.92
Gateway* (Option	omal) : 192.16	8.75.1
		87

如果一切顺利,您会看到如下输出



Restarting eth0...

Reconfiguring...

[2021-04-10T06:12:42+00:00] WARN: Ohai::Config[:disabled_plugins] is set. Ohai::Config[:disabled_plu gins] is deprecated and will be removed in future releases of ohai. Use ohai.disabled_plugins in you r configuration file to configure :disabled_plugins for ohai. [2021-04-10T06:12:42+00:00] WARN: Ohai::Config[:disabled_plugins] is set. Ohai::Config[:disabled_plu gins] is deprecated and will be removed in future releases of ohai. Use ohai.disabled_plugins in you r configuration file to configure :disabled_plugins for ohai. [2021-04-10T06:12:42+00:00] WARN: Ohai::Config[:disabled_plugins] is set. Ohai::Config[:disabled_plu gins] is deprecated and will be removed in future releases of ohai. Use ohai.disabled_plugins in you r configuration file to configure :disabled_plugins for ohai. Starting Chef Client, version 12.14.89

步骤 3:

等到蓝色屏幕再次弹出您的新静态IP。另请注意一次性密码。请记下笔记,然后打开我们的浏览器 。

		Main Menu	ι		1_
Your AMP Pr	ivate Cloud d	device can be ma	maged at:		
LIRI	· https:		, 1		
MAC Address	::: 00:0c:	:29:a6:4a:11			
Password .	: PG8d~H	HbCgZ 🔸 🗕			
The passwor	d shown above	e has been autom	aticallu generat	ed for you. You	ü
will be rea	uired to char	nge this passwor	d when you first	login.	
CONFIC	_NETWORK C	Configure the We	b administration	interface.	
CONSOL	E	Start command-li	ne console / she	<u>11.</u>	
	L	Visplay device s	status / informat	10n.	
				000	-
		<u>< О</u> К	>		

通过Web GUI进行vPC的初始配置

步骤 1 :

打开Web浏览器并导航到设备的管理IP地址。当安全终端私有云最初生成自己的HTTPS证书时,您可能会收到证书错误,如图所示。将浏览器配置为信任安全终端私有云的自签HTTPS证书。

在浏览器中键入您之前配置的STATIC IP。



步骤 2:

登录后,您需要重置密码。在Old Password字段中使用控制台中的初始密码。在New Password(新密码)字段中使用您的新密码。在"新密码"字段中重新输入新密码。在"更改密码"中 选择。

Pa	assword Required	
Auth devi devi	nentication is required to administer y ice. The password can be found on th ice.	our AMP for Endpoints Private Cloud ne device console of your Private Cloud
a.	••••••	Login Use one time password PG8d"HbCgZ
	This site is best viewed in: Inte	ernet Explorer 10+, Firefox 14+, Safari 6+, or Chrome 20

Support

步骤 3:

登录后,您需要重置密码。在Old

Password(新密码)字段中使用您的新密码。在"新密码"字段中重新输入新密码。在"更改密码"中选择。

oport -			100	-
port	. •	•	•	

Change the password used to access the AMP for Endpoints Private Cloud Administration Portal and the device console. Note that this is also the root password for your device. ?

	Warning Your device password is used to authenticate to the Administration P complex passwords or passwords with non-keyboard characters into	ortal as well as the device console. It may not be possible to paste the device console.
Q.	••••••	Old one time password
Q.	*****	
2.	••••••	
Ch	ange Password	

步骤 4:

在下一页上,向下滚动到底部,接受许可协议。选择"我已阅读并同意"(on I have read and agree)。

✓ I HAVE READ AND AGREE S DECLINE

步骤 5:

接受协议后,您会看到安装屏幕,如图所示。如果您想从备份恢复,可以在此处进行恢复,但本指 南将继续使用Clean Installation选项。在Clean Installation部分中选择Start。



步骤 6:

你需要的第一件事就是获得许可证,甚至可以继续前进。购买产品时,您将收到许可证和密码。选择on +Upload License File。选择许可证文件并输入密码。选择Upload License。如果上传失败 ,请检查密码是否正确。如果上传成功,将显示包含有效许可证信息的屏幕。选择"下一步"。如果 仍然无法安装许可证,请与Cisco技术支持联系。

Configuration - Operatio	ns • Status • Integrations • Support •		-
Installation Options Only the License section can be altered after installation.	License		
 Install or Restore License 	Device ID		
	E6 41111111 V5		
	License		
	No license has been installed.		
	Install New License		
	License	+ Upload License File	
	Q		
	The second s		

Configuration + Operatio	ons - Status - In	itegrations - Support -	H	•
Cicense was successful Iploaded	ly 🚽			
nstallation Options Only the License section can be altered after installation.	License	2		
Install or Restore	Device ID			
License Velcome	E6Q			
Deployment Mode				
Account	License			
Hardware Requirements	LICENSE			
Configuration	Licensee	Roman Valenta		
Network Date and Time Certificate Authorities	Business	Cisco - rvalenta 395a6444		
Upstream Proxy Server	Validity	2021-04-01 - 2025-12-31		
 Notifications Backup 	Product SKU	FP-AMP-CLOUD=		
SSH Syslog 🗸	Seats	50		
Updates 🗸				
Services	Replace License		(click to expand)	

步骤 7:

您将收到欢迎页面,如图所示。此页显示配置私有云之前必须拥有的信息。仔细阅读要求。选择 Next以启动安装前配置。



步骤 1 :

注意:请注意,在下一组幻灯片中,我们包含一些独占内容(如图所示),这些内容仅是AIR GAP模式所独有的,应将其括起来并标记为AIRGAP ONLY



[™] [™] AIRGAP ONLY [™] [™]

Configuration - Operat	ions • Status • Integrations • Support •	Standalone	jau w
Installation Options Only the License section can be altered after installation. Install or Restore Uicense Welcome Deployment Mode Standalone Operation AMP for Endpoints Console Account Hardware Requirements Configuration Network Date and Time Certificate Authorities Upstream Proxy Server Email Notifications Backup SSH Systog	<section-header>Deployment Modes against a local database. Development of the connection and communication with Cisco Cloud database. Cloud Proxy Cloud Proxy • Requires an Internet connection and communication with AMP for Endpoints Connectors managed by this device. • Disposition queries are proxied to the Cisco Cloud. • Content updates contain TETRA definitions. • Content and software updates can be retrieved and applied automatically.</section-header>	 Standalone is position servers. Standalone is position servers and performs disposition looku Standalone May require an Internet connection Communication with AMP for Endpoints Connectors managed by this device are n Disposition queries are handled by the Pricloud device. Content updates contain TETRA definition well as file disposition information. Updates may be downloaded separately of automatically on this device. 	node ips eeded. vate is as r



仅《《AIRGAP》》《

步骤 2:

导航到Secure Endpoint Console Account页面。管理用户用于控制台,以创建策略、计算机组并添加其他用户。输入控制台帐户的名称、电子邮件地址和密码。选择Next。

·	perations + Status +	Integrations + Sup	* Troc	
Installation Options Only the License section can altered after installation. Install or Restore	 AMP for Configure the initial 	account for the AMP for	Tendpoints Console. The AMP for	e Account
> License > Welcome	 main interface for year 	our AMP for Endpoints	Private Cloud.	
> Deployment Mode	✓ Name	Roman	Valenta	
AMP for Endpoints				
> Hardware Requirements	Business Name	Cisco - rvalenta		
Configuration		rval		
> Network	Email Address	n/al com		
Date and Time Cartificate Authorities		- Com		
> Upstream Proxy Server	*	••••••	••••	
Cisco Cloud	Password			
Email	•			
, nouncations	100			

如果在从OVA文件部署时解决此问题,则您有两种选择:稍后继续并修复此问题,或者关闭以部署 到已部署的虚拟机并相应地调整。重新启动后,继续您离开的位置。

≫ 注:这已在OVA文件中修复,适用于版本3.5.2,使用128GB RAM和8CPU核心正确加载



💊 注:除非用于实验,否则请仅使用建议值

Add hard disk 🛤 Add netw	ork adapter 🛛 💾 Add other device		
CPU	8 🔹 🚺 🔫		
Memory	131072 MB •	It will work with 48G	b as well
Hard disk 1	376.52343 MB •		¢
Hard disk 2	17.272949 GB 🔻		6
Hard disk 3	1.7216082 TB v		6
Hard disk 4	4.765625 GB 🔻		e
SCSI Controller 0	LSI Logic Parallel		¢
Network Adapter 1	VM Network	▼ ☑ Connect	6
Network Adapter 2	VM Network	▼ ☑ Connect	6
SD/DVD Drive 1	Host device	▼ □ Connect	¢
Video Card	Specify custom settings	*	

重新启动后,我们继续原来的位置。

Configuration - Opera	ations • Status • In	tegrations - Support -			H -	
Installation Options Only the License section can be altered after installation.	Hardwa	re Requir	ements			
Install or Restore License Welcome Deployment Mode	✓ Hardwar Your current cor	e Requirements Met	s the hardware requirements.			
AMP for Endpoints Console Account	Hardware Configuration					
> Hardware Requirements		Installed	Minimum Required	1		
Configuration	CPU Cores	8	8			
 Date and Time Certificate Authorities 	Memory	125 GB	128 GB			
> Upstream Proxy Server 🗸	•			_		
Cisco Cloud					Next >	
> Notifications						
Backup						
Contraction and Contraction of Contr						
> SSH						

确保也为ETH1配置静态IP。

注意:除非您已为接口创建MAC地址预留,否则切勿将设备配置为使用DHCP。如果接口的 IP地址发生更改,则可能导致已部署的安全终端连接器出现严重问题。如果未配置DNS服务器 ,您可以使用公共DNS临时功能完成安装。

步骤 3:

Configuration - Operation	ons • Status • Integrations • Support •
Installation Options Only the License section can be altered after installation.	Network Configuration
> Install or Restore	Chabing Mart will made come introfesse configuration before calidation core pattings. If using
> License 🗸	DEC. a subsection will be performed to obtain the researced DEC large
> Welcome 🗸	Drice, a teleasenenew will be penonneu to obtain the teserved Drice lease.
> Deployment Mode	
AMP for Endpoints Console	Administration Portal eth0 / 00:0C:29:A6:4A:11
> Hardware Requirements 🛛 🗸	IP Assignment 192 168 75 92
Configuration	More details
> Network 🗸	
Date and Time	
Certificate Authorities	Interface Configuration eth1 / 00:0C:29:A6:4A:1B
🕨 Upstream Proxy Server 🛛 🗸	
Cisco Cloud	IP Assignment 192 168 75 209
> Email 🗸	in Poliginion (2.101.2.2.0
Notifications	More details
🕨 Backup 🗸 🗸	
> SSH	ID Assignment Static
> Syslog 🗸 🗸	IP Assignment
> Updates 🗸 🗸	IP Address 192.168.75.93
Services	Check for IP Address conflicts
> Authentication	
AMP for Endpoints Console	Subnet Mask 255.255.0
Disposition Server	Gataway 192 152 75 1
Disposition Server	Gateway 192, 100, 15, 1
Extended Protocol	
Disposition Update	
Service	DNS
Firepower Management	
Center	Primary DNS Server 8.8.8.8
Other	
Recovery	Secondary DNS Server
Review and Install	

步骤 4:

您将看到"日期和时间"页面。输入要用于日期和时间同步的一个或多个NTP服务器的地址。您可以 使用内部或外部NTP服务器,并指定多个以逗号或空格分隔的列表。将时间与浏览器同步,或从设 备控制台运行amp-ctl ntpdate以强制与NTP服务器进行即时时间同步。选择"下一步"。



It is suggested that you begin the download process now since the initial update is very large.



仅《《AIRGAP》》《

步骤 5:

您将看到Certificate Authorities页面,如图所示。选择on Add Certificate Authority以添加根证书。



步骤 6:

下一步是配置思科云页面,如图所示。选择适当的思科云区域。如果需要为安全终端私有云设备创 建防火墙例外以与思科云进行通信以进行文件查找和设备更新,请展开View Hostnames。选择

Next_o



步骤 7:

导航至通知页面,如图所示。选择关键通知和定期通知的频率。输入要接收安全终端设备警报通知 的邮件地址。您可以使用邮件别名,或通过逗号分隔列表指定多个地址。您还可以指定设备使用的 发件人姓名和邮件地址。这些通知与安全终端控制台订阅不同。如果您有多个安全终端私有云设备 ,您还可以指定唯一的设备名称。选择"下一步"。

Configuration - Operat	ions - Status - Integrations -	Support -		
Installation Options Only the License section can be altered after installation.	Notifications			
 Install or Restore License 	Notification Frequency			
Welcome Welcome Deployment Mode MIR for Entropiete Concelle	Critical Notification Frequency	O HELP	O Every 5 Minutes	~
Account Hardware Requirements	Notification Frequency	O HELP	O Every Week	~
Configuration Network	Notification Addresses			
Date and Time Certificate Authorities Upstream Proxy Server	Notification Recipients	O HELP	va turiju i so om	
Cisco Cloud Email	Notification Sender Address	O HELP	donotreply@cisco.com	
> Backup	Notification Sender Name	O HELP	AMP for Endpoints Device	
> Syslog > Updates	Device Name			
Services Authentication AMP for Endpoints Console	Device Name	• HELP	CyberNet vPC 2	
 Disposition Server Disposition Server 				Next >

步骤 8::

接下来,导航至SSH Keys页面,如图所示。选择on Add SSH Key以输入要添加到设备的所有公钥。SSH密钥允许您通过具有根权限的远程外壳访问设备。只有受信任的用户才能被授予访问权限。 您的私有云设备需要OpenSSH格式的RSA密钥。您稍后可以通过Administration Portal中的 Configuration > SSH添加更多SSH密钥。选择Next。



This page allows you to add and remove SSH keys on your Cisco AMP for Endpoints Private Cloud device. SSH keys allow administrators remote root authentication to the device. Only trusted users should be granted access.

Windows PuTTY		
2021-11-17 23:01:01 +0000 created 20 days ago	2021-11-17 23:01:01 +0000 20 days since last update	C Edit

接下来,您将看到"服务"部分。在接下来的页面中,您需要为这些设备服务分配主机名并上传适当 的证书和密钥对。在接下来的几张幻灯片中,我们可以看到6个证书中的一个的配置。

服务

步骤 1 :

在配置过程中,您可能会遇到这些错误。

您可能会注意到的第一个"错误"以3个箭头突出显示。要绕过此检查,只需取消选中"Disable Strict TLS Check"



不使用严格TLS检查



步骤 2:

如果您未选中"Validate DNS Name",则会出现下一个错误。这里有两个选择。

#1:取消选中Validate DNS复选标记

#2:返回到DNS服务器并配置其余主机记录。

An error occurre	d while processing your request	•
Hostname does not resolve		
Installation Options		
Only the License section can	Authentication Con	ifiguration
be altered after installation.		3
> Install or Restore	Authentication Vestname	
> License 🗸	Authentication nostilaine	OHELP
> Welcome 🗸	Q vPC2 Authentication substruarid local	Validate DNS Name
Deployment Mode	VFG2-Autrenucation.Cyber WorkLibical	
Console Account		
> Hardware Requirements 🖌	Authoritiantian Cartificate	Hada Declara Catificata
Configuration	Authentication Certificate Disa	ble Strict TLS Check
Configuration		
Date and Time	Certificate (PEM .CPT)	Key (PEM .key)
> Certificate Authorities	Cartificate file has been unloaded	Kay file has been unleaded
> Upstream Proxy Server 🖌	Certificate lie has been uploaded.	Rey lie has been uploaded.
> Cisco Cloud	Certificate is in a readable format	Key contains a supported key type
> Email V		Key contains a supported key type.
> Backup	Certificate start and end dates are valid.	Key contains public key material.
> ssh 🗸		
> Syslog 🗸	Certificate contains a subject.	Key contains private key material.
> Updates 🗸		
Services	Certificate contains a common name.	 Key contains a public key matching the
> Authentication		uploaded certificate.
AMP for Endpoints	Certificate contains a public key matching	
Console	the uploaded key.	Choose Key
Disposition Server	Certificate matches hostname.	
Extended Protocol		
Disposition Update	Certificate is signed by a trusted root	
Service	authority.	
Center		
57500 ¹	Choose Certificate	
Other		
Recovery		

现在,对其余证书重复相同过程五次。

身份验证

— 身份验证服务可用于未来版本的私有云,以处理用户身份验证。

安全终端控制台

— 控制台是安全终端管理员可访问安全终端控制台的DNS名称,安全终端连接器可接收新策略和更 新。

处置服务器

- Disposition Server是安全终端连接器发送和检索云查找信息的DNS名称。

Disposition Server — 扩展协议

— 处置服务器 — 扩展协议是较新的安全终端连接器发送和检索云查找信息的DNS名称。

处置更新服务

— 将Cisco Threat Grid设备链接到私有云设备时,使用处置更新服务。Threat Grid设备用于从安全 终端控制台发送要分析的文件,而Threat Grid使用Disposition Update Service在文件分析后更新其 处置情况(安全或恶意的)。

Firepower 管理中心

- Firepower管理中心链接可将Cisco Firepower管理中心(FMC)设备链接到私有云设备。这允许您在 FMC控制面板中显示安全终端数据。有关FMC与安全终端集成的详细信息,请参阅您的FMC文档。

🗥 注意:一旦设备完成安装,就无法更改主机名。

记下所需的主机名。您需要为安全终端私有云创建六个唯一的DNS A记录。每个记录都指向虚拟私 有云控制台接口(eth1)的相同IP地址,并且必须由私有云和安全终端解析。

步骤3:

在下一页下载,然后验证恢复文件。

您将看到"恢复"页面,如图所示。在开始安装之前,您必须下载并验证配置的备份。恢复文件包含 所有配置以及服务器密钥。如果丢失恢复文件,则无法恢复配置,必须重新安装所有安全终端连接 器。如果没有原始密钥,您必须使用新密钥重新配置整个私有云基础设施。恢复文件包含与 opadmin门户相关的所有配置。备份文件包含恢复文件的内容以及任何控制面板门户数据(如事件 、连接器历史记录等)。如果您希望只恢复opadmin而不恢复事件数据及所有数据,则可以使用恢 复文件。如果从备份文件恢复,则会恢复opadmin和控制面板门户数据。

选择on Download以将备份保存到本地计算机。下载文件后,选择Choose File上传备份文件并验证 其未损坏。选择Next以验证文件并继续。



	ons * Status * Integratio	ns • Support •		H -	
Installation Options Only the License section can be altered after installation. Install or Restore License	Review the following inform installation. Note that the cor	nd Install ation and, once you are satisfied with your config nfiguration shown below cannot be altered after i	uration settings, begin the istallation.		
AMP for Endpoints Console Account Hardware Requirements Configuration		Clean Installation			
> Network					
Certificate Authorities Upstream Proxy Server	Installation Type		1	Edit	
> Email 🗸	Cloud Proxy				
Notifications Packup SSH SSH Syslog Updates Services	 Requires an Internet of device. Disposition queries are Content updates conta Content and software 	connection and communication with AMP for End proxied to the Cisco Cloud, in TETRA definitions, updates can be retrieved and applied automatica	oints Connectors managed t ly.	ey this	
Notifications Solution Solution Solution Syslog Updates Services Authentication AMP for Endpoints Console	Requires an Internet of device. Disposition queries are Content updates conta Content and software AMP for Endpoints Contact	connection and communication with AMP for End proxied to the Cisco Cloud. in TETRA definitions. updates can be retrieved and applied automatical sole Account	oints Connectors managed t ly.	edit	
Notifications Notifications Backup SSH SSH Systog Updates Services Authentication AMP for Endpoints Console Disposition Server	Requires an Internet of device. Disposition queries are Content updates conta Content and software AMP for Endpoints Contained Name	ennection and communication with AMP for Endp e proxied to the Cisco Cloud. in TETRA definitions. updates can be retrieved and applied automatical sole Account Roman Valenta	oints Connectors managed b ly.	ey this	
Notifications Notifications Backup SSH Syslog Syslog Updates Services Authentication AMP for Endpoints Console Disposition Server Extended Protocol	Requires an Internet of device. Disposition queries are Content updates conta Content and software AMP for Endpoints Contain Name Email Address	ennection and communication with AMP for Endp e proxied to the Cisco Cloud. in TETRA definitions. updates can be retrieved and applied automatical sole Account Roman Valenta rya	oints Connectors managed b ly.	y this Edit	
Notifications Backup Solution Solution Solution Solution Solution Authentication AMP for Endpoints Console Disposition Server Extended Protocol Disposition Update Service Service	Requires an Internet of device. Disposition queries are Content updates conta Content and software AMP for Endpoints Contain Name Email Address Business Name	eonnection and communication with AMP for Endp a proxied to the Cisco Cloud. in TETRA definitions. updates can be retrieved and applied automatical sole Account Roman Valenta rvatements om Cisco - rvalenta	oints Connectors managed b ly.	Edit	
Notifications Backup Backup SSH Syslog Vupdates Vupdates Authentication AMP for Endpoints Console Disposition Server Extended Protocol Disposition Update Service Firepower Management Center Other	Requires an Internet of device. Disposition queries are Content updates conta Content updates conta Content and software AMP for Endpoints Conta Name Email Address Business Name Recovery	eonnection and communication with AMP for Endp a proxied to the Cisco Cloud. in TETRA definitions. updates can be retrieved and applied automatical sole Account Roman Valenta rvaterie orm Cisco - rvalenta	oints Connectors managed t ly.	edit	

 $\stackrel{\scriptstyle\checkmark}{\scriptstyle\checkmark}$ AIRGAP ONLY $\stackrel{\scriptstyle\checkmark}{\scriptstyle\checkmark}$

Configuration - Operation	ns • Status • Integra	tions - Support -	Standalone) INI -
Installation Options Only the License section can be altered after installation. > Install or Restore > License	Review the following inform installation. Note that the o	nd Install nation and, once you are satisfied with configuration shown below cannot be a	your configuration settings, begin Itered after installation.	n the
 > Welcome > Deployment Mode > Standalone Operation > AMP for Endpoints Console Account > Hardware Requirements 		Clean Installatio	n rmed.	
Configuration				
 > Network > Date and Time > Certificate Authorities 	Installation Type		٩	✓ Edit
 Prepare amp-sync Prepare amp-sync Email Notifications Backup SSH Syslog Updates 	Standalone Air Gap Does not require an li Communication with Disposition queries a Content updates cont Updates must be dow	nternet Connection AMP for Endpoints Connectors manag re handled by the Private Cloud device tain TETRA definitions as well as file d wnloaded separately and applied to this	ed by this device are needed. isposition information. s Private Cloud device.	
Services	AMP for Endpoints Cor	nsole Account	4	✓ Edit
AMP for Endpoints Console Spisosition Server	Name	Roman Valenta		
Extended Protocol	Email Address	rval		
> Disposition Update Service Firepower Management	Business Name	Cisco vamrodia PC v2		
Center	Recovery		4	Edit
Other				

仅《《AIRGAP》》《

您会看到类似输入内容……

⚠ 注意:当您位于此页面时,不会刷新,因为它可能会导致问题。

The device is installing...

Please wait for this page to redirect you. Refreshing manually might cause problems. Installation time is typically under 20 minutes.

III State	🛗 Started	🛗 Finished	 Duration 	
	Sat Apr 10 2021 13:36:08 GMT-0400 (Eastern Daylight Time) 0 day, 0 hour, 0 minute, 14 seconds ago	O Please wait	O Please wait	

Your device will need to be rebooted after this operation.

Reboot

le_chunk		
[2021-04-10T17:36:20+00:00] DE	JG: Chef::HTTP::StreamHandler calling Chef::HTTP::Decompressor::NoopInflater#handle_chunk	
[2021-04-10T17:36:20+00:00] DE	<pre>/G: Chef::HTTP calling Chef::HTTP::Decompressor#handle_request</pre>	
[2021-04-10T17:36:20+00:00] DE	<pre>/G: Chef::HTTP calling Chef::HTTP::Authenticator#handle_request</pre>	
[2021-04-10T17:36:20+00:00] DE	<pre>/G: Chef::HTTP calling Chef::HTTP::RemoteRequestID#handle_request</pre>	
[2021-04-10T17:36:20+00:00] DE	<pre>/G: Chef::HTTP calling Chef::HTTP::ValidateContentLength#handle_request</pre>	
[2021-04-10T17:36:20+00:00] DE	<pre>/G: Chef::HTTP calling Chef::HTTP::ValidateContentLength#handle_stream_complete</pre>	
[2021-04-10T17:36:20+00:00] DE	JG: HTTP server did not include a Content-Length header in response, cannot identify truncated do	W
nloads.		
[2021-04-10T17:36:20+00:00] DE	JG: Chef::HTTP calling Chef::HTTP::RemoteRequestID#handle_stream_complete	
[2021-04-10T17:36:20+00:00] DE	<pre>/G: Chef::HTTP calling Chef::HTTP::Authenticator#handle_stream_complete</pre>	
[2021-04-10T17:36:20+00:00] DE	<pre>/G: Chef::HTTP calling Chef::HTTP::Decompressor#handle_stream_complete</pre>	
[2021-04-10T17:36:20+00:00] DE	<pre>/G: Chef::HTTP calling Chef::HTTP::CookieManager#handle_stream_complete</pre>	
[2021-04-10T17:36:20+00:00] DE	JG: Chef::HTTP calling Chef::HTTP::JSONOutput#handle_stream_complete	
[2021-04-10T17:36:20+00:00] DE	JG: Chef::HTTP calling Chef::HTTP::JSONInput#handle_stream_complete	
[2021-04-10T17:36:20+00:00] IN): Storing updated cookbooks/rabbitmq/recipes/default.rb in the cache.	
[2021-04-10T17:36:20+00:00] DE	JG: Creating directory /var/run/cookbooks/rabbitmq/recipes	

安装完成后,点击reboot按钮

The device is installing...

Please wait for this page to redirect you. Refreshing manually might cause problems. Installation time is typically under 20 minutes.

State	🛗 Started	🛗 Finished	② Duration
✓ Successful	Sat Apr 10 2021 13:36:08 GMT-0400 (Eastern Daylight Time) 0 day, 0 hour, 24 minutes, 14 seconds ago	Sat Apr 10 2021 13:57:05 GMT-0400 (Eastern Daylight Time) 0 day, 0 hour, 3 minutes, 17 seconds ago	0 day, 0 hour, 20 minutes, 57 seconds
	Your device will need to be	rebooted after this operation.	
	Re	20001	
■Output			
[2021-04-10T17:57:04+00	0:00] INFO: Running report handlers		^
[2021-04-10T17:57:04+00	0:00] INFO: Report handlers complete		
[2021-04-10T17:57:04+00	0:00] DEBUG: Server doesn't support resourc	e history, skipping resource report	t.
[2021-04-10T17:57:04+00	0:00] DEBUG: Audit Reports are disabled. Sk	cipping sending reports.	
[2021-04-10T17:57:04+00	0:00] DEBUG: Forked instance successfully r	reaped (pid: 2552)	
[2021-04-10T17:57:04+00	0:00] DEBUG: Exiting		
Sending system notifica	ation (this may take some time).		
Running retryable comma	and, 40 retries remaining.		
Chef run finished succe	essfully		

Registration against the	he AMP for Endpoints Disposition Server has	previously succeeded.	
Installatio	on has finished successfully! Please reboo	st 1	
Installatio	an inder tendenties accessively. Fredse reboo		

[≫] [∞] AIRGAP ONLY [∞] [∞]

	Started	🛗 Finished	O Duration
✓ Successful	Tue Nov 02 2021 14:46:30 GMT-0400 (Eastern Daylight Time) 0 day, 0 hour, 21 minutes, 21 seconds ago	Tue Nov 02 2021 15:07:02 GMT-0400 (Eastern Daylight Time) 0 day, 0 hour, 0 minute, 49 seconds ago	0 day, 0 hour, 20 minutes, 32 seconds
	Your device will need to be	rebooted after this operation.	
Output			
.021-11-02119.07.	attoo.oo] INLO. Kunning Leborr Hauniers		
021-11-02T19:07:	01+00:00] INFO: Report handlers complete		
021-11-02119:07: 021-11-02T19:07:	01+00:00] DEBUG: Server doesn't support (01+00:00] DEBUG: Audit Reports are disab	resource history, skipping reso led. Skipping sending reports.	urce report.
021-11-02T19:07:	01+00:00] DEBUG: Forked instance success	fully reaped (pid: 29292)	
021-11-02T19:07:	01+00:00] DEBUG: Exiting		
nding system not	ification (this may take some time).		
	command, 40 retries remaining.		
nning retryable			
nning retryable ====================================	successfully		
nning retryable ======= ef run finished ========	successfully		
nning retryable ef run finished gistration is no	successfully t possible in air gap mode.		
nning retryable ef run finished gistration is no	successfully t possible in air gap mode.		
nning retryable ef run finished gistration is no	successfully		

仅《《AIRGAP》》《

设备完全启动后,下次使用管理员界面登录时,您会看到此控制面板。 您可能会注意到开始时的 CPU使用率较高,但如果您用几分钟时间,CPU使用率会降低。



几分钟后……



从此处导航至安全终端控制台。点击标志右边看上去像火的小图标。



[™] [™] AIRGAP ONLY [™] [™]

如您所见,由于DB Protect Snapshot(DB保护快照),以及客户端定义、DFC和Tetra,我们未通 过健全性检查。这必须通过下载的ISO文件来完成,该文件之前通过amp-sync准备并上传到VM或存 储在NFS位置。



Key Metrics





AirGap更新软件包

为了接收Protect DB,我们必须第一次使用此命令

./amp-sync all

注:请通过此命令下载所有软件包,然后进行验证,耗时可能超过24小时。取决于速度和链路质量。对于使用1Gig光纤的情况,最终需要近25小时才能完成。部分原因还在于此下载直接从AWS进行,因此被限制。最后,请注意此下载量相当大。就我而言,下载的文件是323GB。

在本示例中,我们使用CygWin64

1.下载并安装x64版本的Cygwin。
 2.运行setup-x86_64.exe并完成安装过程,选择所有默认值。
 3.选择下载镜像。
 4.选择要安装的软件包:
 All -> Net -> curl
 所有 — >实用程序 — > genisoimage

E -	-
Jser@VMStation-1 -	
s ./amp-sync all	
XXWNLOAD https://pc-packages.amp.cisco.com/PrivateCloud/3.2.0/MOTD	
No MOTD for today, nothing to download. Continuing	
XXWNLOAD https://pc-packages.amp.cisco.com/PrivateCloud/3.2.0/MOTD-AmpSync-1.0.7	
No MOTD for today, nothing to download. Continuing	
XXXNLOAD https://pc-packages.amp.cisco.com/PrivateCloud/3.2.0/MOTD-AmpSync-1.0.7-prod	
No MOTD for today, nothing to download. Continuing	
XXXNLOAD https://pc-packages.amp.cisco.com/PrivateCloud/3.2.0/prod/repodata/repomd.xml	
% Total % Received % Xferd Average Speed Time Time Time Current	
Dload Upload Total Spent Left Speed	
XXXNLOAD https://pc-packages.amp.crsco.com/PrivateCloud/3.2.0/prod/repodata/0813e8/ac364885e8a82aa3b568226cdrdff10d0Db1cb2408/5ee43a89240ea0-other.sqlite.bz2	
% lotal % Received % Ateria Average Speed Time Time Time Current	
Uload upiload lotal spent Left speed	
$100 \pm 1001 \pm 1001 \pm 101$ 0 0 young 0 = 1 = 1 = 1 = 1 = 1 = 1 = 9/K	
$E(C_{1})$ $(E(U_{2})/(U_{2})$	
AminLow https://pc-packages.amp.cisco.com/rftvate.loud/s.z.v/prod/repoated/zz1+9a/resid/ieeissuzes/uc/cu/cu/cu/cu/cu/cu/cu/cu/cu/cu/cu/cu/	
Diad inhad inhad Total Snant Left Snaad	
100 915k 100 915k 0 0 3224k 0	
ETCH 0K https://pc-packages.amp.cisco.com/PrivateCloud/3.2.0/prod/repodata/22f49a7fe81b71ee153b1e870c7f6d20c9238a89c7d7e277956bbccb2c2f41d8-filelists.xml.gz	
2000NLOAD https://pc-packages.amp.cisco.com/PrivateCloud/3.2.0/prod/repodata/691eabb8ceb5473093376c1a6312ed1e3cd6593fd1df2af1e3b3dbe472d84ff9-filelists.sglite.bz2	
% Total % Received % Xferd Average Speed Time Time Time Current	
Dload Upload Total Spent Left Speed	
100 1094k 100 1094k 0 0 3302k 0::: 3317k	
ETCH_OK https://pc-packages.amp.cisco.com/PrivateCloud/3.2.0/prod/repodata/691eabb8ceb5473093376c1a6312ed1e3cd6593fd1df2af1e3b3dbe472d84ff9-filelists.sqlite.bz2	
XXWNLOAD https://pc-packages.amp.cisco.com/PrivateCloud/3.2.0/prod/repodata/e4e3c4029829b3a3b02751f61af15f36561a8aac1ea7b1af66101d0eab569014-primary.sqlite.bz2	
% Total % Received % Xferd Average Speed Time Time Time Current	
Dload Upload Total Spent Left Speed	
100 135k 100 135k 0 0 747k 0:::- 756k	
ETCH_OK https://pc-packages.amp.cisco.com/PrivateCloud/3.2.0/prod/repodata/e4e3c4029829b3a3b02751f61af15f36561a8aaclea7b1af66101d0eab569014-primary.sqlite.bz2	
200WLQAD https://pc-packages.amp.cisco.com/PrivateCloud/3.2.0/prod/repodata/e6f73d52fc5079064faff7178401579a8de6259f8ac91ble5e913cdb4a7ff069-primary.xml.gz	
% Total % Received % Xferd Average Speed Time Time Current	
Dioad Upload Iotal Spent Left Speed	
100 54480 0 0 383k 0::: 385k	

99.91% done, estimate finish Thu Nov 4 08:39:50 2021 99.92% done, estimate finish Thu Nov 4 08:39:50 2021 99.92% done, estimate finish Thu Nov 4 08:39:50 2021 99.92% done, estimate finish Thu Nov 4 08:39:50 2021 99.92% done, estimate finish Thu Nov 4 08:39:50 2021 99.93% done, estimate finish Thu Nov 4 08:39:50 2021 99.93% done, estimate finish Thu Nov 4 08:39:50 2021 99.93% done, estimate finish Thu Nov 4 08:39:50 2021 99.93% done, estimate finish Thu Nov 4 08:39:50 2021 99.93% done, estimate finish Thu Nov 4 08:39:50 2021 99.94% done, estimate finish Thu Nov 4 08:39:50 2021 99.94% done, estimate finish Thu Nov 4 08:39:50 2021 99.94% done, estimate finish Thu Nov 4 08:39:50 2021 99.95% done, estimate finish Thu Nov 4 08:39:50 2021 99.95% done, estimate finish Thu Nov 4 08:39:50 2021 99.95% done, estimate finish Thu Nov 4 08:39:50 2021 99.95% done, estimate finish Thu Nov 4 08:39:50 2021 99.95% done, estimate finish Thu Nov 4 08:39:50 2021 99.95% done, estimate finish Thu Nov 4 08:39:50 2021 99.96% done, estimate finish Thu Nov 4 08:39:51 2021 99.96% done, estimate finish Thu Nov 4 08:39:51 2021 99.97% done, estimate finish Thu Nov 4 08:39:51 2021 99.97% done, estimate finish Thu Nov 4 08:39:52 2021 99.98% done, estimate finish Thu Nov 4 08:39:52 2021 99.98% done, estimate finish Thu Nov 4 08:39:52 2021 99.99% done, estimate finish Thu Nov 4 08:39:52 2021 99.99% done, estimate finish Thu Nov 4 08:39:52 2021 99.99% done, estimate finish Thu Nov 4 08:39:52 2021 99.99% done, estimate finish Thu Nov 4 08:39:52 2021 99.99% done, estimate finish Thu Nov 4 08:39:52 2021 99.99% done, estimate finish Thu Nov 4 08:39:52 2021 100.00% done, estimate finish Thu Nov 4 08:39:52 2021 101.000% done, estimate finish Thu Nov 4 08:39:52 2021 102.000% done, estimate finish Thu Nov 4 08:39:52 2021 103.99% done, estimate finish Thu Nov 4 08:39:52 2021 104.1 ranslation table size: 0 105.1 ranslation table size: 0 105.2 done, estimate finish Thu Nov 4 08:39:52 2021 105.0 done, estimate finish Thu N E-

ackage successful: PrivateCloud-3.2.0-Updates-2021-11-03-prod.iso



注意:在最新更新的VPC 3.8.x中,如果使用CygWin64作为主要下载工具,您可能会遇到 下面描述的问题。



<u>发行说明</u>第#58页。您可以看到,xorriso现在为必填项。我们将ISO的格式更改为ISO 9660,该依 赖关系是将图像转换为正确的格式,以便完成更新。遗憾的是,CygWin64不在其任何内置存储库 中提供xorriso。然而,对于那些仍希望使用CygWin64的客户,有办法克服这个问题。

Installing dependencies

CentOS

To run amp-sync you will first have to install EPEL, xorriso, and xmlstarlet.

- 1. Enable the EPEL repo.
 - > sudo yum install epel-release
- 2. Install dependencies via yum.
 - > sudo yum install xorriso
 - > sudo yum install xmlstarlet

Ubuntu

To run amp-sync you will first have to install xorriso and xmlstarlet.

- Install dependencies via apt.
 - > sudo apt install xorriso
 - > sudo apt install xmlstarlet

Windows

- 1. Set up Windows Subsystem for Linux (WSL) with the Ubuntu distribution. See the Microsoft documentation for details.
- Expand the WSL virtual hard disk size to comply with minimum free disk space. See the Microsoft documentation for details.
- 3. Install xorriso and xmlstarlet dependencies via apt.
 - > sudo apt install xorriso
 - > sudo apt install xmlstarlet

为了能够再次使用CygWin,您必须从GitHub存储库手动下载xorriso。打开浏览器并键入<Latest xorriso.exe 1.5.2 pre-build for Windows>,它应该作为名为<PeyTy/xorriso-exe-for-windows - GitHub>的第一个链接导航到该GitHub页面,然后下载<xorriso-exe-for-windows-master.zip>文件到 您找到的其他几个名为<xorriso.exe>的文件中,复制此文件,并将其粘贴到您的本地Cyg的 <CygWin64\bin路径Win安装。请尝试再次运行<amp-sync>命令。您不应再看到错误消息并下载开始和完成,如图所示。



在Airgap模式下执行当前(在本例中)3.2.0 VPC的备份。

您可以从CLI使用此命令

rpm -qa | grep Pri

也可以导航到操作>备份,如映像中所示,并在那里执行备份。



Backups create a copy of your configuration and databases.

Manual Backup

	Last Backup Successful
To fac	Transferring Backups To External Storage Is Recommended ilitate disaster recovery, you are strongly encouraged to transfer backup archives to a secure external backup location. Transfer of
	backup archives can be performed via download, sftp, or rsync.
	🗁 Backup Job Details

The number of backups that will be stored on disk is: 1.

Name	🖨 Size	🛗 Timestamp	E Operations
/data/backups/amp-backup-20211106-0000.18.bak	738 MB	2021-11-06 00:03:43 +0000 about 17 hours ago	2

将通过amp-sync生成的最新ISO传输到VPC。根据您的速度,这最多也可能需要几个小时。在本例中,传输时间超过16小时

/data/tmp

Servers T	ools Sessions View	Spit MultExer	Tunneling Packages Se	ttings Help			
1.mp/						Ø	MobaXterm 20.2 • (SSH client, X-server and networking tools)
Name preserved-cor pdb_tmp	Size (A) Last modified 2021-10-30 2021-11-02	Owner Group root root root root	Access drvor-or-x. drvox,			 > SSH session to root@192.168.75.88 > SSH compression : / > SSH-browser : / > SSH-browser : / > X11-forwarding : x (disabled or not supported by server)
mysql ignored-back, fink frehose-cass	ip-config-files andra-replay	2021-11-06 2021-10-30 2021-11-02 2021-11-02	mysql mysql root root root root root root	drwx, drwx-sr-x, drwx-sr-x, drwx-sr-x,			 DISPLAY : 192.168.75.9:0.0 For more info, ctrl+click on <u>help</u> or visit our <u>website</u>
frehose-cass	andra	2021-11-02	root root	drwxr-xr-x.			Last login: Thu Nov 4 03:31:10 2021 from 192.168.75.9 [root@fireamp ~]#
Choose whic	h file(s) to upload					×	
Look in:	User		· 🗿 🗊 🛤 🛄 •				
tuick access	Name amp-sync-data bash_profile		Date modified 11/3/2021 10:31 PM 11/3/2021 12:57 PM	Type File folder BASH_PROFILE File	Size 2 KB		
			11/3/2021 12:57 PM 11/3/2021 12:57 PM	BASHRC File INPUTRC File	6 KB 2 KB		
Desktop	profile amp-sync		11/3/2021 12:57 PM 11/2/2021 2:06 PM	PROFILE File File	2 KB 83 KB		
Libraries	PrivateCloud-3.2.0-U	pdates-2021-11-03-p	o 11/4/2021 8:39 AM	Uisc Image File	\$15,606,53		
This PC							
	File name: Private	Joud-3 2.0-Updates-202	1-11-03-prod.iso		Ý	Open	
					201	and the second se	

上传完成后,安装ISO

mount /data/tmp/PrivateCloud-3.2.0-Updates-2021-11-03-prod.iso /data/updates/

ick connect		-					S 2. AMP VPC AG ×
🛓 Ŧ 🕲 🎭 🖿 🕲 🔦 🕅 🚺 🖉 🛲						0	<pre>* MobaXterm 20.2 * (SSH client, X-server and networking tools)</pre>
Name Description Config-files Dot, the instal opported backup-config-files Ank Ank-bac-cassandra registy Ank-bac-cassandra registy Ank-bac-cassandra PrivateCloud-3.2.0-4.pdates-2021-11-03-prod.iso	Sae (48) 315 606 530	Last modified 2021-10-30 2021-11-02 2021-11-07 2021-10-00 2021-11-02 2021-11-02 2021-11-02 2021-11-07	Owner root root root root root root	Group root root root root root root	Access dmart str. dmart- dmart, dmart str., dmart str., dmart str., dmart str., dmart str., dmart str., dmart str.,		<pre>> SSH session to root@192.168.75.88 SSH compression : / SSH compression : // SSH compression : //</pre>

Configuration - Operations - Status - Inte	ations - Support - 2 [*] Standald	one 🔽 🛃 🔹
Sanity Check Failing		
odates keep your Private Cloud device up	o date.	Download amp-sync
	Check Update ISO	
ontent	ecking ISO for updates	
Client Definitions, DFC, Tetra Content Version	🔹 Upda	ate Content
ABSENT Protect DB Version	Import a Protect DB snapshot to you	ur standalone device
Checked 9 minutes ago; the update check failed.		
oftware		
3.2.0_202010082118	• Upda	ate Software
Finale Globa Solivare Version		

在本例中,我首先继续更新内容

cisco AMP for Endpoints Private Cloud Administration Portal	Announcements ? Help 🕞 Logout
Configuration • Operations • Status • Integrations • Sup	port - Standalone
Sanity Check Failing	
Updates keep your Private Cloud device up to date.	Lownload amp-sync
Check Update	ISO
Content	
3.2.0_202010081917 Client Definitions, DFC, Tetra Content Version	Update Content
Protect DB Version	 ISO contains Protect DB snapshot version 20210531-0613. Import a Protect DB snapshot to your standalone device.
A content update is available.	
Software	
3.2.0_202010082118 Private Cloud Software Version	Update Software
A software update is available.	

然后选择Import Protect DB。

CISCO AMP for Endpoints Private Cloud Administration Port	al Announcements ? Help & Logout
Configuration • Operations • Status • Integrations •	Support - Standalone 📂 🛃 -
Sanity Check Failing	
Updates keep your Private Cloud device up to date.	▲ Download amp-sync
Check	Update ISO
Content	
Client Definitions, DFC, Tetra Content Version	Update Content Multiple Content
Protect DB Version	Import a Protect DB snapshot to your standalone device.
Checked less than a minute ago; content is up to date.	
Software	
3.2.0_202010082118 Private Cloud Software Version	Update Software
A software update is available.	

您可以看到这是另一个很长的过程,可能需要很长时间才能完成。

Home / Operations - Update Device / Protect DB Import Details

Protect DB importing

The device is currently importing a Protect DB snapshot. This process can take several hours.

state	🛗 Started	🋗 Finished	O Duration
Running	2021-11-07 18:48:44 +0000 less than a minute ago	O Please wait	O Please wait
≣ Output			
Attempting to mount an mount: special device / Starting update.	ISO, if one is present. dev/cdrom does not exist		
Stopping apply-cloud-de Stopping authentication Stopping authentication	Itas _web _worker		

Protect DB importing

State			🛗 Start	ed		🛗 Finished	O Duration	
	Running		2021-11 42 minut	-07 18:48:4 es ago	4 +0000	O Please wait	O Please wait	
≣ Output								
EXCLOCACCION	14.200 at	0.0007	s eca.	9.29.03	ova 1	1		
Extraction	14.9GB at	6.6MB/	s eta:	9:28:21	6% [==	1		
Extraction	14.9GB at	6.6MB/	s eta:	9:28:27	6% [==			
Extraction	14.9GB at	6.5MB/	s eta:	9:28:40	6% [==	1		
Extraction	14.9GB at	6.5MB/	s eta:	9:28:46	6% [==	1		
Extraction	14.9GB at	6.5MB/	s eta:	9:28:58	6% [== 🚽	, , , , , , , , , , , , , , , , , , , ,	7	
Extraction	14.9GB at	6.5MB/	s eta:	9:29:12	6% [==	1		
Extraction	14.9GB at	6.5MB/	s eta:	9:29:26	6% [==]		
Extraction	15.0GB at	6.5MB/	s eta:	9:28:56	6% [==	1		
Extraction	15.0GB at	6.6MB/	s eta:	9:28:20	6% [==]		
Extraction	15.0GB at	6.6MB/	s eta:	9:28:28	6% [==]		
Extraction	15.0GB at	6.5MB/	s eta:	9:28:44	6% [==	1		
Extraction	15.0GB at	6.5MB/	s eta:	9:28:51	6% [==	1		
Extraction	15.0GB at	6.5MB/	s eta:	9:28:48	6% [==]		
Extraction	15.0GB at	6.5MB/	s eta:	9:28:56	6% [==	1		
Extraction	15.0GB at	6.5MB/	s eta:	9:29:10	6% [==	1		
Extraction	15.0GB at	6.5MB/	s eta:	9:29:23	6% [==	1		

Protect DB importing

The device is currently importing a Protect DB snapshot. This process can take several hours.

State	🛗 Started	∰ Finished	 Duration
► Running	2021-11-19 17:04:05 +0000 about 20 hours ago	O Please wait	O Please wait
■ Output			
Extraction 233.26B at 4.2 Extraction 233.26B at 4.2 Extraction 233.26B at 4.2	MB/s eta: 0:00:02 95% [MB/s eta: 0:00:00 99% [======= MB/s eta: 0:00:00 100% [=======		ŕ
Snapshot Version 3 Going to drop disposition tab Dropping detections table.	les.		
Dropping binaries table. Dropping binaries_detections Dropping samples table.	table.		
Dropping publishers table. Dropping cas table.			
Dropping certificates table. Dropping cert_fingerprints ta Recreating Protect DB tables	ble. from the schema in the snapshot.		
Importing Protect DB data (th Importing detections table (t	is may take some time). his may take some time).		
importing binaries table (thi	s may take some time).		

在这里,您可以找到两个问题。由于3.5.2之前的vPC无法安装外部NFS存储,因此您必须将更新 ISO文件上传到/data/temp目录。就我而言,由于我的Datastore只有1TB,我用尽了房间,VM崩溃 了。换句话说,您至少需要2 TB的数据存储空间才能成功部署低于3.5.2版的AirGap VPC

以下映像来自ESXi服务器,它显示当您尝试启动VM时HDD上没有更多可用空间这一错误。通过将 128 GB RAM临时切换到64 GB,我可以从此错误中恢复。然后我又能重新开始了。另请注意,如 果您将此VM调配为瘦客户端,则瘦客户端部署的缺点是磁盘大小可以增加,但即使您释放一些空间 ,磁盘大小也不会缩小。换句话说,假设您将300GB文件上传到vPC的目录,然后将其删除。 ESXi中的磁盘仍然显示硬盘上的空间减少300GB

e: error User: root Time: 11/15/2021 12:24:43 PM Target: AMP-vPC AirGap Icription: @	
1 11 12/2021 12:27:75 PM, Citol message on <u>America Andap</u> on <u>Deste</u> in <u>Inducate Center</u> , named to power on Mil	
r Stack: Hide Failed to power on VM. Could not power on virtual machine: msg.vmk.status.VMK_NO_SPACE. Failed to extend the virtual machine swap file Current swap file size is 0 KB. Failed to extend swap file from 0 KB to 13421778 KB. File systemspecific implementation of LookupAndOpen[file]failed File systemspecific implementation of Lookupfile]failed	
ated Events: Show	

问题#2 — 旧更新

第2^{个问题}是,如果您先运行软件更新,就像我在第2^次试运行中执行的操作一样,从3.2.0开始,我 最终使用VPC升级到3.5.2,因此,由于3.2.0版本因我不再使用原始3.2.0版本而变得无效,我不得 不下载全新的ISO更新文件。



如果您尝试再次安装ISO更新文件,则会看到此错误。

cisco AMP for Endpoints	Private Cloud Administration Portal	Announcements ? Help 🕞 Logout		
Configuration - Operations -	Status • Integrations • Support •	🖌 Standalone 📁 👱 👻		
Maintenance Mode	Sanity Check Failing	Disabling TLS 1.0/1.1		

Home / Operations - Update Device / Update Check Details

O The update check failed

Something went wrong while checking for updates.

	Started	🛗 Finished	 Duration
× Failed	2021-11-16 16:29:23 +0000 less than a minute ago	2021-11-16 16:29:30 +0000 less than a minute ago	less than a minute
≣ Output			
Attempting to mount a Starting update check http://127.0.0.1:808 Trying other mirror. To address this issue	an ISO, if one is present. k. Ø/PrivateCloud/3.5.3/prod/repodata/repomd e please refer to the below wiki article	.xml: [Errno 14] HTTP Error 404 - No	ot Found
https://wiki.centos.	org/yum-errors		
https://wiki.centos.	org/yum-errors sn't help to resolve this issue please us	e https://bugs.centos.org/.	
https://wiki.centos.d If above article doe One of the configury and yum doesn't hav safe thing yum can	org/yum-errors sn't help to resolve this issue please us ed repositories failed (FireAMP PrivateCl e enough cached data to continue. At this do is fail. There are a few ways to work	e https://bugs.centos.org/. oud Repository), point the only "fix" this:	
https://wiki.centos. If above article doe: One of the configure and yum doesn't have safe thing yum can	org/yum-errors sn't help to resolve this issue please us ed repositories failed (FireAMP PrivateCl e enough cached data to continue. At this do is fail. There are a few ways to work	oud Repository), point the only "fix" this:	

此图片显示了如何将更新映像装载到VPC的备用方法。在3.5.x版本中,您可以使用远程位置(如 NFS存储)与VPC共享更新文件。

TLS 1.0/1.1	s 2	• HELP	
Announcemen	s 2	• HELP	
Announcemen	s 2	€ HELP	
Announcemen	s 2		
Announcemen	s ?		
Announcemen	s 9		
Announcemen	s 9		
Announcemen	< 2		
Announcemen	\$ 2	Laba	
		Heip	G La
₽ [®] Stan	dalone		1
iguration sa	ved.		
			O HELP

Updates keep your Private Cloud device up to date.

	Check Update ISO	
Content		
3 .5.2_202110122340		Update Content
		Import Protect DB
Protect DB Version	SISO contains Pro	tect DB snapshot version 20210531-0613.
A content update is available.	Import a Prote	ect DB snapshot to your standalone device.
Software		
3.5.2_202110130433 Private Cloud Software Version		Update Software
6 A software update is available.		

Download amp-sync

"健全性检查失败"与"保护DB当前在VPC上不可用"相关



Protect DB importing

The device is currently importing a Protect DB snapshot. This process can take several hours.

state	🛗 Started	🛗 Finished	 Duration
► Running	2021-11-19 17:04:05 +0000 about 20 hours ago	O Please wait	O Please wait
≡ Output			
Extraction 233.200 at 4.20 Extraction 233.208 at 4.20 Extraction 233.208 at 4.20 Snapshot Version 3	B/s eta: 0:00:00 99% [===== B/s eta: 0:00:00 100% [=====]]	
Going to drop disposition tabl Dropping detections table. Dropping binaries table.	es.		
Dropping binaries_detections t Dropping samples table. Dropping publishers table.	able.		
Dropping cas table. Dropping certificates table. Dropping cert_fingerprints tab	le.		
Recreating Protect DB tables f Importing Protect DB data (thi Importing detections table (th	rom the schema in the snapshot. s may take some time). is may take some time).		
Importing binaries table (this	may take some time).		



Protect DB imported successfully

A Protect DB snapshot was successfully imported.

✓ Successful				
	2021-11-19 17:04:05 +0000 about 1 month ago	2021-12-21 01:08:11 +0000 less than a minute ago	about 1 month	
≣ Output				
star ting Tirenose_cassanura				
Starting firehose_cassandra	_replay			
Starting firehose_publisher				
Starting firehose_publisher	_replay			
Starting install-token-api.	••			
Starting mgmt_unicorn				
Starting mongo_event_consum	er			
Starting portal_unicorn				
Starting redis				
Starting retro-dipper				
Starting retrohose				
Starting retrohose-replay				
Starting tevent_listener				
Starting crond				
Starting flight				
Starting docker				
Conding notification (this	may take some time).			

下一次更新自动开始



Importing Protect DB deltas.

Your Protect DB is being updated with threat intelligence that was queued during a previous content update. Each delta can take several hours to import, and system performance might be impacted during this time.

You should run content updates at the end of the business day or week to ensure updates are applied outside of peak use.



在导入保护数据库这一非常漫长的过程之后,您可以移动并更新客户端定义和软件,大约需要3个多 小时。



Content updated successfully

The device successfully performed a content update.

State	🛗 Started	🛗 Finished	 O Duration 	
✓ Successful	2021-12-21 03:10:11 +0000 28 minutes ago	2021-12-21 03:37:53 +0000 less than a minute ago	28 minutes	
			200	
Attempting to mount an I	SO, if one is present.			*
PASS: The mount point /	has sufficient space available: 23273	3033728 >= 100000000		
PASS: The mount point /	has sufficient inodes available: 2018	3323 >= 100000		
All checks succeeded!				
Repodata is over 2 weeks	old. Install yum-cron? Or run: yum m	nakecache fast		
Error: No matching Packa	ges to list			
Resolving Dependencies				
> Running transaction	check			
> Package AMP-Private	Cloud-content.x86_64 0:3.5.2_20211012	22340-0 will be updated		
> Package AMP-Private	Cloud-content.x86_64 0:20211117234515	5-0 will be an update		
> Package fireamp-amp	-exprev-classifier.x86_64 0:3.4.0-0.1	la64 will be updated		
> Package fireamp-amp	-exprev-classifier.x86_64 0:3.4.0-0.1	la76 will be an update		
> Package fireamp-apd	e-signatures.x86_64 0:935-1 will be ι	updated		
> Package fireamp-apd	e-signatures.x86_64 0:1052-1 will be	an update		
> Package fireamp-cla	mav-definitions.x86_64 0:1634076372-7	7 will be updated		
> Package fireamp-cla	mav-definitions.x86_64 0:1637186573-7	7 will be an update		-
· Bashasa fissana fis	JE CA 0.1634036300 00	6J.E.J		
	± Do	wnload Output		

最后,请注意,此过程将需要很长时间。

对于VPC设备,请访问包含如何更新HW设备、安装ISO文件以及从USB引导的其他方法的TZ。

https://www.cisco.com/c/en/us/support/docs/security/amp-virtual-private-cloud-appliance/217134upgrade-procedure-for-airgapped-amp-priv.html#anc5

仅《《AIRGAP》》《

基本故障排除

您可能遇到的第一个问题是,如果您的DNS服务器未建立,并且所有FQDN均未正确记录和解析。 当您尝试通过安全终端"fire"图标导航到安全终端控制台时,问题可能如下所示。 如果只使用IP地址 ,则它有效,但无法下载连接器。如下面的第^三张图。



如果您如图所示修改本地计算机上的HOSTS文件,则解决了此问题,并最终出现错误。

🕂 🔿 👻 🛧 📕 > This	PC > Local Disk (C:) > Windows > Sy	/stem32 > drivers > etc 🚄			losts.txt - Notepad	- 0	>
 Issue CERT Sue DNS Server OneDrive This PC BACKUP (E) Backup Video-A Citico Stuff Documents GO-Pro Pictures KING16 (G:) MEDIA (D:) Backup Program 	Name ^	Date modified 2/26/2021 2:20 AM 12/7/2019 4:12 AM 7/16/2016 7:45 AM 7/16/2016 7:45 AM 7/16/2016 7:45 AM	Type 5 File SAM File File File File	Size 2 KB 4 KB 1 KK 2 KB 18 KB	<pre>File Edit Format View Help # The IP address and the host name should be separated by at least one # space. # Additionally, comments (such as these) may be inserted on individual # lines or following the machine name denoted by a '#' symbol. # For example: # # 102.54.94.97 rhino.acme.com # source server # 38.25.63.10 x.acme.com # x client host # localhost name resolution is handled within DNS itself. # 127.0.0.1 localhost 192.168.75.93 vpc-authentication.cyberworld.local 192.168.75.93 vpc-dispositione.cyberworld.local 192.168.75.93 vpc-disposition.cyberworld.local 193.168.75.93</pre>		
Cisco Stuff					192.168.75.93 vpc-fmc.cyberworld.local		1
Documents							

尝试下载安全终端连接器安装程序时收到此错误。

AMP for Endpoints	۲	? Roman Valenta ~
Dashboard Analysis - Outbreak Control - Management - Accounts -	Search	Q
8 A failure has occurred downloading an installer. Please contact support.		×

Protect	~
	Protect

经过一些故障排除后,唯一正确的解决方案是设置DNS服务器。

DNS Resolution Console: nslookup vPC-Console.cyberworld.local (Returned 1, start 2021-03-02 15:43:00 +0

Server: 8.8.8.x Address: 8.8.8.x#53

** server can't find vPC-Console.cyberworld.local: NXDOMAIN

在DNS服务器中记录所有FQDN并将虚拟私有云中的记录从公共DNS更改为DNS服务器后,一切都 会按预期开始工作。

_											
*	Configuration - Op	erations - Sta	itus 🕶	Integrations -	Support +					-	
on	Device Summary Change Password	; network s	etting	gs.							
dm	Cisco Cloud							eth0/	00:0C:29:	A6:4A	:11
1	Network							IP Assign	nent 1921	68 75	92
	Date and Time							in Abbright	Mo	ro dot	aile
	Certificate Authorities								IVIO	re uela	alls
	Proxy										
nter	Notifications							eth1 / (00:0C:29:	A6:4A	:18
-	License										
	Email							IP Assignn	nent 192.1	68.75	.93
	Backup								Mo	re deta	ails
-	SSH										
	Syslog					IP Ass	ignment	Static			~
	Updates					IP Address	192.168.	75.93			
	Services						Check	for IP Addres	s conflicts		
					Su	ubnet Mask	255.255.2	255.0			
						0-1					=
						Galeway	192.108.	10.1			

Warning: Address and Hostname Changes

If you change the IP address of the interface you must also update the DNS records for each of your configured hostnames to point to the new address. AMP for Endpoints Connectors will expect services to be available at the original DNS names assigned to them.

View the Configuration help page for a list of affected services.

DNS Server	192.168.75.4		-		
• AMP for Endpoints	rivate Cloud Administration Portal	Support	Announcements	? Help	C+ Logout
Configuration • Operations • S	Status • Integrations • Support •			-	•
Configuration Changed	Configuration saved.				
Configuration changes do not take effect until reconfiguration is performed.					
Reconfigure Now					

Configuration -	Operations • Status • Integrations •	Support -	1
Home / Operations - Apply	Configuration / Details		
State	🛗 Started	🛗 Finished	 Duration
► Running	Sun Apr 11 2021 20:19:00 GMT-0400 (Eastern Daylight Time) 0 day, 0 hour, 1 minute, 45 seconds ago	⑦ Please wait	⑦ Please wait
2021-04-12T00:20:43+00 2021-04-12T00:20:43+00	:00] DEBUG: Found current_uid == nil, so w :00] INFO: file[/tmp/cqlsh_check_superuser	e are creating a new file, _password.cql] owner chang	updating owner ed to 4015

此时,您可以登录并下载连接器



您将获得适用于您的环境的初始安全终端策略向导。它会引导您选择您使用的防病毒产品(如果有)以及代理(如果有的话),并引导您选择要部署的策略类型。根据连接器的操作系统选择相应的 "设置……"按钮。

您将看到"现有安全产品"页面,如图所示。选择您使用的安全产品。它会自动生成适用的例外项 ,以防止您的终端出现性能问题。选择"下一步"。

AMP for Endpoints Private Cloud 🗛 🗙 🔥 Dashboard	× +		- 0 >
← → C û 🛛 🛛 kttps://vpc2-cons	olı 'dashboard/fresh		III\ 🗊 🔹 :
AMP for Endpoints		• ?	Roman Valenta ~
Dashboard Analysis V Outbreak Control V Mana	agement ~ Accounts ~	Search	Q
Cisco - rvalenta Dashboard Inbox Overview Events Getting Started	Demo Compu	ters	
 View Online Help Download Cisco AMP for Endpoints User Guide Download Cisco AMP for Endpoints Deployment Strate Deploy AMP for Endpoints Connectors 	WannaCry Click h The WannaCry attac (Server Message Bid compromise, the att identified by AMP fo later by AMP Cloud	ere to view PDF k involves a remote compromise throug ock) service using the ETERNALBLUE ex acker drops the WannaCry ransomware r Endpoints using ransomware indicator signatures.	h the Windows SMB ploit. Upon system variant that is initially s of compromise, and
Set Up Windows Connector	SFEicar Click here Learn how Indication	to view PDF as of Compromise can alert you to poter	ntial malware

Set Up Mac Connector

∆ Set Up Linux Connector

Demo Data

Demo Data allows you to see how Cisco AMP for Endpoints works by populating your Console with replayed data from actual malware infections. Enabling Demo Data will add computers and events to your Cisco AMP for Endpoints Console so you can see how the Dashboard, File Trajectory, Device Trajectory, Threat Root Cause, and Detections and Events displays behave when malware is detected. Demo Data can coexist with live data from your Cisco AMP for Endpoints deployment, however, because of the severity of some of the Demo Data

下载连接器。

problems and how to determine their effects in Device Trajectory.

ZAccess Click here to view PDF

Use Device Trajectory to watch a rootkit exploit privilege escalation on a computer, and use File Trajectory to discover which other endpoints have been compromised.

ZBot Click here to view PDF

See how a vulnerable version of Internet Explorer can expose you to malware. Use Device Trajectory to learn what happened and use application blocking lists to stop the future execution of vulnerable programs.

CozyDuke Click here to view PDF

Trace a detection back to an abused DLL search path, block any communications to its upstream CnC, and deploy an Endpoint IOC to contain further attacks.



问题#2 — 根CA的问题

您可能会面临的下一个问题是,如果您使用自己的内部证书,则首次安装后,连接器可能会显示为 disconnected。

Settings						-	· 🗆	×
<u>.</u>	Network Conr	nections					-	
🔅 Hoi	$\rightarrow \cdot \uparrow$	😰 « Networ	k and Internet 🔺 N	letwork Connections		v ♂ Search	Network Conne	ctions 🔎
Find a	Organize 🔻	Disable this r	Fthemet0 Statu	nerties		× tion »		
		Ethernet0	Internet Prot	ocol Version 4 (TCP/IP	v4) Properties	×		
Network	- and	Intel(R) 82574	General					
🕭 Sta			You can get this capabili for the app	t IP settings assigned au ty. Otherwise, you nee ropriate IP settings.	utomatically if your netwo d to ask your network ad	rk supports ninistrator		
記 Eth			⊖ Obtair	an IP address automat e following IP address:	ically			
🕾 Dia			IP addre	ss:	192 . 168 . 75 .	59		
			Subnet n	nask:	255 . 255 . 255 .	0		
∞ VP			Default <u>c</u>	ateway:	192.168.75.	1		
(Dat			Obtair	DNS server address au	tomatically			
U Dai			• Use th	e following DNS server	addresses:			
🕀 Pro			Preferre	DNS server:	192.168.75.	4		
			Alternate	2 DNS server:				
			U Valida	te settings upon exit	А	dvanced		
					ОК	Cancel		

安装连接器后,安全终端会被视为已断开连接。运行诊断捆绑包并查看日志,您可以确定问题。

	Cisco AMP for Endpoints Scan Now History Settings
	Status: Disconnected Scanned: Never Policy: Protect Isolation: Not Isolated Isolation: Not Isolated
Ask me anything	실 🖸 🤁 📻 💼 🐋 🍪 🖭 황남 유 ^ 왕 문 🔩 9:11 PM

根据从诊断包收集的输出,您可以看到根CA错误

(804765, +0 ms) Mar 06 00:47:07 [8876]: [http_client.c@1011]: GET request https://vPC-Console.cyberworl (804765, +0 ms) Mar 06 00:47:07 [8876]: [http_client.c@1051]: async request failed (SSL peer certificat (804765, +0 ms) Mar 06 00:47:07 [8876]: [http_client.c@1074]: response failed with code 60

		General Details Certification Path	
	Cisco AMP for Endpoints	Certificate Information	
	Scan Now	install this certificate in the Trusted Root Certification Authorities store.	
	Settings		
	Status: Disconnected Scanned: Never Policy: Protect Isolation: Not Isolated	Issued to: AMP-vPC Issued by: AMP-vPC	
	ریانیان cisco <u>About</u>	Valid from 4/9/2021 to 4/9/2031	
A Carlot	A.	Install Certificate Issuer Statement	
		ОК	

将根CA上传到受信任的根CA存储并重新启动安全终端服务后。一切如预期开始工作。

AMP-vPC		← 😺 Certificate Import Wizard
	Cisco AMP for Endpoints	Welcome to the Certificate Import Wizard
	Scan Now	This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.
	Settings	A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are keot.
	Status: Disconnected Scanned: Never Policy: Protect Isolation: Not Isolated	Store Location O Current User
		Next Cancel
		Sext Cancel

AMP-vPC		← 🔗 Certificate Import Wizard	
	Cisco AMP for Endpoints	Certificate Store Certificate stores are system areas where certificates are ke	pt.
	Scan Now	N	
	History	Windows can automatically select a certificate store, or you the certificate.	can specify a location for
	Settings	 Automatically select the certificate store based on the Place all certificates in the following store 	type of certificate
	Status: Disconnected Scanned: Never Policy: Protect Isolation: Not Isolated	Select Certificate Store X Select the certificate store you want to use.	Browse
	cisco About	Personal	_
		Trusted Publishers Intermediate Certification Authorities Trusted Publishers Intermediate Certificates	
		Show physical stores	
		OK Cancel	Next Cancel

AMP-vPC		←
	Cisco AMP for Endpoints	Completing the Certificate Import Wizard
	Scan Now	The certificate will be imported after you click Finish.
	History	You have specified the following settings:
	Settings	Certificate Store Selected by User Trusted Root Certification Authorities Content Certificate
	Status: Disconnected Scanned: Never Policy: Protect Isolation: Not Isolated	
	cisco About	
		Einich Cancel

AMP-vPC		General Details Certification Path	
	Cisco AMP for Endpoints	Certificate Informatio	n
	Scan Now	This CA Root certificate is no install this certificate in the T Authorities store.	t trusted. To enable trust, rusted Root Certification
	History		Certificate Import Wizard X
	Settings		The import was successful
	Status: Disconnected Scanned: Never Policy: Protect Isolation: Not Isolated	Issued to: AMP-vPC Issued by: AMP-vPC	
	cisco About	Valid from 4/9/2021 to	4/9/2031
	ALC: Y	Insta	all Certificate Issuer Statement

Cisc	o AMP for Endpoints	Name	PID 0 4928 0	Description Connected Devices Platform User Se Connected Devices Platform User Se	Status Stopped Running	Group UnistackSvcGr UnistackSvcGr
	Scan Now	CertPropSvc	2216 0	Certificate Propagation	Running	netsvcs
	History	CiscoAMP_7.3.1 CiscoSCMS_7.3.1	Start	ity Connector Monitorin	Running -	
	Settings	ClipSVC	Stop 🔫	se Service (ClipSVC)	Running	wsappx
*	Status: Disconnected Scanned: Never Policy: Protect	COMSysApp CoreMessagingRegist CryptSvc CscService DcomLaunch	Open Service: Search online Go to details	em Application jing hic Services er Process Launcher	Stopped Running Running Stopped Running	LocalServiceN NetworkService LocalSystemN DcomLaunch
	Isolation: Not Isolated	defragsvc	pen Services	Optimize drives	Stopped	defragsvc

退回安全终端服务连接器后,连接器将如预期一样联机。

				prinsiony	startop oscis occars		
Ciere	a AMD for Ende	ointo	Name	PID	Description	Status	Group
CISC	O AIVIP TOT ETIOP	omis	CDPUserSvc		Connected Devices Platform User Se	Stopped	UnistackSvcGr
			CDPUserSvc_105b22	4928	Connected Devices Platform User Se	Running	UnistackSvcGr
	Scan Now		CertPropSvc	2216	Certificate Propagation	Running	netsvcs
	History		CiscoAMP_7.3.1	1288	Cisco AMP for Endpoints Connector	Running	
	ristory		GiscoSCMS_7.3.1	2844	Cisco Security Connector Monitorin	Running	
	Settings		ClipSVC	5248	Client License Service (ClipSVC)	Running	wsappx
			COMSysApp		COM+ System Application	Stopped	
	2.5	1	CoreMessagingRegistrar	2384	CoreMessaging	Running	LocalServiceN
	Status: Connected		CryptSvc	2576	Cryptographic Services	Running	NetworkService
	Scanned: Never		SecService Service		Offline Files	Stopped	LocalSystemN
	Folicy: Protect		G DcomLaunch	880	DCOM Server Process Launcher	Running	DcomLaunch
	Isolation. Not isolated		G defragsvc		Optimize drives	Stopped	defragsvc
	cisco	About	🔗 Fewer details 🍓 Open	Services			

) → C ^I f f https://vpc2-console	lashboard	80%	⊠ ☆	III\ 🗉 🛎	s =
Dashboard Analysis V Outbreak Control V Management V Accounts V			Search	Q	2)
Dashboard					
Refresh All Auto-Refresh V	Reset	w Filter	0 days ~ 2021-03-13 01:43	2021-04-12 01:43 UT	гс
0% compromised (Inbox Status 0 0 Require Attention 0 0 In Progress 0 0 Resolved				
compromises 💿 🗧 Inbox	Quarantined Detections	1) Quarantine Events	Vulnerabilities	Vie	PW
op 🖓 0/1	Тор	Q 0/1	Тор	Q 0/1	1
Protect	Protect		Threat Grid Analysis 0 Automatic Analysis Submi 0 Retroactive Threat Detecti	; ssions ons	
			Statistics 0 Files Scanned 0 Network Connections Log	ged	
3 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 APR	13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 MAR	2 3 4 5 6 7 8 9 10 11 12	Connectors		٦.
ignificant Compromise Artifacts 💿	Compromise Event Types		1 Connectors		
No artifacts	No event types		0 Install Failures Quick Start Study Windows Connector A Set Up Mac Connector A Set Up Linux Connector	lor	

经过测试的恶意活动



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。

Cisco Systems, Inc. 对于翻译的准确性不承担任何责任,并建议您总是参考英文原始文档(已提供 链接)。