CX云代理概述v2.2

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简介

本文档介绍思科的客户体验(CX)云代理。思科(CX)云代理是一个高度可扩展的平台,可从客户网络 设备收集遥感勘测数据,为客户提供切实可行的见解。CX云代理支持将主动运行配置数据转换为在 CX云中显示的主动预测型洞察力的人工智能(AI)/机器学习(ML)。

本指南特定于CX云代理v2.2及更高版本。请参阅Cisco CX云代理页面以访问以前的版本。



CX云架构

💊 注:本指南中的图像(及其中的内容)仅供参考。实际内容可能有所不同。

先决条件

CX Cloud Agent 作为虚拟机 (VM) 运行,可以开放式虚拟设备 (OVA) 或虚拟硬盘 (VHD) 的形式进 行下载。

部署要求:

- 以下虚拟机监控程序之一:
 - ◎ VMware ESXi版本5.5或更高版本
 - Oracle Virtual Box 5.2.30或更高版本
 - 。Windows虚拟机监控程序版本2012到2022
- 虚拟机监控程序可以托管需要以下内容的虚拟机:
 - [。] 8 核心 CPU
 - ◎ 16 GB 内存/RAM
 - ◎ 200 GB 磁盘空间
- 对于使用指定美国数据中心作为主要数据区域来存储CX云数据的客户,CX云代理必须能够连接到此处所示的服务器,使用完全限定域名(FQDN),并在TCP端口443上使用HTTPS:
 - FQDN:agent.us.csco.cloud
 - FQDN:ng.acs.agent.us.csco.cloud
 - FQDN:cloudsso.cisco.com
 - FQDN:api-cx.cisco.com
- 对于使用指定欧洲数据中心作为主要数据区域来存储CX云数据的客户:CX云代理必须能够使用FQDN和在TCP端口443上使用HTTPS连接到此处所示的两个服务器:
 - FQDN:agent.us.csco.cloud
 - FQDN:agent.emea.csco.cloud
 - FQDN:ng.acs.agent.emea.csco.cloud
 - FQDN:cloudsso.cisco.com
 - FQDN:api-cx.cisco.com
- 对于使用指定亚太地区数据中心作为主要数据区域来存储CX云数据的客户:CX云代理必须能 够使用FQDN和TCP端口443上的HTTPS连接到此处所示的两个服务器:
 - FQDN:agent.us.csco.cloud
 - FQDN:agent.apjc.csco.cloud
 - FQDN:ng.acs.agent.apjc.csco.cloud
 - FQDN:cloudsso.cisco.com
 - FQDN:api-cx.cisco.com
- 对于使用指定的欧洲和亚太数据中心作为其主要数据区域的客户,仅在初始设置期间向CX云注册CX云代理时需要连接到FQDN:agent.us.csco.cloud。在CX云代理成功注册到CX云后,不再需要此连接。
- 对于CX云代理的本地管理,必须能够访问端口22。
- 下表汇总了必须打开并启用CX云代理才能正常运行的端口和协议:

					Required for both Cisco DNA Center and Other Assets collected by CX Cloud Agent support Mandatory TCP/7 Echo (ICMP) port must be combined with one of the other two ports (for device discovery process)	
CX Cloud Agent Traffic					Mandatory for other assets collected by CX Cloud Agent support	
Source		Destination	Protocol	Port	Purpose	Туре
	IP Address Hostname					
Agent IP	Dynamic IPs Cisco DNA Center Server IP	For All regions, FQDN: cloudsso.cisco.com FQDN: aper-uc.scoc.com QDN: agent.uc.scoc.cloud DNAC Servers Additionally, For Americas region, FQDN: ng.acs.agent.us.csco.cloud For APJC region, FQDN: agent.emea.csco.cloud, and FQDN: ng.acs.agent.emea.csco.cloud For APJC region, FQDN: agent.apjc.csco.cloud, and FQDN: ng.acs.agent.emea.csco.cloud For APJC region, FQDN: agent.apjc.csco.cloud, and FQDN: ng.acs.agent.apjc.csco.cloud	HTTPS	TCP/ 443	Data collection via DNAC servers, Data transfer to CX Cloud, including upgrade functionality	Outbound connection to DNAC servers + Outbound to Cisco AWS regional data centers
Agent IP	Customer Device Agent IP		SNMP	UDP/161	Collect OIDs and MIBs for other assets collected by CX Cloud Agent	Outbound to LAN
Devices			SYSLOG	UDP/514	Stream Syslog messages from Device to Agent	Inbound from LAN
Agent IP	Customer Device		SSH	TCP/22	Collect CLI commands	Outbound to LAN
Agent IP		Customer Device	Echo	TCP/7	Check the device reachability	Outbound to LAN
Agent IP		Customer Device	Telnet	TCP/23	Collect CLI commands	Outbound to LAN
		Agent Administration Access				
Support VM		Agent IP	SSH	TCP/22	Agent Maintenance	Inbound from LAN

其他附注:

- 如果在VM环境中启用了动态主机配置协议(DHCP),则自动检测到IP;否则,必须提供空闲 IPv4地址、子网掩码、默认网关IP地址和域名服务(DNS)服务器IP地址
- ・ 仅支持IPv4
- 经认证的单节点和高可用性(HA)集群Cisco DNA Center版本为2.1.2.x到2.2.3.x、2.3.3.x、2.3.5.x和Cisco Catalyst Center虚拟设备和Cisco DNA Center虚拟设备
- 如果网络具有SSL拦截,则允许列表CX云代理的IP地址
- 对于所有直接连接的资产,需要15级SSH权限
- 仅使用提供的主机名;不应使用静态IP地址

关键域访问

要开始 CX Cloud 之旅,用户需要以下域的访问权限。仅使用提供的主机名;请勿使用静态IP地址 。

特定于CX云代理门户的域

主要域	其他域
cisco.com	mixpanel.com
csco.cloud	cloudfront.net
	eum-appdynamics.com
anlit ia	appdynamics.com
Split.io	tiqcdn.com
	jquery.com

特定于CX云代理OVA的域

美洲地区	欧洲、中东和非洲	亚太地区
cloudsso.cisco.com	cloudsso.cisco.com	cloudsso.cisco.com
api-cx.cisco.com	api-cx.cisco.com	api-cx.cisco.com

agent.us.csco.cloud	agent.us.csco.cloud	agent.us.csco.cloud
	agent.emea.csco.cloud	agent.apjc.csco.cloud
ng.acs.agent.us.csco.cioud	ng.acs.agent.emea.csco.cloud	ng.acs.agent.apjc.csco.cloud

S 注意:必须在端口443上为指定FQDN启用重定向的情况下允许出站访问。

Cisco DNA Center支持的版本

支持的单节点和高可用性集群Cisco DNA Center版本为2.1.2.x到2.2.3.x、2.3.3.x、2.3.5.x和Cisco Catalyst Center虚拟设备和Cisco DNA Center虚拟设备。



多节点 HA 集群 Cisco DNA Center

支持的浏览器

为在Cisco.com上获得最佳体验,建议使用以下浏览器的最新正式版本:

- Google Chrome
- Microsoft Edge
- Mozilla Firefox

支持的产品列表

要查看CX云代理支持的产品列表,请参阅<u>支持的产品列表</u>。

连接数据源

要连接数据源:

1. <u>单击cx.cisco.com</u>登录到CX云。

cisco CX Clou	id			Search	🗠 🌢 کې 🗉 کې
💮 My Portfolio: Se	elect 🕶				
Today	Assets & Coverage 90% covered	Adoption Lifecycle 41% adopted	Advisories Cases 3 active 1101 open		
Telemetry Not Connected 5697	Last Date of Support 123	Telemetry Not Con 5697 Assets with Teleme	nected try Not Connected		View All Details 📃 🛛 🗄
Contracts Expiring	Less than 6 months Critical Faults	Asset Name _	Product ID CS-DESKPRO-K9	Product Type -	Location FREMONT CA USA
3 Less than 6 months	O Last 7 days	01027472485	CS-DESKPRO-K9	Collaboration Endpoints	FREMONT,CA,USA
Crashed Assets	High Crash Risk Assets	03073621595	C9407R C9407R	Switches	FREMONT,CA,USA
		03073621735	C9407R C9407R	Switches	FREMONT,CA,USA
Advisories	584	03073621875	C9407R C9407R	Switches	FREMONT,CA,USA

CX云主页

2. 选择管理员设置图标。Data Sources窗口打开。

cisco CX Cloud			Search	۹ 🖩 💿	۵ 💿 🔺
< Back	Data Sources Data Storage Region	n:United States			
Asset Groups	Search data sources Q				Add Data Source
👌 Identity & Access	5 data sources				
Partner Access	Name	Туре	Data Last Updated	Status	
Data Sources	Contract	Covered Assets	82 days ago	Last collection succeeded	
0] Insights	Cloud Network	Intersight	-	First collection pending	
	Data Center Compute	Intersight		First collection pending	
	Meraki	Meraki	33 days ago	Collection completed	
	Collaboration	Webex	2 days ago	Last collection succeeded	

数据源

3. 单击添加数据源。Add Data Source窗口打开。 显示的选项可能因客户订用而异。

Add Data Source

Search data	a sources	Q
	Cisco DNA Center Uses CX Cloud Agent to support the Success Tracks for Campus Network and WAN (supported asset types)	Add Data Source
Ţ	Contracts Supports all Success Tracks and offers	Add Data Source
0	Intersight Supports the Data Center Compute and Cloud Network Success Tracks	Add Data Source
	Other Assets Uses CX Cloud Agent to support Success Tracks	Add Data Source
	Smart Accounts Supports licensing	Add Data Source
00	Webex Supports the Success Track for Collaboration	Add Data Source
2	Cisco Catalyst SD-WAN Manager Supports the Success Track for WAN	Add Data Source

添加数据源

4. 单击Add Data Source以选择适用的数据源。如果之前未设置CX云代理,则会打开<u>设置CX云</u> <u>代理</u>窗口,其中必须完成设置。如果设置完成,则连接继续。请参阅以下章节之一以继续:

<u>设置CX云代理</u>

<u>添加思科DNA中心作为数据源</u>

添加其他资产作为数据源

✤ 注意:只有在以前未配置直接设备连接的情况下,Other Assets选项才可用。

设置CX云代理

如果之前未完成过CX云代理设置,则在连接数据源时提示进行设置。

要设置CX云代理,请执行以下操作:



审核部署要求

- 1. 查看Review deployment requirements并选择I set up this configuration on port 443复选框。
- 2. 单击 Continue。"设置CX云代理 接受强加密协议"窗口打开。

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Derivitival mage Fiel Derivitival Machine Control Control Control Control Control Control Control Control Control Control Control Control Control	ong churypeon Agreenen.	1. Ensure the address listed in your Cisco.co	om User Profile is correct and complete.	
First Name Last Name Simuel Deckard Last Name Deckard Correction Correction Correction Correct	Image File d Pair with Virtual Machine	2. Read each of the conditions below carefu	Ily prior to selecting your answer.	
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Image: Control of Cont		Samuel	Deckard	
tackar@cisco.com CXSuperAdmin38333	±	Email	Cisco User Id	
Westees Division's Function: • Commercial/Civilian entity Government entity, a Military entity or Defense Contractor If Government entity, a Military entity or Defense Contractor, Are you in Austrial, Australia, Belgium, Canada, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Japan, Latvia, Libiuania, Luxembourg, Maita, Netherlands, New Zealand, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweeden, Switzerland, United Kingdom or the United States. Ves No Confirmation e By checking this field, I hereby certify that I, as a duly authorized representative of the organization, understand and agree to abide by the conditions set forth above regarding the usage of Cisco Systems, Inc. hardware and/or software.		tadeckar@cisco.com	CXSuperAdmin38333	
 Commercial/Civilian entity Government entity, a Military entity or Defense Contractor If Government entity, a Military entity or Defense Contractor, Are you in Austria, Australia, Beiglam, Canada, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Japan, Latvia, Libruania, Luxembourg, Mata, Netherlands, New Zealand, Norway, Potand, Portugal, Siovakia, Slovenia, Spain, Sweden, Switzerland, United Kingdom or the United States. Yes No Confirmation • Confirmation • Continue	O()	Business Division's Function: +		
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If Government entity, a Military entity or Defense Contractor, Are you in Austria, Australia, Belgium, Canada, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Japan, Latvia, Libivania, Luxembourg, Maita, Netherlands, New Zealand, Norway, Potand, Portugal, Siovakia, Slovenia, Spain, Sweeden, Switzerland, United Kingdom or the United States. Ves Ne Confirmation By checking this field, I hereby certify that I, as a duly authorized representative of the organization, understand and agree to abide by the conditions set forth above regarding the usage of Cisco Systems, Inc. hardware and/or software. Continue		 Government entity, a Military entity or Defe 	onse Contractor	
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By checking this field, I hereby certify that I, as a duly authorized representative of the organization, understand and agree to abide by the conditions set forth above regarding the usage of Cisco Systems, Inc. hardware and/or software. Continue		Confirmation .		
Continue		 By checking this field, I hereby certify that abide by the conditions set forth above re 	 a a duly authorized representative of the organization, understand and garding the usage of Cisco Systems, Inc. hardware and/or software. 	agree to
Continue				
		Continue		

0

加密协议

- 3. 验证First Name、Last Name、E-mail和Cisco User Id字段中的预填充信息。
- 4. 选择相应的业务部门的功能。
- 5. 选中确认复选框以同意使用条件。
- 6. 单击 Continue。"设置CX云代理 下载映像文件"窗口打开。



下载映像

- 7. 选择适当的文件格式下载安装所需的映像文件。
- 8. 选中I accept复选框以同意思科最终用户许可协议。
- 9. 单击下载并继续。系统将打开"设置CX云代理 部署并与您的虚拟机"窗口。
- 10. 请参阅网络配置以获取下一部分所需的配对代码。

将 CX Cloud Agent 连接到 CX Cloud

开始遥测收集需要将CX云代理连接到CX云,以便可以更新UI中的信息以显示当前资产和见解。本 节提供完成连接和故障排除指南的详细信息。

要将CX云代理连接到CX云,请执行以下操作:

1. 输入控制台对话框或命令行界面(CLI)中提供的配对代码(通过Agent连接的虚拟机)。

✤ 注:在部署下载的OVA文件后收到配对代码。

SET UP CX CLOUD AGENT 7% Preview Deployment Requirements Accept Strong Encryption Agreement Download Image File Deploy and Pair with Vinual Machine	Set Up CX Cloud Agent		×	O Help
	Set Up CX CLOUD AGENT Proview Deployment Requirements Accept Strong Encryption Agreements Download Image File Deploy and Pair with Votual Machine	<section-header></section-header>	×	

配对代码

2. 单击Continue注册CX云代理。在自动导航到Add Data Sources页之前,Set Up CX Cloud Agent - Registration successful窗口会短暂打开。

~

Set Up CX Cloud Agent		×
SET UP CX CLOUD AGENT 75%	Registration successful!	
Review Deployment Requirements Accept Strong Encryption Agreement Download Image File Deploy and Pair with Virtual Machine		
	Next up: add your data sources	

注册成功

添加Cisco DNA Center作为数据源

当从数据源连接窗口中选择Cisco DNA Center时(请参阅连接数据源部分中的连接数据源图像),将 打开以下窗口:

cisco CX Cloud HIPOPORTAG		Search	۹ 📖	0 1	o <u>a</u> r	-	ep
							Help
							× Q
	Connect to CX Cloud						
	Connect a Cisco DNA Center						
	IP Address or FQDN City		Q				
	Usemame Pasi	word					
	Schedule inventory collection						
	Frequency Time						
	Frequency Time Time Run the first collection now (this may take up to 75 minutes)	/ IST V					
	Connect						

连接到CX云

添加Cisco DNA Center作为数据源的步骤:

1. 输入Cisco DNA Center IP Address或virtual IP Address或FQDN、City(Cisco DNA Center的 位置)、Username和Password。

💊 注:请勿使用单个群集节点IP。

 通过输入频率和时间来指明CX云代理在连接的设备上执行网络扫描和更新信息的频率,从而 安排资产收集。

💊 注意:第一次资产收集可能需要75分钟。

3. 单击 Connect。系统随即会显示Cisco DNA Center IP地址的确认信息。

		O Help
∠ Back To Data Sources		× 🔍
	Connect to CX Cloud	
	Connected	
	Cisco DNA Center 10.122.58.165 Inventory collectori runs every day At 03:00 AM IST First collectori will nei mendidalary after data sources are added	
	Connect souther data source to CV Cloud Anant?	
	+ Add Another Core DNA Control	

已成功连接

4. 单击Add Another Cisco DNA Center、Done或Back to Data Sources以导航回Data Sources窗口。

添加其他资产作为数据源

概述

遥测收集已扩展至非思科DNA中心管理的设备,使客户能够查看来自遥测的见解和分析信息,并与 之交互,从而获得更广泛的设备范围。在初始CX云代理设置后,用户可以选择配置CX云代理以连 接到CX云监控的基础设施中的20个额外的Cisco DNA中心。用户还可以将CX云代理直接连接到其 环境中的其他硬件资产,最多可连接10,000台直接连接的设备。

用户可以通过使用种子文件唯一标识要合并到CX云中的设备,或通过指定IP范围(CX云代理应对 其进行扫描)来标识这些设备。两种方法都依靠简单网络管理协议(SNMP)进行发现(SNMP),依靠 安全外壳(SSH)进行连接。这些必须正确配置才能成功收集遥感勘测数据。

💊 注意:

可以使用种子文件或IP范围。初始设置后无法更改此选择。

💊 注意:

初始种子文件可以替换为另一个种子文件,而初始IP范围可以编辑为新的IP范围。

从数据源连接窗口中选择其他资产时,将打开以下窗口:

Back To Data Sources

Connect to CX Cloud	
How would you like to connect these assets?	
Upload a seed file (recommended)	
Add your devices to a Seed File Template. You can reupload this file later if you need to make changes.	
Provide an IP Address range	
Select any connection method(s). At least one SNMP and SSH are required.	
SNMP v3	
✓ SNMP v2c	
✓ SSH v2	
More	****
These options support legacy products	
SSH v1	
Telnet	

配置与CX云的连接

要添加其他资产作为数据源,请执行以下操作:

- 使用种子文件模板上传种子文件
- 提供IP地址范围

发现协议

基于种子文件的直接设备发现和基于IP范围的发现都依赖SNMP作为发现协议。存在不同版本的 SNMP,但CX云代理支持SNMPV2c和SNMP V3,并且可配置任一或两种版本。用户必须提供相同 的信息(如下面完整详述)才能完成配置并启用SNMP管理的设备与SNMP服务管理器之间的连接 。

SNMPV2c和SNMPV3在安全性和远程配置模型方面有所不同。SNMPV3使用支持SHA加密的增强型加密安全系统来验证消息并确保其隐私。建议在所有公共网络和面向Internet的网络中使用SNMPv3,以防御安全风险和威胁。在CX云上,最好配置SNMPv3而不是SNMPv2c,但缺少内置支持SNMPv3的旧版设备除外。如果两个版本的SNMP均由用户配置,默认情况下,CX云代理将尝试使用SNMPv3与各个设备通信,如果通信无法成功协商,则恢复为SNMPv2c。

连接协议

作为直接设备连接设置的一部分,用户必须指定设备连接协议的详细信息:SSH(或者telnet)。应 使用SSHv2,但个别传统资产缺乏相应内置支持的情况除外。请注意,SSHv1协议包含基本漏洞。 当依赖SSHv1时,如果没有额外的安全性,遥测数据和底层资产可能会因这些漏洞而受到损害。 Telnet也不安全。通过telnet提交的凭证信息(用户名和密码)不加密,因此很容易受到危害,并且 没有额外的安全性。

使用种子文件添加设备

种子文件是逗号分隔值(csv)文件,其中每一行代表系统数据记录。在种子文件中,每个种子文件记录都对应于CX云代理应从中收集遥测的唯一设备。将从要导入的种子文件中捕获每个设备条目的所有错误或信息消息,作为作业日志详细信息的一部分。种子文件中的所有设备都被视为受管设备,即使设备在初始配置时无法访问。如果上传新的种子文件来替换以前的种子文件,上次上传的日期会显示在CX云中。

CX Cloud Agent将尝试连接到设备,但可能无法处理每个设备,以便在无法确定PID或序列号的情况下在"资产"页中显示。种子文件中以分号开头的任何行都会被忽略。种子文件中的标题行以分号 开头,可在创建客户种子文件时保留为(推荐选项)或删除该标题行。

示例种子文件(包括列标题)的格式不得以任何方式更改,这一点非常重要。单击提供的链接以查 看PDF格式的种子文件。此PDF仅供参考,可用于创建需要以.csv格式保存的种子文件。

单击此<u>链接</u>可查看可用于创建.csv格式种子文件的种子文件。

💊 注:此PDF仅供参考,可用于创建需要以.csv格式保存的种子文件。

下表列出了所有必需的种子文件列以及必须包含在每个列中的数据。

种子文件列	列标题/标识符	列的用途
A	IP 地址或主机名	提供设备的有效、唯一的IP地址或主机名。
В	SNMP协议版本	SNMP协议是CX Cloud Agent必需的,用于客 户网络中的设备发现。值可以是snmpv2c或 snmpv3,但出于安全考虑,建议使用 snmpv3。
С	snmpRo:如果col#=3被选为 "snmpv2c",则为必填项	如果为特定设备选择SNMPv2的旧变体,则必 须指定设备SNMP集合的snmpRO(只读)凭 证。否则,条目可以为空。
D	snmpv3UserName:如果 col#=3被选为"snmpv3",则为 必填项	如果选择SNMPv3与特定设备进行通信,则必 须提供各自的登录用户名。
E	snmpv3AuthAlgorithm:值可 以是MD5或SHA	SNMPv3协议允许通过MD5或SHA算法执行身 份验证。如果设备配置了安全身份验证,则必 须提供相应的身份验证算法。注意:MD5被视 为不安全的,应在支持它的所有设备上使用

种子文件列	列标题/标识符	列的用途
		SHA。
F	snmpv3AuthPassword :密码	如果在设备上配置了MD5或SHA加密算法,则 需要为设备访问提供相关身份验证密码。
G	snmpv3PrivAlgorithm:值可以 是DES, 3DES	如果设备配置了SNMPv3隐私算法(此算法用 于加密响应),则需要提供相应的算法。 注意:DES使用的56位密钥太短,无法提供加 密安全性,且支持该密钥的所有设备上都应使 用3DES。
н	snmpv3PrivPassword :密码	如果在设备上配置了SNMPv3隐私算法,则需 要为设备连接提供其各自的隐私密码。
I	snmpv3Engineld:enginelD,表 示设备的唯一ID,如果已在设 备上手动配置,请指定引擎ID	SNMPv3 EngineID是代表每个设备的唯一 ID。在收集CX云代理的SNMP数据集时,会 发送此引擎ID作为参考。如果客户手动配置 EngineID,则需要提供相应的EngineID。
J	cliProtocol:值可以是'telnet'、 'sshv1'、'sshv2'。如果为空 ,则默认设置为"sshv2"	CLI用于直接与设备交互。CX云代理将此协议 用于特定设备的CLI收集。此CLI收集数据用于 CX云中的资产和其他见解报告。建议使用 SSHv2;如果没有其他网络安全措施 ,SSHv1和Telnet协议本身无法提供足够的传 输安全性。
к	cliPort:CLI协议端口号	如果选择了任何CLI协议,则需要提供其各自 的端口号。例如,22表示SSH,23表示 telnet。
L	cliUser:CLI用户名(可以提供 CLI用户名/密码或两者,但两 列(col#=12和col#=13)不能 为空。)	需要提供设备的相应CLI用户名。CX云代理在 CLI收集期间连接到设备时使用此功能。
М	cliPassword:CLI用户密码(可以 提供CLI用户名/密码或两者	需要提供设备的相应CLI密码。CX云代理在 CLI收集期间连接到设备时使用此功能。

种子文件列	列标题/标识符	列的用途
	,但两列(col#=12和 col#=13)不能为空。)	
n	cliEnableUser	如果在设备上配置了"enable",则需要提供设 备的enableUsername值。
0	cliEnablePassword	如果在设备上配置了"enable",则需要提供设 备的enablePassword值。
Р	未来支持(无需输入)	留作将来使用
问	未来支持(无需输入)	留作将来使用
R	未来支持(无需输入)	留作将来使用
S	未来支持(无需输入)	留作将来使用

设备的遥测处理限制

以下是处理设备的遥测数据时的限制:

- 某些设备在收集摘要中可能显示为可访问,但在CX云资产页中不可见。设备检测限制会阻止 此类设备遥测的处理。
- 对于不属于园区成功跟踪一部分的设备,CX云资产页面中的遥测属性可能不准确或丢失。
- 如果种子文件或IP范围集合中的设备也是Cisco DNA Center资产的一部分,则仅针对Cisco DNA Center条目报告一次该设备。不会收集或处理种子文件/ IP范围条目,以避免重复。

使用新的种子文件添加设备

o

要使用新的种子文件添加设备,请执行以下操作:

 使用本文档中的嵌入式链接(请参阅关于种子文件)或通过配置到CX云的连接窗口中的链接下载 种子文件模板(PDF)。

注意:下载初始种子文件后,Configure Connection to CX Cloud窗口中的链接不再可用

Configure connection to CX Cloud

Upload your seed file						×
Download the seed file b	emplate	and add your di	rvice info. Th	en attach the fil	le below.	
	c	Drag and Drop Supports CSV to	o files or br es only. Max file	owse files + size 5 MB.		
Collection Frequency		Time				
Frequency	\sim	Time	\sim	VET	~	
Run the first col Connect The Data Source	lection n	ow (this may tal	ke up to 75 n	ninutes)		

配置连接到CX云窗口

- 2. 打开Excel电子表格(或任何首选电子表格)并输入标题,如模板所示。
- 3. 手动输入数据或将数据导入文件。
- 4. 完成后,将模板另存为.csv文件以将该文件导入CX云代理。

Configure connection to CX Cloud

nextgen_seedfile.csw Completed.					
					Delete
Schedule Inventory Collec	tion				Day
Weekly ~	12:00am	~	VET	~	Sunday
Run the first collection no	ow (this may take up	p to 75 min	utes)		

Upload seed file窗口

- 5. 在Upload your seed文件窗口中,拖放新创建的.csv文件,或单击browse文件并导航至.csv文件。
- 6. 完成Schedule Inventory Collection部分,然后单击Connect。将打开Data Sources窗口,其中显示一条确认消息。
- 7. 在完成CX云的初始配置之前,CX云代理必须通过处理种子文件并与所有确定的设备建立连接 来执行第一次遥测收集。可以按需启动收集,也可以根据此处定义的计划运行收集。用户可以 通过选择立即运行第一个收集复选框,执行第一个遥测连接。根据种子文件中指定的条目数量 和其他因素,此过程可能需要相当长的时间。

alaala cisco	CX Cloud General actions coverage general			Search Q	🔗 Data source added (allow u	p to 10 minutes to appear) 🗙
Г	Data Sources					× •
	Add A Data Source			Search data so	urces Q	
2	5 Total Data Sources					
Access	Name	Type	Data Last Updated	Status		
	CX Cloud Agent	CX Cloud Agent v2.2.0	159 days ago	 Not running 		
Partner	10.127.249.145	Cisco DNA Center	159 days ago	 Not Available 		
Access	Contract	Covered Assets	27 days ago	Last Collection Succeeded		
	Data Center Compute	Intersight		 First Collection Pending 		
Data	Cloud Network	Intersight		 First Collection Pending 		
确认消	息					

使用已修改的种子文件添加设备

要使用当前种子文件添加、修改或删除设备,请执行以下操作:

- 1. 打开先前创建的种子文件,进行所需的更改,然后保存文件。
 - 注意:要将资源添加到种子文件,请将这些资源附加到以前创建的种子文件,然后重新加载文件。这是必要的,因为上传新的种子文件会替换当前的种子文件。仅最新上传的种子文件用于发现和收集。
- 2. 从数据源页中,选择具有CX云代理类型的数据源。将打开一个详细信息窗口,其中包含 Summary和Software选项卡。

Data Storage Region: United States		Re-install
4 1 of 2 > 1 Connect Meraki Dashboard to CX Cloud	to get insights and additional systems in	Summary Software
Add a Data Source		Cisco DNA Centers 10.122.58.165
3 Total Data Sources		Seed File Last Replaced Oct 6, 2022
Name	Туре	Download Report Replace Seed File
CX Cloud Agent	CX Cloud Agent v2.2.0	
10.122.58.165	Cisco DNA Center	
Other assets collected by CX Cloud Agent	Seed file	

- 3. 单击Download Report可生成有关所选数据源的所有资产的报告。报告提供有关设备IP地址、 序列号、可达性、命令类型、命令状态和命令错误的信息(如果适用)。
- 4. 单击替换种子文件。CX Cloud Agent窗口将打开。

cisco	CX Cloud		
	Data Sources Data Storage Region: United States		Running CX Cloud Agent Re-install
2	Connect Meraki Dashboard to CX Cloud to ge Add a Data Source	rt insights and additional systems inforr	Summary Software
Access	5 Total Data Sources		10.197.238.127 Seed File Last Replaced Oct 18, 2022
Access	Name CX Cloud Agent	Type CX Cloud Agent v2.2.0	4
Data Collection	10.197.238.127	Cisco DNA Center	Drag and Drop files or browse files Supports CSV files only. Max file size 5 MB.
ee Data	Cloud Network	Intersight	Cancel Upload
1	Data Center Compute	Intersight	
Insights			

CX云代理窗口

- 5. 将修改的种子文件拖放到窗口中,或浏览到该文件并将其添加到窗口中。
- 6. 单击Upload。

使用IP范围添加设备

IP范围允许用户识别硬件资产,然后根据IP地址从这些设备收集遥感勘测数据。通过指定单个网络级IP范围,可唯一标识遥测收集的设备,CX云代理应使用SNMP协议对其进行扫描。如果选择IP范围来标识直连设备,则所引用的IP地址应尽可能严格,同时允许覆盖所有需要的资产。

- 可以提供特定IP,也可以使用通配符替换IP的八位组以创建范围
- 如果特定IP地址未包含在设置期间识别的IP范围内,CX云代理不会尝试与具有此类IP地址的 设备通信,也不会从此类设备收集遥测数据
- 输入*.*.*允许CX云代理将用户提供的凭证与任何IP一起使用。例如:172.16.*.*允许将凭证 用于172.16.0.0/16子网中的所有设备
- 如果网络或客户群(IB)有任何变更,则可以修改IP范围。请参阅编辑IP范围

CX云代理将尝试连接到设备,但是如果无法确定PID或序列号,则可能无法处理每个设备以在资产 (Assets)视图中显示这些设备。



单击Edit IP Address Range启动按需设备发现。将任何新设备(在指定IP范围之内或之外)添加或删除时,客户必须始终单击Edit IP Address Range(参阅<u>Editing IP Ranges</u>部分)并完成启动按需设备发现所需的步骤,以将任何新添加的设备包含到CX Cloud Agent收集资产中。

< Back To Data Sources						
C DAVA TO DATA SOURCES						
	Connect to CX Cloud					
	Provide IP address range				×	
	Enter IP address range					
	Starting IP Address *		Ending IP /	kddress *		
	198.168.1.10		198.168	1 20		
	Enter SNMP v2c credentials					
	Read Community -					
	Enter SSHV2 credentials					
	Username *		Enable Use	ername (Optional)		
	Schedule inventory collection					
	Frequency	Time				
	Frequency	Time	~	IST V		
	Run the first collection now (this may to	ake up to 75 minutes)				
	Connect					

初始IP地址范围窗口

使用IP范围添加设备要求用户通过配置UI指定所有适用的凭证。显示的字段因在上一个窗口中选择 的协议而异。如果为同一协议选择了多个选项(例如,同时选择SNMPv2c和SNMPv3或同时选择 SSHv2和SSHv1),则CX云代理将根据各个设备功能自动协商协议选择。

当使用IP地址连接设备时,客户应确保IP范围内所有相关协议以及SSH版本和Telnet凭证有效,否则连接将失败。

要使用IP范围添加设备,请执行以下操作:

1. 在Configure connection to CX Cloud窗口中,选择Provide an IP Address range选项。

Configure connection to CX Cloud

Provide IP address range	×
Enter IP address range	
Starting IP Address *	Ending IP Address *
Enter SNMP v3 credentials Usemame	Engine ID
Authorization Algorithm	Authorization Password
Privacy Algorithm	Privacy Password

使用IP地址表单添加设备

- 2. 填写包含相关信息的表格。
- 可以选择多个连接选项。以下屏幕显示选项的配置凭证。有关每个连接选项的凭证字段的说明 ,请参阅<u>关于种子文件</u>。

Configure connection to CX Cloud

Provide IP address range	×
Enter IP address range	
Starting IP Address *	Ending IP Address *
Enter SNMP v3 credentials	
Username	Engine ID
Authorization Algorithm	Authorization Password
Privacy Algorithm	Privacy Password

SNMP v3凭证

Enter SNMP v2c credentials	
----------------------------	--

Read Community *

Enter SSHV2 credentials

Username	Enable Username (Optional)
Password	Enable Password (Optional)
Enter SSHV1 credentials	
Username	Enable Username (Optional)
Password	Enable Password (Optional)

SNMP v2、SSHV2和SSHV1凭证

Enter Telnet credentials

Username			Enable U	Enable Username (Optional)				
Password	Password		Enable P	assword (Optiona	l)			
Schedule Inventory Colle	ection							
Collection Frequency		Time						
Frequency	\sim	Time	\sim	IST	\sim			
Run the first collection	now (this ma	ay take up to 75 n	ninutes)					

Telnet凭证和网络扫描安排

4. 单击 Connect。 将打开Data Sources窗口,其中显示一条确认消息。

Data Sources x Det Bronger Region: United Blates Search data sources Q Image: Contract Sources Search data sources Q Image: Statil Data Sources Search data sources Q Image: Statil Data Sources Statil Data Sources Q Image: Statil Data Sources Statil Spatiend Statil Spatiend Statil Spatiend Image: Statil Data Sources Statil Spatiend Statil Spatiend Statil Spatiend Statil Spatiend Image: Statil Data Sources Statil Spatiend Statil Spatiend <t< th=""><th></th><th></th><th></th><th></th><th></th><th>_</th></t<>						_
Date Storage Region: United States Control Search data sources Search data sources Control State Data Sources State Data Sources Search data sources Control Control Control Nome Type Data Leat Spotted States Control States Nome Control Agent via 2.0 State Agent agent States Control States Nome Control Control Agent via 2.0 State Agent agent State Agent agent States Nome Control Control Agent via 2.0 State Agent agent State Agent agent State Agent agent State Agent a		Data Sources				× 🔍
Market Type Data Last Tipdated Status Viewet Type Data Last Tipdated Status Viewet Cic Cloud Agent Data Last Tipdated Status Cic Cloud Agent Cic Cloud Agent viewed Status Status Cic Cloud Agent Cloud Agent viewed Status Status Contract Contract 159 days ago Status Contract Contract Contract Status pago Contract Contract Contract Status pago Contract Contract Status pago Status Contract Contract Status pago First Collection Funding @ Cicul Network Intersight - First Collection Pruding @	-	Data Storage Region: United States				
Solution State Data Sources Name Type Data Last Slpdand Status CX Cloud Agent CX Cloud Agent v2.2.0 150 days apo Nam Analable Clotta Statis Cooreed Assets 27 days apo Nam Analable Contract Cooreed Assets 27 days apo Lest Collection Succeeded Data Center Compute Intersight - First Collection Proding @ Cloud Network Intersight - First Collection Proding @		Add A Data Source			Search data sources	Q
S fatal Data Sources Name Type Data Last Tiputane Status CX. Cloud Agent CX. Cloud Agent v2.2.0 159 days ago Nam numig 10.127 348 14S Coore DNA Center 159 days ago Nat Available Contract Coore Assets 27 days ago Last Collection Succeeded Data Center Compute Intersight - First Collection Pending @ Cloud Network Intersight - First Collection Pending @						
Name Type Data Last Opdated Status CX. Cloud Agent CX. Cloud Agent v2.2.0 150 days ago Not running Total Total Coco DNA Center 150 days ago Not Available Contract Contract Contract 27 days ago Last Collection Succeeded Data Center Compute Contract Contract 27 days ago Last Collection Funding @ Could Network Intersight - - First Collection Funding @	-	5 Total Data Sources				
CK Cloud Agent CK Cloud Agent CK Cloud Agent CK Cloud Agent TSP days age Nair Kunning 10:127:348:145 Cacor DNA Center 150 days age Nair Available Contract Contract Contract 27 days age Last Collection Succeeded Data Center Compute Intersight - First Collection Pending @ Cloud Network Intersight - First Collection Pending @	Access	Name	Type	Data Last Updated	Status	
Normal Top days age Nor Austable Contract Countract Countract Countract Data Center Compute Intersight - First Collection Pending @ Cloud Network Intersight - First Collection Pending @	207	CK Cloud Agent	CR Cloud Agent v2.2.0	159 days ago	Net running	
Data Center Compute Intensight - First Collection Panding @ Cloud NationA Intensight - First Collection Panding @	Partner	10.127.249.145	Case DNA Center	159 days ago	Not Available	
Claud Network Hersight - First Collection Pending @		Data Center Compute	Intersicht	L' olys ago	Ent Collectes Perdex A	
Column	20	Cloud Network	Intersight		First Collection Pending	
	Collection					
	Data Seattan					
Den lanen						
Con Banders	ai -					
	(4)					

编辑IP范围;

1. 定位至"数据源"窗口。

	Data Sources		• Rumma CX Cloud Agent	Covericad Report (Edit IP Address Range ;
	Add A Data Source 4 Total Data Sources Name	Туре	Summary Software 1 Clisce DNA Centers None BP Range 0000 w 0001.	
ter and term	CX Cloud Agent Other assets collected by CX Cloud Agent Data Center Compute	CX Cloud Agent v2.2.3 IP address range Intersight		
Data Coloradore Data Estato	Cloud Network	Intensight		

数据源

- 2. 单击Data Sources中需要编辑IP范围的CX云代理。详细信息窗口打开。
- 3. 单击Edit IP Address Range。Connect to CX Cloud窗口打开。

K Back To Data Sources			
	Connect to CX Cloud		
	Provide an IP address range		Edit The Protocols
	Enter IP address range Starting IP address * 0.0.0.0	Ending IP address *	
	Cancel Continue		

提供IP范围

- 4. 在起始IP地址和结束IP地址字段中更新新的IP。
- 5. 单击Edit the Protocols 链接。Connect to CX Cloud Select a protocol窗口打开。

K Back To Data Sources



选择协议

- 6. 通过点击适当的复选框选择适用的协议。
- 7. 单击 Continue。Provide an IP address range窗口打开。

Provide an IP address range	Edit The Protocols
Enter IP address range	
Starting IP address *	Ending IP address *
0.0.0.0	0.0.0.2
Enter SNMP v2c credentials	
Read community *	
Enter SSH v1 credentials	
Usemame *	Enable Username (Optional)
Password *	Enable Password (Optional)
Cancel Connect	

输入凭证

- 8. 输入配置凭证。
- 9. 单击 Connect。将打开Data Sources窗口,其中显示一条确认消息。

alaala cisco	CX Cloud Helicularito Status		Search	🥑 IP address range updated		×
	Data Sources					×
	Data Storage Region: United States					
Annuk	Add A Data Source			Search data sources	Q	
2	4 Total Data Sources					
Identity B Access	Name	Type	Data Last Updated	Status		
107	CX Cloud Agent	CX Cloud Agent v2.2.3	3 minutes ago	Running		
Station of the second s	CX Cloud Agent Other assets collected by CX Cloud Agent	CX Gloud Agent v2.2.3 IP address range	3 minutes ago 3 minutes ago	Running 1 unreachable		
Service Access	CX Cloud Agent Other assets collected by CX Cloud Agent Data Center Compute	CX Cloud Agent v2.2.3 IP address range Intersight	3 minutes ago 3 minutes ago	Running 1 unreachable First Collection Pending @		
Second Access Data	CX Cloud Agent Other assets collected by CX Cloud Agent Data Center Compute Cloud Network	CX Cloud Agent v2.2.3 IP address range Intersight Intersight	3 minutes ago 3 minutes ago -	Running I unreachable First Collection Pending First Collection Pending		
Purner Access Data Collection	CX Cloud Agent Other assets collected by CX Cloud Agent Data Center Compute Cloud Network	CX Cloud Agent v2.2.3 IP address range Intensight Intensight	3 minutes ago 3 minutes ago -	Running 1 unreachable First Collection Pending First Collection Pending		
₩ ► ► ► ► ► ► ► ► ► ► ► ► ►	CX Cloud Agent Other assets collected by CX Cloud Agent Data Center Compute Cloud Network	CX Cloud Agent v2.2.3 IP address range Intersight Intersight	3 minutes ago 3 minutes ago -	Running 1 unreachable First Collection Pending First Collection Pending		

💊 注:确认消息不能确保可访问已编辑范围内的设备,并且已接受凭证。

关于从多个控制器中发现的设备

Cisco DNA Center和直接设备连接到CX云代理可能会发现某些设备,从而导致从这些设备收集重复数据。为避免收集重复数据,且只有一个控制器管理设备,需要确定CX云代理管理设备的优先级。

- 如果设备首先由Cisco DNA Center发现,然后由直接设备连接(使用种子文件或IP范围)重 新发现,则Cisco DNA Center优先控制设备。
- 如果设备首先通过直接设备连接至CX云代理被发现,然后由Cisco DNA Center重新发现,则 Cisco DNA Center优先控制设备。

安排诊断扫描

要计划诊断扫描,请执行以下操作:

- 1. 在主页上,点击设置(齿轮)图标。
- 2. 在"数据源"页上,在左侧窗格中选择数据收集。
- 3. 单击Schedule Scan。

Data Collection

Diagnostic Scans 💿		Schedule Scan	<		Octo	ber 2	2022		>
			Sun	Mon	Tue	Wed	Thu	Fil	Get
									1
No Diago	ostic Scans Found		2	3	4	5	6	7	8
no blagi			9	10	11	12	13	14	15
			16	17	18	19	20	21	22
			23	24	25	26	27	28	29
Inventory Collection ()			30	31					
3 Collections									
Source	Schedule		Rapid	Problem	Resoluti	on			
Other assets collected by CX Cloud Agent	Monthly on the 30th at 05:30 PM EDT	:	Autom is oper proble	ate data c ned. This I ms faster.	helps Cisc	o experts	ostics wh diagnose	en a supp e and trou	ort case bleshool
10.197.238.127	Monthly on the 30th at 05:00 PM EDT	1	-	Enable	for Camp	us Netwo	irk		
22.1.90.1	Monthly on the 30th at 09:00 PM EDT	1							

数据收集

4. 为此扫描配置计划。

chedule His	story						
Weekly	\sim o	n Sunday	∼ at	12:00 am	~ E	EDT	
reated: Oct 3	3, 2022						

配置扫描计划

5. 在设备列表中,选择要扫描的所有设备,然后单击Add。

New Scheduled Scan

Data 5	ources		Schedule					
Other	assets collected by CX Cloud	Agent ×	Frequency	at Time	 IST Save Changes 			
escrip	ion (Optional)							
	Device	Source IP	IP Address			Device	Source IP IP Address	
	Device_22_0_2_1	10.127.249.156	22.0.2.1		Add >			
	Device_22_0_32_1	10.127.249.156	22.0.32.1		Remove			
	Device_22_0_36_1	10.127.249.156	22.0.36.1					
	Device_22_0_41_1	10.127.249.156	22.0.41.1					
	Device_22_0_51_1	10.127.249.156	22.0.51.1				Desires are not of selected list	
	Device_22_0_55_1	10.127.249.156	22.0.55.1				Patientian ma beau de regeleran est	
	Device_22_0_61_1	10.127.249.156	22.0.61.1					
	Device_22_0_63_1	10.127.249.156	22.0.63.1					
	Device_22_0_64_1	10.127.249.156	22.0.64.1					
	Device_22_0_70_1	10.127.249.156	22.0.70.1					

安排扫描

6. 调度完成后,单击Save Changes。

诊断扫描和资产收集计划可以从"数据收集"页进行编辑和删除。

2 Scars	Sch	edule Scan		Oct	ober 2	2022		>
Asset Count Source	Schedule	Sun	Mon	744	Vied	174	Pet.	Sat
1 10.127.249.152	Not scannable	1						1
10 10.127.249.152	Daily at 07:00 PM IST	Edit Schedule	3	4	5	6	7	8
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		16	17	10	19	20	41	~~
		23	24	25	26	27	28	29
		30	31					
Inventory Collection ()		Rapid	Proble	m Resolut	ion			
8 Collections Source	Schedule	Autom is ope proble	ate data ned. This ms faste	collection helps Cise r.	and diagr	ostics wh s diagnose	en a supp e and trou	port car iblesho
Other assets collected by CX Cloud Agent	Daily at 04:00 AM IST	E	Enab	le for Camp	sus Netwo	orfk		
	Daily at 12:30 AM IST	1	vobiam Ba	esclution for	Cloud Nets	vork and De	rta Center G	Compute
	and a resources	Rapid F						

具有编辑和删除计划选项的数据收集

部署和网络配置

选择以下任一选项以部署CX云代理:

- 要选择VMware vSphere/vCenter Thick Client ESXi 5.5/6.0,请转到<u>Thick Client</u>
- 要选择VMware vSphere/vCenter Web客户端ESXi 6.0,请转至<u>Web客户</u>端或<u>vSphere Center</u>
- 要选择Oracle Virtual Box 5.2.30,请转到<u>Oracle VM</u>
- 要选择Microsoft Hyper-V,请转到<u>Hyper-V</u>

OVA 部署

胖客户端 ESXi 5.5/6.0 安装

此客户端允许使用vSphere胖客户端部署CX云代理OVA。

1. <u>下载映像后,启动VMware vSphere客户端并登录</u>。

🖉 VMware vSphere Client 🛛 🗙
vmware [*] VMware vSphere [*] Client
All vSphere features introduced in vSphere 5.5 and beyond are available only through the vSphere Web Client. The traditional vSphere Client will continue to operate, supporting the same feature set as vSphere 5.0.
To directly manage a single host, enter the IP address or host name. To manage multiple hosts, enter the IP address or name of a vCenter Server.
IP address / Name: 10.126.77.60 User name: root Password: *****
Use Windows session credentials

2. 从菜单中选择文件>部署OVF模板。

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	,	diamona anda			and the second second

vSphere 客户端

3. 浏览以选择OVA文件,然后单击Next。

Deploy OVF Template Source Select the source location.	_		×
Source OVF Template Details Name and Location Disk Format Ready to Complete	Deploy from a file or URL There a URL to download and install the OVF package from the Internet, or specify a location accessible from your computer, such as a local hard drive, a network share, or a CD/DVD drive.		
Help	< Back Next >	Can	cel

OVA 路径

4. 验证OVF详细信息,然后单击下一步。

🕢 Deploy OVF Template

OVF Template Details

Verify OVF template details.

Source OVF Template Details Name and Location Disk Format Network Mapping Ready to Complete	Product: Version: Vendor: Publisher: Download size: Size on disk: Description:	CICloudAgent_2.0_Build-144 2.0 Cisco Systems, Inc CISCO SYSTEMS, INC. 1.1 G8 3.1 G8 (thin provisioned) 200.0 G8 (thick provisioned) CICloudAgent_2.0_Build-144		
Неір			< Back Next >	Cancel

模板详细信息

5. 输入Unique Name,然后单击Next。


Name and Location

Specify a name and location for the deployed template

Source	Names
OVF Template Details	CXCloudAgent_2.0_Build-144_0000
Name and Location Disk Format Network Mapping Ready to Complete	CXCloudAgent_2.0_Build-144
Help	< Back Next > Cancel

名称和位置

6. 选择Disk Format,然后单击Next(建议使用Thin Provision)。

Deploy OVF Template Disk Format In which format do you	want to store the virtual disks?			-		×
Starse OVF Template Details Name and Location Disk Format Network Mapping Ready to Complete	Datastore: Available space (G8): C Thick Provision Lary 2 C Thick Provision Eager C Thin Provision	datastore 1 (11) 973.1 eroed Zeroed				
Нер			< Back	Next >	Can	oel

磁盘格式化

7. 选中Power on after deployment复选框并单击 关闭。

Deploy OVF Template

Ready to Complete

Are these the options you want to use?

Source OVF Template Details	When you click Finish, the deployment	nt task will be started.					
Name and Location	Deployment settings:						
Disk Format	OV# file:	C:\Users\oxcadmin\Downloads\OVA\C0CloudAget_20_					
Network Mapping	Download size:	1.1 GB					
Ready to Complete	Size on disk:	3.1 G8					
	Name: CXCloudAgent_2.0_Build-144_06M0						
	Host/Cluster	localhost.					
	Datastore:	datastore1 (11)					
	Disk provisioning:	Thin Provision					
	Network Mapping:	"VM Network" to "VM Network"					
	Power on after deployment						
Help		< Back Finish Cancel					

准备完成

部署可能需要几分钟。成功部署后将显示WConfirmation。



部署完成

8. 选择已部署的VM,打开控制台,然后转到<u>网络配置</u>以继续执行后续步骤。

- 🗆 🗙

此客户端使用vSphere Web部署CX云代理OVA。

1. 使用用于部署VM的ESXi/虚拟机监控程序凭证登录到VMWare UI。

vm ware [.]	
Ever name Featured ref	vmware [,] esxi [*]
Lege	

VMware ESXi 登录

2. 选择Virtual Machine > Create / Register VM。

[ile [dt Yew Higtory [lookmarks	Joop Reb
🛃 localhost.localdomain - VMec:- X	😻 New Tab X +
$\leftarrow \ \ \rightarrow \ \ \sigma$	O A ↔ https://10.126.77.20/u/#/host
vmware: ESXI'	
T Navigator	DiscaliosLocaldonain
Host Hanage Hontor Gr Virtual Machines Gr Storage Gr Metworking	Manage with vCenter Server Create/Register VM Control down Retoot Create Allows Iocalhost.localdomain Create or register a Virtual Machine Version: 4.6.0 Vpdier 10 Volder 10 Volde

创建 VM

3. 选择通过 OVF 或 OVA 文件部署虚拟机,然后点击下一步。

1 New virtual machine			
 1 Select creation type 2 Select OVF and VMDK files 3 Select attraces 	Select creation type How would you like to create a Virtual Machine?		
4 License agreements 5 Deployment options 6 Additional settings 7 Ready to complete	Create a new virtual machine Deploy a virtual machine from an OVE or Ove file Register an existing virtual machine	~	This option guides you through the process of creating a virtual machine from an OVF and VMOK files.
vm ware [.]			Buck Net Finish Cancel

选择创建类型

4. 输入虚拟机的名称,浏览以选择文件,或者拖放下载的OVA文件。

5. 单击 Next。



1 Select creation type 2 Select OVF and VIIIOK files 3 Select storage 4 License agreements 5 Deployment options 6 Additional settings 7 Ready to complete	Select storage Select the storage type and datastore Standard Persistent lifemory Select a datastore for the virtual machine's	configuration fil	es and all of it	is' virtual disks			
	Name v	Capacity 🐱	Free -	- Tipe	Thin pro v	Access	
	datastore1	4.35 TB	3.57 TB	VMF95	Supported	Single	
						1.0	ems

选择存储

7. 选择适当的部署选项并点击 下一步.

Network mappings	101010-000				
	VIA PVESVOCK	VM Corporate Network	~		
Disk provisioning	Thin () Thick				
Power on automatically					
	Disk provisioning Power on automatically	Disk provisioning I thin () The Power on automatically	Disk provisioning Imin () Thick Power on automatically		

8. 检查设置,然后点击完成。

	Ready to complete Review your settings selection before finishing the wizard					
	Product	CICItousAgent_2.0_Build-144 CIC Churd Agent 2.0 DBMO				
	Disks	CICloud-gent_20_Build-144-1_signed-sha1-disk1.vmdk				
	Datastore	datastore1				
	Provisioning type	Thin				
	Network mappings	VM Network: VM Corporate Network				
	Guest OS Name	Uninown				
	Construction y	our browser while this VMI is being deployed.				
mware						

准备完成

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	percepted comparing	Top 14	The Property of	1011202210.012	ALC: NO. 1	A reduced property.	101100201000	1.00

成功完成

9. 选择刚部署的虚拟机,然后选择Console > Open browser console。

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控制台

10. 导航到网络配置以继续执行后续步骤。

Web 客户端 vCenter 安装

执行以下操作:

1. 使用ESXi/虚拟机监控程序凭证登录vCenter客户端。

VMware [®] vSphere	
hamped to react to a	
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登录

2. 在Home页中,单击Hosts and Clusters。

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and the second the second second								
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主页

3. 选择 VM,然后点击操作 > 部署 OVF 模板。

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操作



选择模板

- 4. 直接添加URL或浏览以选择OVA文件,然后点击下一步。
- 5. 输入唯一的名称,并在需要时浏览到该位置。
- 6. 单击 Next。

Deploy OVF Template

 1 Select an OVF template 2 Select a name and folder 	Select a name and fold Specify a unique name	er and target location			
3 Select a compute resource 4 Review details 5 Select storage	Virtual machine name:	CXCloudAgent_2.0_Buil	id-144-demo		_
6 Ready to complete	Select a location for the	e virtual machine.			
	 IO 126.77.54 CommonPool Delete Performance Automation Build-Server Build-Server BonAC Security Tools 				
			CANCEL	BACK	NEXT

名称和文件夹

7. 选择计算资源,然后单击下一步。

 1 Select an OVF template 2 Select a name and folder 	Select a compute resource Select the destination compute resource for this operation	
3 Select a compute resource		
4 Review details	V 🔝 Security	
5 Select storage	> 10.126.77.51	
o keady to comprete		
	Compatibility	
	 Compatibility checks succeeded. 	
	CANCEL BACK	N

选择计算机资源

8. 检查详细信息,然后点击下一步。

and any train

Deploy OVF Template

- ✓ 1 Select an OVF template
- 2 Select a name and folder
 3 Select a compute resource

Review details

Verify the template details.

4 Review details

- 5 Select storage
- 6 Select networks
- 7 Ready to complete

Publisher	DigiCert SHA2 Assured ID Code Signing CA (Trusted certificate)
Product	CXCloudAgent_2.0_Build-144
Version	2.0
Vendor	Cisco Systems, Inc
Description	CXCloudAgent_2.0_Build-144
Download size	11-08
Size on disk	3.1 GB (thin provisioned)
	200.0 GB (thick provisioned)

CANCEL BACK

a.

NEXT

检查详细信息

9. 选择虚拟磁盘格式,然后点击下一步。

1 New virtual machine - CX Cloud Apr	NI 2.0 DEMO						
 1 Select creation type 2 Select OVF and VMDIC files 3 Select stocage 4 License agreements 5 Deployment options 6 Additional settings 7 Ready to complete 	Select storage Select the storage type and datastore Standard Persistent Memory Select a datastore for the virtual machine's	configuration fi	es and all of its	'viñual disks.			
	Name v	Capacity ~	Free v	Type v	Thin pro	Access	÷
	datastore1	4.35 TB	3.57 TB	VMFS5	Supported	Single	0
						18	ems
vmware [.]							
			0	ack Ne	nt Finis	n C	ancel

选择存储

10. 单击 Next。

Deploy OVF Template

- ✓ 1 Select an OVF template
- 2 Select a name and folder
 3 Select a compute resource

Review details

Verify the template details.

4 Review details

- 5 Select storage
- 6 Select networks
- 7 Ready to complete

Publisher	DigiCert SHA2 Assured ID Code Signing CA (Trusted certificate)
Product	CXCloudAgent_2.0_Build-144
Version	2.0
Vendor	Cisco Systems, Inc
Description	CXCloudAgent_2.0_Build-144
Download size	11-08
Size on disk	3.1 GB (thin provisioned)
	200.0 GB (thick provisioned)

CANCEL BACK

NEXT

à.

选择网络

11. 单击 完成。

Deploy OVF Template

- ✓ 1 Select an OVF template
- ✓ 2 Select a name and folder
- ✓ 3 Select a compute resource
- ✓ 4 Review details
- ✓ 5 Select storage
- ✓ 6 Select networks

7 Ready to complete

			1.00	
COLUMN TWO IS NOT	85.00x	-0103	And a real from	State
increased by	1000	2020	1000	1.00

Click Finish to start creation.

Provisioning type	Deploy from template
Name	CXCloudAgent_2.0_Build-144-demo
Template name	CXCoudAgent_2.0_Build-144-1_signed-sha1
Download size	1168
Size on disk	3168
Folder	Security
Resource	10.126.77.51
Storage mapping	1
All disks	Datastore: datastore1 (23); Format: Thin provision
Network mapping	1
VM Network	VM Network
IP allocation settings	
IP protocol	IPV4
IP allocation	Static - Manual

CANCEL BACK

FINISH

al

准备完成

12. 点击新添加的虚拟机的名称以查看状态。

0 0 0	2		8 CKDoudAge	nt_2.0_Build 144-den	60 F =	# 0 0 attents			
- Ørensense			Summary Munitor	Configure Permissions 1	batactores that	terole: Updates			
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) (h fan	and a first on and		VM Paralesee			Testas .			
			1.09	# CPatto		Colousingers, J. S., Base See			
			- Menory	1 10 10 10 memory and	-	Bat Notes.			
			1.1003.001	200.08		Current Attribution			w
			> Network adapter1	We had work all contracted		VM Incode Policies			
			Property arrive 1	Oncorrected					
			· water card						
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inset (bit package	Q waxes	v Grand					10.04		074-0542
in al									The last
and the second se									

13. 安装完成后,打开VM并打开控制台。

(CHORE AND A		Summary Intentor	Configure Permanent	Catasteres Inc	darphic Lipshere		
3 Editorialitat 3 Editoria 2 Editoria			Sand CE Observations & Comparisony EDITLE and of Observations Sections and	annon an 1944 ann an Alb			o Hiz
> Di Automation	🗯 Albert - Differentigent, J. S., Autor	many in	Margarity.				ABAGER GLADE
> Delivery	Press.	 It is seen to: 					NORMAL COMMON
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	trapping	· interest					
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	done .	· Ohersteiner			Built holes		
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	Tempote	 beeck adapter 1 	Vit Network (december)		Contraction in the local		
	during a state of the	a province t	Decementer		the standar contract		
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Access Tables Access	Worker to Tables .						
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any defenses Discovery at the means	Tage & Content Attributes			and a state of		1.44	0.00
	All Partners.						
The second se	410111			Charles and		10.00	0.00
	Removal from maintency						
	Owner's Houre Draw						
	Update Wataper						

打开控制台

14. 导航到网络配置以继续执行后续步骤。

Oracle Virtual Box 5.2.30 安装

此客户端通过Oracle虚拟盒部署CX云代理OVA。

1. 打开Oracle VM UI并选择文件 > 导入设备。



Oracle VM

2. 浏览以导入 OVA 文件。



选择文件

3. 单击 Import。

	Virtual System 1		
	😭 Name	00	
	Product	CXCloudAgent_2.0_Build-144	
	Vendor	Cisco Systems, Inc	
	Vendor-URL	http://www.cisco.com	
	Version	2.0	
	Description	CXCloudAgent_2.0_Build-144	
	Guest OS Type	🚰 Ubuntu (64-bit)	
	CPU		
	B RAM	16384 MB	
	E Floppy	0	
	Network Adapter	Intel PR0/1000 MT Desktop (\$25400M)	
	Storage Controller (DE)	P1014	
/	Storage Controller (DE)	Pt014	
	Warnings:		
	No trusted certificate paths		
	Machine Base Folder: 🚞 (Joers)	Wukatla/Virtualitox Wes	
	MAC Address Policy: Include or	lly NAT network adapter MAC addresses	
	Additional Options: 😅 Import h	and drives as VDI	

导入文件

4. 选择刚部署的VM,然后单击Start。

• • •	Oracle VM VirtualBox Manager
Tools	New Settings Discard Black
CXC E	Coneral Preview Name: CXC Operating System: Ubuntu (64-bit)
Session unlocked	System Base Memory: 16384 MB Processons: 8 Boot Order: Floppy, Optical, Hard Disk Acceleration: VT-xJAMD-V, Nested Paging, PAE/NX, KVM Paravirtualization
	Video Memory: 16 MB Graphics Controller: VBoxVGA Remote Desktop Server: Disabled Recording: Disabled
	Storage Controller: IDE Controller: SCSI SCSI Port 0: CXCloudAgent_2.0_Build-144-1_signed-sha1-disk1.vdi (Normal, 200.00 GI Controller: Floppy Floppy Device 0: Empty
	Audio Host Driver: CoreAudio Controller: ICH AC97

	Appliance settings			
	These are the virtual machines con change many of the properties sho	tained in the appliance and the suggested settings of wn by double-clicking on the items and disable others	he imported VirtualBox machines. You can using the check boxes below.	
	Virtual System 1			
	🚔 Name	CNC		
	Product	CXCloudApent_2.0_Build-144		
1	A few seconds rem	isk image 'CXCloudAgent_2.0_Build-144-1_signed-sho aining	(1-disk1.vmdk' (2,2)	
	Guest OS Type	🖄 Ubuntu (64-bit)		
	OU	8		
	RAM	16384 MB		
	E Piccoy	¥		
	Network Adapter	Intel PRO/1000 MT Desktop (825400M)		
	👌 Storage Controller (DE)	P1064		
	👌 Storage Controller (DI)	P1004		
	Warnings:			
	- No trusted certificate paths			
	Machine Base Folder: 🛅 Alternity	kukatla/VirtualBox VMs		w
	MAC Address Policy: Include on/	NAT network adapter MAC addresses		0
	Additional Options: 🗸 Import ha	rd drives as VDI		
	Unverified signature by CISCO SYS	TEMS, INC.1		
		Restore	Sefaults Go Back Import I	Cancel

正在导入

5. 打开VM电源。系统随即会显示控制台。

• • •	CXC [Running]	
The Virtual Machine reports that the	he guest OS does not support mouse pointer integration in the current vide $\hat{\boldsymbol{g}}$ mov	de. <table-cell> 💘</table-cell>
		A Diate St.

打开控制台

6. 导航到网络配置以继续执行后续步骤。

Microsoft Hyper-V 安装

执行以下操作:

1. 选择导入虚拟机。

2a		Hyper-V Manager		- 0 X
File Action View Help				
** 200 800				
Hyper-V Manager			Actions	
WIN-ALPHOACWA"	New +		WIN-ALPH2AC9VK7	
	Import Virtual Machine	State CF	New	F
	Hyper-V Settings	No vitual machines were found on this server.	💫 Import Virtual Machine	
	Virtual Switch Manager		Hyper-V Settings	
	Virtual SAN Manager		👯 Virtual Switch Manager	
	Edit Disk		2 Virtual SAN Manager	
	Impect Disk		på Edit Disk	
	Stop Service		E Inspect Disk	
	Remove Server		Stop Service	
	Refresh		X Remove Server	
	View +		G. Refresh	
	Help		View	
			Help	
	4			
	Snapshots			
	Details			
		No ten selected.		
	4	5		
Displays the Import Wisard.				

Hyper V管理器

- 2. 浏览并选择下载文件夹。
- 3. 单击 Next。



要导入的文件夹

4. 选择VM并点击下一步。

74	Impor	t Virtual Machine	×
Select Virtua	l Machine		
Before You Begin	Select the virtual machine	to import:	
Locate Folder	Name		Date Created
Choose Import Type Summary	CO Courd Agent 2.0_544	-144	3/3/2022 9129122 PM
		< Previous Next :	Prish Cancel

选择 VM

5. 选择Copy the virtual machine(create a new unique ID)单选按钮,然后单击Next。

2	Import Virtual Machine
Choose Im	port Type
Before You Begin	Choose the type of import to perform:
Locate Folder	 Register the virtual machine in-place (use the existing unique ID)
Select Virtual Machine	Restore the virtual machine (use the existing unique ID)
Choose Import Type	Copy the virtual machine (create a new unique ID)
	<previous next=""> Finish Cancel</previous>

导入类型

- 6. 浏览以选择 VM 文件的文件夹。建议使用默认路径。
- 7. 单击 Next。

	Import Virtual Machine	X
Choose Fo	olders for Virtual Machine Files	
Before You Begin Locate Polder Select Virtual Machine Choose Import Type	You can specify new or existing folders to store the virtual machine files. Otherwise, the wizard imports the files to default Hyper-V folders on this computer, or to folders specified in the virtual machine configuration. Store the virtual machine in a different location Virtual machine configuration folder:	
Choose Storage Folders Summary	C:/ProgramData/Microsoft/Windows/Hyper-V\ Browse. Snapshot store: C:/ProgramData/Microsoft/Windows/Hyper-V Browse. Smart Paging folder: Smart Paging folder: Browse.	
	C:\ProgramData\Microsoft\Windows\Hyper-V Browse	
	< Previous Next > Finish Cance	ł

选择虚拟机文件的文件夹

- 8. 浏览并选择要存储 VM 硬盘的文件夹。建议使用默认路径。
- 9. 单击 Next。

	Import Virtual Machine
Choose Fold	ers to Store Virtual Hard Disks
Before You Begin Locate Folder Select Virtual Machine Choose Import Type Choose Destination Choose Storage Folders Summary	Where do you want to store the imported virtual hard disks for this virtual machine? Location: Cripteers Public Documents Hyper Virtual Hard Dass
	< Previous Next > Finish Cancel

用于存储虚拟硬盘的文件夹

10. 系统随即会显示VM摘要。检验所有输入并点击完成。

	Import Virtual I	Machine
Completing	Import Wizard	
Before You Begin Locate Folder	You are about to perform the following Description:	operation.
Select Virtual Machine Choose Import Type Choose Destination Choose Storage Folders Summary	Virtual Machine: Import file: Import Type: Virtual machine configuration folder: Snapshot folder: Smart Paging file store: Virtual hard disk destination folder:	CXCloudAgent_2.0_Build-144 C:\Users\vishnu\Downloads\2.0\CXCloudAgent_2.0_Build-144\ Copy (penerate new ID) C:\ProgramData\Microsoft\Windows\Hyper-V\ C:\ProgramData\Microsoft\Windows\Hyper-V C:\ProgramData\Microsoft\Windows\Hyper-V C:\Users\Public\Documents\Hyper-V\Virtual Hard Disks\
	c III	vizard, click Finish.
		< Previous Next > Finish Cancel

摘要

11. 成功完成导入后,将在Hyper-V上创建新的VM。打开VM设置。

12. 在左侧窗格中选择网络适配器,然后从下拉列表中选择可用的虚拟交换机。



虚拟交换机

13. 选择Connect以启动VM。

1a		Hyper-V Manager			×
File Action View Help					
🗢 🔶 🙇 🔝 🖬 🔝					
Hyper-TManager				Actions	
WIN-ALPHOACWIKT	Virtual Machines			WIN-ALPH2AC9VK7	
	Name	State CPU	Usage Assigned Merr	New	×.
	2000000000001_212_0000144	Connect		🚡 Import Virtual Machine	
		Settings		Hyper-V Settings	
		Start		👯 Virtual Switch Manager	
		Snapshot		🤰 Virtual SAN Manager	
		Mexe-		💰 Edit Did	
		bpot		📇 Inspect Disk	
		Rename		Stop Service	
		Delete		X Remove Server	
		Enable Replication		G Refresh	
		Help		View	
				Help	
	< =		3	CXCloudAgent 2.0 Rul-	
	Snapshots		0	d Connect.	
				El Settings	
	CXCloudAgent_2.0_Build-1-	44		Stat	
				Ba Snapshot	
	Created: 3/11/25	22 250.41 PM Clustered:	No	Move	
	NOONS NOVE			a toport.	
				- Rename-	
				Le Delete	
	Summary Memory Networking Reg	pleaters		Enable Replication	
	1 C		1.5	Hela	

启动 VM

14. 导航到网络配置以继续执行后续步骤。

网络配置

1. 单击Set Password为cxcadmin添加新密码,或单击Auto Generate Password以获取新密码。



设置密码

2. 如果选择设置密码,请输入 cxcadmin 的密码并确认。点击设置密码并转到步骤 3。

	Set Password
In the Password and (cxcadmin. When you as (Use the Up Arrow and Press the Tab key to	Confirm Password fields, enter and confirm a new password for re finished, select Set Password I Down Arrow keys to navigate between fields. select Set Password.)
Usernane:	cxcadnin
Password :	
Confirm Password:	
	(Set Fassword)

新密码

或者

如果选择Auto Generate Password,请复制生成的密码并将其存储起来供将来使用。点击保 存密码并转至步骤 4。

Autogenerated Password
Password: SIXHXXXXXXX
Make sure to store this password in a safe place. This password is required to log into Cisco CX Cloud Agent.
After you have stored the password in a safe place, select Save Password. To return to the previous screen, select Cancel.
(Save Password) < Cancel >

自动生成的密码

3. 点击保存密码以将其用于身份验证。

Password Strength						
The strength of the new password is Medium. To save the password, select Save Password. To configure a different password, select Cancel to return to the Set Password screen.						
(Save Password)	Cancel >					

保存密码

4. 输入IP地址、子网掩码、网关和DNS服务器,然后单击继续。

Network Configuration					
Please enter an IPv4 address and corresponding network configuration for the appliance.					
(Use Up/Down keys to navigate to next field. Press Tab to jump to Continue button)					
IP Address:					
Subnet Mask:					
Gateway:					
DNS Servers: #Maximum 3 IPs with comma separator.					
<continue></continue>					

网络配置

5. 确认输入,然后点击是,继续。

Confirm Are these entries correct? IP Address: Subnet Mask: Gateway: DNS:	stion	
 (Yes, Continue)	< Mo. Go Back >	

配置

6. 要设置代理详细信息,请单击Yes, Set Up Proxy或单击No, Continue to Configuration以完成配置,然后转至步骤8。



代理设置

7. 输入代理地址、端口号、用户名和密码。

Proxy Configuration							
Please enter proxy details for the network.							
(Use Up/Down keys to navigate to next field. Press Tab to jump to Setup Proxy button)							
Proxy Address:	L						
Port Number:							
Usernane:							
Password :							
<begin configu<="" th=""><td>uration></td><td><</td><td>No, Go Back</td><td>></td><td></td></begin>	uration>	<	No, Go Back	>			

代理配置

8. 点击开始配置。



开始配置

9. 单击 Continue。

Cisco CX Cloud Agent Configuration Following is the summary of CX Cloud Connectivity verification results. Ensure all the connections are successful for the "opted in" region before proceeding. US: cloudsso.cisco.com:Success agi-cx.cisco.com:Success agent.us.csco.cloud:Success agent.us.csco.cloud:Failed AFJC: cloudsso.cisco.com:Success agent.us.csco.cloud:Success agent.agic.csco.cloud:Success agent.agic.csco.cloud:Success agent.agic.csco.cloud:Success agent.agic.csco.cloud:Success agent.us.csco.cloud:Success agent.us.csco.cloud:Success agent.us.csco.cloud:Success agent.us.csco.cloud:Success agent.us.csco.cloud:Success agent.ese.csco.cloud:Success agent.ese.csco.cloud:Success agent.ese.csco.cloud:Success agent.ese.csco.cloud:Success agent.ese.csco.cloud:Success agent.ese.csco.cloud:Success agent.ese.csco.cloud:Success agent.ese.csco.cloud:Success agent.ese.csco.cloud:Success agent.ese.csco.cloud:Success agent.ese.csco.cloud:Success agent.ese.csco.cloud:Success agent.ese.csco.cloud:Success agent.ese.csco.cloud:Success agent.ese.csco.cloud:Success agent.ese.csco.cloud:Success agent.ese.csco.cloud:Success
<check again=""></check>

继续配置

10. 单击Continue继续配置以成功到达域。完成配置可能需要几分钟。

注意:如果域无法成功访问,客户必须通过更改其防火墙来修复域可达性,以确保域可 访问。解决域可达性问题后,单击Check Again。



正在配置

11. 复制配对代码并返回到 CX Cloud 以继续设置。



配对代码

12. 如果配对代码过期,请单击Register to CX Cloud以再次获取该代码。



代码已过期

13. Click OK.



注册成功

使用CLI生成配对代码的备用方法

用户还可以使用CLI选项生成配对代码。

使用CLI生成配对代码:

- 1. 使用cxcadmin用户凭证通过SSH登录云代理。
- 2. 使用命令生成配对代码 cxcli agent generatePairingCode。



生成配对代码 CLI

3. 复制配对代码并返回到 CX Cloud 以继续设置。

配置Cisco DNA Center以将系统日志转发到CX云代理

先决条件

支持的Cisco DNA Center版本为2.1.2.0到2.2.3.5、2.3.3.4到2.3.3.6、2.3.5.0和Cisco DNA Center虚拟设备

配置系统日志转发设置

要在Cisco DNA Center中配置到CX云代理的系统日志转发,请执行以下步骤:

- 1. 启动 Cisco DNA Center。
- 2. 转至设计 > 网络设置 > 网络。
- 3. 对于每个站点,将 CX Cloud Agent IP 添加为系统日志服务器。

Cisco DNA Cent	lor eesion	POLICY	PROVISION	ASSURANCE	PLATFORM	
Network Hierarchy	Network Settings	Image R	epository	Network Profiles	Auth Template	
EQ. Find Hararchy		Network	Device Cred	ientials IP Address	s Pools SP Profiles Wireless	
 - ∂:Global - ∂:Bangatore ¥EBGL16 		Setup netwo are discover	rk properties B ed, DNA Cente	ke AAA, NTP; Syslog, Tr: r will deploy using these	rap and NetFlow using the "Add Servers" link. C e settings.	Ince devices
		SYSLO0 Cisco DA 595L00 172.23.183	G Server A Center as sys	* Tog server +		

syslog 服务器



配置后,与该站点关联的所有设备都将配置为向CX云代理发送级别为"关键"的系统日志。设备

必须关联到站点,才能启用从设备到CX云代理的系统日志转发。 更新系统日志服务器设置时,与该站点关联的所有设备都会自动设置为默认严重级别。

配置其他资产以将系统日志转发到CX云代理

必须配置设备以将系统日志消息发送到CX云代理,才能使用CX云的故障管理功能。

💊 注意:只有园区成功跟踪第2级设备才有资格配置其他资产以转发系统日志。

具有转发功能的现有系统日志服务器

执行系统日志服务器软件的配置说明,并将CX云代理IP地址添加为新目标。

💊 注意:转发系统日志时,请确保保留原始系统日志消息的源IP地址。

没有转发功能的现有系统日志服务器或没有系统日志服务器

将每台设备配置为将系统日志直接发送到CX云代理IP地址。有关特定配置步骤,请参阅以下文档。

<u>IOS-XE配置指南</u>

<u>AireOS无线控制器配置指南</u>

启用信息级别系统日志设置

要使系统日志信息级别可见,请执行以下步骤:

1. 导航至工具>遥测。


工具菜单

2. 选择并展开Site View,然后从站点层次结构中选择站点。

Cisco DNA Center			Telemetry	/			• ٩		0	0	-1
Telemetry Assessment and Confi	guration										
Site View Profile View											
Sites Hierarchy ~ Global	Ac	tions v 0					Show	Al		~	
> Bangalore		Device Name -	Address	Туре	Family	Version		Prof	de		
		513E-A-25-C9606R-1	10.201.183.90	Cisco Catalyst 9606	Switches and Hubs	16.11.1		Disab	rie Telem	ety	
		Device_6_0_1_1	6.0.1.1	Cisco Catalyst 9407R	Switches and Hubs	16.8.1a		Disab	ie Telem	etry	

站点视图

3. 选择所需站点并选中使用设备名称复选框的所有设备。

4. 从操作下拉列表中选择最佳可见性。

Telemetry Assessment and Configuration	n							
Site View Profile View								
Sites Hierarchy V Global	Actions ~ 0					Show	Al	~
> Bangalore	Maximal Visibility Optimal Visibility	Address	Туре	Family	Version		Profile	
	Disable Telemetry	10.201.183.90	Cisco Catalyst 9606	Switches and Hubs	16.11.1		Disable Telerr	etry

操作

备份和恢复CX云虚拟机

建议使用快照功能在特定时间点保留CX云代理VM的状态和数据。此功能有助于将CX云VM恢复到 拍摄快照的特定时间。

备份

要备份CX云虚拟机,请执行以下操作:

1. 右键点击VM,然后选择Snapshot > Take Snapshot。Take Virtual Machine Snapshot窗口打开。

CXCloudAgent_2.2_Build-35_10.12b. CXCloudAgent_2.2_Build-35_12 CXCloudAgent_2.2_Build-35_Ad	Power	an use virtual machines as desktop or hents, as testing environments, or to pplications.
CXCloudAgent_2.2_Build-35_Bu	Snapshot •	🖄 Take Snapshot
CXCloudAgent_2.2_Build-4_Cha	Open Console	Revert to Current Snapshot
CXCloudAgent_2.2_Build-7_Cha	Edit Settings	III Snapshot Manager
CXCloudAgent_2.2_Build-7_Niti	Add Permission Ctrl+P	_
CXCloudAgent_2.2_Build-8_Bot CXCloudAgent_2.2_Build-8_Cha	Report Performance	virtual machine
CXCloudAgent_2.2_Build-8_Niti	Rename	rictual machine
CXCloudAgent_2.2_Build-8_niti CXCloudAgent_2.2_Build-8_nJ	Open in New Window Ctrl+Alt+N	
CXCloudAgent_2.2_Build-9_10.	Remove from Inventory	chine settings
CXCloudAgent_2.2_Build-9_10.	Delete from Disk	

选择 VM

🖉 Take Virtual Machine Snapsh 🗕 🗖 🗙
Name
Snapshot_Name <provide_snapshot_name></provide_snapshot_name>
Description
<description ef="" for=""></description>
Snapshot the virtual machine's memory
Quiesce guest file system (Needs VMware Tools installed)
OK Cancel



2. 输入名称和说明。

💊 注意:验证是否已清除"快照虚拟机的内存"复选框。

3.单击确定。创建虚拟机快照状态在"最近的任务"列表中显示为已完成。



最近的任务

恢复

要恢复CX云虚拟机,请执行以下操作:

1. 右键点击VM,然后选择Snapshot > Snapshot Manager。将打开VM的快照窗口。

Build-2 Build-3 Build-3	Power F Guest	ronments, as testing environments, er applications.
_Build-4	Snapshot •	🔯 Take Snapshot
Build-1	Open Console	Revert to Current Snapshot
_Build- 👸	Edit Settings	Snapshot Manager
_Build-1 Build-1	Add Permission Ctrl+P	Consolidate
Build-8 Build-8	Report Performance	the virtual machine
Build-6	Rename	he virtual machine
_Build-8 _Build-8	Open in New Window Ctrl+Alt+N	ne virtual macime
_Build-9	Remove from Inventory	I machine settings
_Build-1	Delete from Disk	

选择VM窗口

Snapshots for CXCloudAgent_2.2_I	Build-35_122_Aditya_test 📃 🗖 🗙
CXCloudAgent_2.2_Build-35_122_Aditya_test 2.2.1 Snapshot_Name <provide_snapshot_name You are here</provide_snapshot_name 	Name Snapshot_Name <provide_snapshot_name></provide_snapshot_name>
	Oescription <description for="" ref=""></description>
< III >	
Go to Delete Delete All	Edit
	Close

Snapshots窗口

2. 单击Go to。Confirm窗口打开。

	Description <description for="" ref=""></description>		Host
	Confirm		×
Current in a snaj 'Snapsh	state of the Virtual Machine wil oshot. Revert to snapshot ot_Name <provide_snapshot_na< th=""><th>l be lost unless it has been me>'?</th><th>n saved</th></provide_snapshot_na<>	l be lost unless it has been me>'?	n saved
		Yes	No
III > Delete Al		Edit	
		Close	

3. 单击 Yes。Revert snapshot状态在"Recent Tasks"列表中显示为Completed。

Ne Edit Yaw Inventory Administration Proprint Help				
C C C Tank & C Tentery & C Tentery				
COUNTRY COUNTRY COUNTRY COUNTRY COUNTRY COUNTRY COUNTRY COUNTRY COUNTRY COUNTRY COUNTRY COUNTRY COUNTRY COUNTRY COUNTRY COUNTRY	a Virtual Machine 1 a Virtual Machine 1 machine is a software computer that, like a computer, runs an operating system and one. An operating system stated on a unbala is called a guest operating system. - every virtual machine is an isotated or a unbala is called a guest operating system states on a unbala is called a guest operating system. - every virtual machine is an isotated or a unbala context provides the virtual machine sectors system on hosts. The same host can run tal machines. asks gend the virtual machine system bits in the sectors.	Control Descention		over tet 2
lacent Tasks		Name, Target or Datus	containe: • [Cear
Name Target ① Eventual/Miconfganten ③ Difoxed spinit_22_beter 81_22_beter 81_22_b	Series Georgenet Georgenet Georgenet Georgenet	Detail	planety space reat space reat	Reported Stat Tee U(\$12552) 1858-01 A# U(\$12552) 1858-01 A# U(\$12552) 1858-01 A# U(\$12552) 1858-01 A#

最近的任务

4. 右键点击VM,选择Power > Power On打开VM。

CXCloudAgent_2.2_Build-35_	10.126.77.229 environment,	you c	an use virtual m	achines as	deskt
CXCloudAgent_2.2_Build-35	122 áditva test workstation o	oviror	nments, as testin	a environa	ents,
CXCloudAgent_2.2_Buil	Power •		Power On	Ctrl+B	
CXCloudAgent_2.2_Bull	Guest •		Power Off	Ctrl+E	
CXCloudAgent_2.2_Buil	Snapshot •		Suspend	Ctrl+Z	can n
CXCloudAgent_2.2_Buil	Open Console		Reset	Ctrl+T	
CXCloudAgent_2.2_Buil	Edit Settings		Shut Down Guest	Ctrl+D	
CXCloudAgent_2.2_Buil	Upgrade Virtual Hardware		Restart Guest	Ctrl+R	
CXCloudAgent_2.2_Buil	Add Permission Ctrl+P	h the	virtual machin	ie.	
CXCloudAgent_2.2_Buil	Report Performance				
CXCloudAgent_2.2_Buil	Rename	ial m	achine setting	5	
CXCloudAgent_2.2_Buil	Open in New Window Ctrl+Alt+N				
CXCloudAgent_2.2_Bull	Remove from Inventory				
CXCloudAgent_2.2_Buil	Delete from Disk				
DHCP_SERVER_DND					

安全

CX云代理可确保客户获得端到端安全性。CX云和CX云代理之间的连接是TLS安全的。云代理的默 认SSH用户仅限于执行基本操作。

物理安全

在安全的VMware服务器公司中部署CX云代理OVA映像。OVA 通过思科软件下载中心安全共享。引导加载程序(单用户模式)密码设置为随机唯一密码。用户必须参考此<u>FAQ</u>才能设置此引导加载程 序(单用户模式)密码。

账户安全

在部署过程中,会创建cxcadmin用户帐户。用户在初始配置期间强制设置密码。cxcadmin用户/凭 据用于访问CX云代理API和通过SSH连接到设备。

cxcadmin用户具有权限最低的受限访问权限。cxcadmin密码遵循安全策略,是单向散列密码,有效 期为90天。cxcadmin用户可以使用名为remoteaccount的实用程序创建cxcroot用户。cxcroot用户可 以获取root权限。

网络安全

可以使用SSH和cxcadmin用户凭证访问CX云代理VM。传入端口限制为 22 (SSH)、514(系统日志)。

身份验证

基于密码的身份验证:设备维护单个用户(cxcadmin),使用户能够进行身份验证并与CX云代理通信 。

• 使用 SSH 在设备上执行 root 特权操作

cxcadmin用户可以使用名为remoteaccount的实用程序创建cxcroot用户。此实用程序显示 RSA/ECB/PKCS1v1_5加密密码,该密码只能从SWIM门户 (<u>https://swims.cisco.com/abraxas/decrypt</u>)解密。只有授权人员才能访问此门户。cxcroot用户可使 用此解密的密码获取root权限。密码短语仅持续两天。cxcadmin用户必须重新创建帐户,并在密码 到期后从SWIM门户获取密码。

强化

CX云代理设备遵循互联网安全中心强化标准。

数据安全

CX Cloud Agent 设备不存储任何客户个人信息。

设备凭证应用程序(作为其中一个Pod运行)将加密的服务器凭证存储在安全数据库中。收集的数 据不会以任何形式存储在设备内,除非在处理时临时存储。收集完成后,遥测数据会尽快上传到 CX云,并在确认上传成功后立即从本地存储中删除。

数据传输

注册包包含所需的唯一<u>X.509设</u>备证书和密钥,用于与lot核心建立安全连接。使用该代理通过传输 层安全(TLS)v1.2使用消息队列遥测传输(MQTT)建立安全连接

日志和监控

日志不包含任何形式的个人身份信息(PII)数据。审核日志会捕获在CX云代理设备上执行的所有安全 敏感型操作。

思科遥测命令

CX云使用<u>Cisco遥测命令</u>中列出的API和命令检索资产遥测。本文档根据命令对Cisco DNA Center资产、诊断网桥、Intersight、合规性见解、故障以及CX云代理收集的所有其他遥测源的适用 性对命令进行分类。

资产遥测中的敏感信息在传输到云之前会被屏蔽。CX云代理会屏蔽所有已收集资产的敏感数据,这 些资产会直接向CX云代理发送遥感勘测。这包括密码、密钥、社区字符串、用户名等。控制器在将 此信息传输到CX云代理之前,为所有控制器管理的资产提供数据掩码。在某些情况下,控制器管理 的资产遥感勘测可以进一步匿名化。请参阅相应的<u>产品支持文档</u>,了解有关遥测匿名化的详细信息 (例如,《Cisco DNA Center管理员指南》的<u>匿名数据</u>部分)。

虽然无法自定义遥测命令列表且无法修改数据掩码规则,但客户可以通过指定数据源来控制哪些资 产的可遥测CX云访问,如控制器受管设备的产品支持文档或本文档的连接数据源部分所述(针对 CX云代理收集的其他资产)。

安全汇总

安全特性	描述
引导加载程序密码	引导加载程序(单用户模式)密码设置为随机唯一密码。用户必须参考 <u>FAQ</u> 来 设置其引导加载程序(单用户模式)密码。
用户访问权限	SSH: ·使用cxcadmin用户访问设备要求在安装期间创建凭证 ·使用cxcroot用户访问设备需要授权人员使用SWIM门户解密凭证
用户帐户	· cxcadmin:已创建默认用户帐户;用户可以使用cxcli执行CX云代理应用程序 命令,对设备的权限最低;cxcroot用户及其加密密码使用cxcadmin用户生成 · cxcroot:cxcadmin可以使用实用程序"remoteaccount"创建此用户;用户可使 用此帐户获得root权限
cxcadmin 密码政策	·使用SHA-256对密码进行单向哈希处理,并安全地存储密码 ·至少八(8)个字符,包含以下类别中的三个:大写、小写、数字和特殊字符
cxcroot 密码政策	· cxcroot密码是RSA/ECB/PKCS1v1_5加密的

	·生成的密码需要在SWIM门户中解密 · cxcroot用户和密码有效期为两天,可以使用cxcadmin用户重新生成
SSH 登录密码政策	·最少八个字符,包含以下类别中的三个:大写、小写、数字和特殊字符 ·五次失败的登录尝试将登录框锁定30分钟;密码将在90天后过期
端口	开放传入端口 – 514(系统日志)和 22 (SSH)
数据安全	·未存储客户信息 ·未存储设备数据 ·加密并存储在数据库中的Cisco DNA Center服务器凭证

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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