CX云代理概述v2.0

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| 收集失败响应 | |
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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)云代理是一个现代化的模块化内部部署软件平台 ,可托管轻量级容器化微服务功能。这些功能可以在客户本地从云端进行安装、配置和管理。CX Cloud Agent加速新产品的货币化,扩展功能,并帮助开发由大数据、分析、自动化、机器学习/人 工智能(ML/AI)和流驱动的下一代服务。

注意:本指南面向CX云代理v2.0用户。请参阅<u>Cisco CX云代理</u>以获取其他相关信息。



CX Cloud Agent 架构

💊 注意: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:

- 以下任何虚拟机监控程序:
 - 。VMWare ESXi版本5.5或更高版本
 - Oracle Virtual Box 5.2.30
 - 。Windows虚拟机监控程序版本2012到2016
- 虚拟机监控程序可以托管具有以下要求的虚拟机:

- [。] 8 核心 CPU
- ◎ 16 GB 内存/RAM
- ◎ 200 GB 磁盘空间
- 对于将指定的思科美国数据中心用作存储CX云数据的主要数据区域的客户: CX云代理必须能够使用FQDN和TCP端口443上的HTTPS连接到此处显示的服务器:

FQDN : agent.us.csco.cloud

FQDN : ng.acs.agent.us.csco.cloud

FQDN : cloudsso.cisco.com

FQDN : api-cx.cisco.com

- 对于将指定的思科欧洲数据中心用作存储CX云数据的主要数据区域的客户: CX云代理必须能够使用FQDN和TCP端口443上的HTTPS连接到此处显示的两个服务器: 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
- 对于将指定的思科亚太地区数据中心用作存储CX云数据的主要数据区域的客户: CX云代理必须能够使用FQDN和TCP端口443上的HTTPS连接到此处显示的两个服务器:
- 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
- 对于使用指定的思科欧洲和思科亚太数据中心作为其主要数据区域的客户,只有在初始设置期间向CX云注册CX云代理时,才需要连接到FQDN:agent.us.csco.cloud。在CX云代理成功注册到CX云后,此连接不再需要。
- 对于CX云代理的本地管理,必须可以访问端口22。

有关 CX Cloud Agent 的其他说明:

- 如果在VM环境中启用了动态主机配置协议(DHCP),将自动检测IP。否则,必须提供一个可用的IPv4地址、子网掩码、默认网关IP地址和DNS服务器IP地址。
- 仅支持IPv4,不支持IPv6。
- 需要从1.2.8到1.3.3.9以及2.1.2.0到2.2.3.5的认证单节点和高可用性(HA)集群思科数字网络架构(DNA)中心版本。
- 如果网络具有SSL拦截,则允许列表CX云代理的IP地址。

关键域访问

要启动CX云之旅,用户需要访问这些域。

| 主要域 | 其他域 |
|-----------|--------------|
| cisco.com | mixpanel.com |

| csco.cloud | cloudfront.net |
|------------|---------------------|
| split.io | eum-appdynamics.com |
| | appdynamics.com |
| | tiqcdn.com |
| | jquery.com |

特定于区域的域:

| 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 |
| ng.acs.agent.us.csco.cloud | agent.emea. <u>csco.cloud</u> | agent.apjc. <u>csco.cloud</u> |
| | ng.acs.agent.emea. <u>csco.cloud</u> | ng.acs.agent.apjc.csco.cloud |

升级到CX云代理v2.0的先决条件

在升级到CX Cloud Agent v2.0之前必须满足本部分列出的必备条件。

- 1. 确保在开始升级之前必须安装CX Cloud Agent v1.12.x及更高版本。
- 2. 如果尚未配置域名服务器,请执行以下步骤来配置该服务器:
 - 1. 登录到CX云代理虚拟机的命令行界面(CLI)控制台。
 - 2. 执行cxcli agent configureDNS命令。
 - 3. 输入DNS IP地址。
 - 4. 单击。Exit

- 确保客户的网络允许<u>关键域访问</u>中的域名在迁移期间完成云代理重新注册。CX云代理必须能够访问这些域,并且这些域必须能
- 在启动v2.0升级之前拍摄云代理VM快照(需要正确访问)。

♦ 注意:1.10之前的版本必须首先升级到v1.10,然后逐步升级到v1.12.x,再升级到v2.0。用户可以从CX云门户中的Admin Setting

成功安装需要满足以下条件:

1. DNAC及其凭证列表

2. 具有管理员或观察员角色访问权限的DNAC用户

3. DNAC集群的虚拟IP地址或独立/物理IP地址

4. 云代理和DNAC之间的成功可达性

5. DNAC必须至少有一台受管设备

Cisco DNA Center 认证版本

认证单节点和 HA 集群 Cisco DNA Center 版本为 1.2.8 至1.3.3.9 和 2.1.2.0 至 2.2.3.5。



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,我们建议使用以下浏览器的最新正式版本:

- Google Chrome
- Microsoft Edge
- Mozilla Firefox

部署CX云代理

要部署 CX Cloud Agent,请执行以下操作:

1. 点击 cx.cisco.com以登录到 CX Cloud。

2. 选择Campus Network并导航到ASSETS & COVERAGE磁贴。

| cisco CX Cloud AME | RICAN SOCIETY OF COMPOSERS AUTHORS AND PUBLISHERS | | | Search | | | • • • | 0 |
|-----------------------------|---|--|---------------------|-----------------------------|---|---|-----------------|----------------|
| 👚 (My Particle: Carrous Net | Nork 🗸 Select 🗸 | | | | | | 9 Automation | Jobs |
| 49% | ADOPTION LIFECYCLE | Expert Recommendations 945 Upcoming Engagements 0 EXPERT ENGAGEMENTS | (| Advisor Advisories | 7 137 000es 5 8hgs 19 | Open Cases Open Cases With RA CASES | 816 5 | > |
| Assets Coverage | Licenses | | | | | OET HELP | T Fil | ers x |
| 3 | Connected Hardistre | Coverind | 201 | Priority Bugs Field Notices | Next 6 n 6 - 12 n 12 - 24 5 24 + n | torthe I forme I forme II | Dur Bort | ¢ m pa > |
| TOTAL | ASSET TYPE CONNECTION | STATUS ODVER | NGE | ADVISORIES | LAS | T DATE OF SUPPORT | | RC |
| Set up DX Cloud Ag | ent and connect with Claco DNA Center to see complete information | ition about your network. This pro- | cess may take 2-3 f | iours. | | Set Up C | K Cloud Agent | |
| All + dn1 | x | | | | | | | 31 |
| Assets 3 Total | | | | | | | | |
| Name Product ID | Product Description | Critical Security Advisories | Location | Coverage Status | Software Type | Software Release | IP Address O | |
| FCH2219V0M9 DN1-HW- APL | Gen1 DNA HW Appliance. DN1-HW-APL has an EOL announcement. | | NEW YORK,NY,USA | • | | 8 | 8 | i. |
| FCH2220V000 DN1-HW- | Gen1 DNA HW Appliance. DN1-HW-APL has an EOL | 24 22 | NEW YORK NYUSA | 0 | 623 | 3 | 82 | 1 |

主页

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单击标题中的设置CX云代理。设置CX云代理-审核部署要求窗口打开。

| SET UP CX CLOUD AGENT | Add Cloud Agent to your CX Cloud pit crew |
|--------------------------------------|--|
| 0% | CX Cloud Agent gathers telemetry data from the devices on your network, allowing you to take |
| | advantage of all the hyper-relevant insights and trusted expertise that CX Cloud has to offer. |
| Review Deployment Requirements | |
| Accept Strong Encryption Agreement | |
| Download Image File | Review deployment requirements |
| | |
| Deploy and Pair with Virtual Machine | Prepare your network for CX Cloud Agent |
| | CX Cloud Agent runs as a virtual machine (VM), so you'll need a hypervisor to host it. Refere you download and install the impose file, make sure CY Cloud Agent is able to connect to the decignated constr(c) up UTTPS on port 442 uping both the |
| | FQDN and the IP address: |
| ÷ | For AWS US data centers: |
| | - FQDN: agent.us.csco.cloud |
| | - FQDN: ng.acs.agent.us.csco.cloud |
| | - FQDN: cloudsso.cisco.com |
| | - FQDN: api-cx.cisco.com |
| | Review the CX Cloud Agent Overview for complete hardware and software prerequisites. |
| | CX Cloud takes security seriously. Review the Security section of the CX Cloud Agent Overview to learn how CX Cloud Agent handles and stores your data. |
| | |
| | I set up this configuration on port 443 |
| | Continue |

审核部署要求

• 阅读查看部署要求中的必备条件,并选中I set up this configuration on port 443复选框。

5. 单击继续。将打开Set Up CX Cloud Agent - Accept the strong encryption agreement窗口。

| t Up CX Cloud Agen | t | | × | 0 |
|--|--|---|---|---|
| T UP CX CLOUD AGENT | Accept the strong encry Then you can download the image file for the C | rption agreement x Cloud Agent virtual machine. | | |
| Review Deployment Requirements Accept Strong Encryption Agreement Download Image File Deploy and Pair with Virtual Machine | Instructions To apply for eligibility to download strong o 1, Ensure the address listed in your Cisco. 2. Read each of the conditions below caref | ncryption software images: con User Profile is correct and complete. ully prior to selecting your answer. | | |
| | First Name Samuel | Last Name Deckard | | |
| | Email tadeckar@cisco.com | Cisco User Id CXSuperAdmin38333 | | |
| Q.♥ | Business Division's Function: Commercial/Civilian entity Government entity, a Military entity or Defer If Government entity, a Military entity or Defer Austria, Australia, Belgium, Canada, Cyprus, Italy, Japan, Latvia, Lithuania, Luxembourg, N Sweden, Switzerland, United Kingdom or the Yes No | ense Contractor ise Contractor, Are you in Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, lalta, Netherlands, New Zealand, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, United States. | | |
| | Confirmation • By checking this field, I hereby certify this abide by the conditions set forth above r | It I, as a duly authorized representative of the organization, understand and agree to egarding the usage of Cisco Systems, Inc. hardware and/or software. | | |
| | Continue | | | |
| | | | | |

6. 验证名字、姓氏、电子邮件和CCO用户Id字段中预填充的信息。

7. 选择适当的 Business division's function.

8. 选择Confirmation复选框同意使用条件。

9. 单击继续。设置CX云代理-下载映像文件窗口打开。



10. 选择适当的文件格式下载安装所需的映像文件。

11. 选中I accept复选框同意思科最终用户许可协议。

12. 单击下载并继续。将打开设置CX云代理-部署和配对虚拟机窗口。

13. 请参阅OVA安装的<u>网络配置</u>,然后继续下一部分安装CX云代理。

将CX云代理连接到CX云

1. 输入控制台对话框或命令行界面(CLI)中提供的配对代码。

| | | | • He |
|--------------------------------------|---|---|------|
| et Up CX Cloud Ager | nt | × | [|
| | Deploy and pair with your virtual machine | | |
| SET UP CX CLOUD AGENT 75% | Deploy the downloaded file on your virtual machine. After deployment, you'll receive a pairing code. Please enter the code below. | | |
| Devices Danksmant Dansingments | Pairing Code | | |
| Accept Strong Encryption Agreement | | | |
| Download Image File | CONTRACE | | |
| Deploy and Pair with Virtual Machine | | | |
| | | | |
| ···· | | | |
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| | | | |

配对代码

2. 点击继续注册CX云代理。Set Up CX Cloud Agent - Registration successful窗口将显示几秒钟,然后会自动导航至Configure Con

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



| | Help |
|---|------|
| | 0 |
| | × |
| | |
| Configure connection to CX Cloud | |
| Connect a Cisco DNA Center | |
| | |
| in Address of Adum Location (City, State, Country) | |
| Username Password | |
| Collection Energiancy Time | |
| Frequency V Time V IST V | |
| Run the first collection now (this may take up to 75 minutes) | |
| The first data source you add must be a Cisco DNA Center. After that you can add additional Cisco DNA Centers and devices not connected | |
| to a controller. | |
| Connect This Data Source | |
| | |
| | |
| | 而 |

3. 输入数据,然后单击Connect This Data Source。系统随即会显示确认消息"成功连接"。

Configure connection to CX Cloud

Successfully Connected



Connect another data source to CX Cloud Agent?



DNACE



◆ 注意:点击Add Another Cisco DNA Center以添加多个DNAC。

Configure connection to CX Cloud

Successfully Connected

| Cisco DNA Center live.com Inventory collection runs every day At 02:00 AM IST First inventory collection will run immediately when you finish adding your data sources | |
|--|--|
| Cisco DNA Center live.com Inventory collection runs every day At 01:00 AM IST First inventory collection will run immediately when you finish adding your data sources | |
| Cisco DNA Center demo.com Inventory collection runs every day At 01:00 AM IST First inventory collection will run immediately when you finish adding your data sources | |

Connect another data source to CX Cloud Agent?



已添加多

4. 单击完成连接数据源。数据源窗口打开。

| Data Storage Region: United Sta | tes | | | |
|---|--|--|---------------------|-----------|
| Connect Meraki Dashboar | d to CX Cloud to get insights and additional systems infor | mation about your Meraki assets. Get set up in about 10 minutes. | Add Meraki (| Dashboard |
| Add a Data Source | | | Search data sources | C |
| 3 Total Data Sources | | | | |
| Name | Туре | Data Last Updated | Status | |
| CX Cloud Agent | CX Cloud Agent v2.0.3 | 1 minutes ago | Running | |
| 10.197.238.126 | Cisco DNA Center | 1 minutes ago | Reachable | |
| 22.1.90.1 | Cisco DNA Center | 1 minutes ago | Reachable | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

部署和网络配置

可以选择以下任一选项来部署CX云代理:

- 如果选择 VMware vSphere/vCenter 胖客户端 ESXi 5.5/6.0,请转至<u>胖客户端</u>
- 如果选择 VMware vSphere/vCenter Web 客户端 ESXi 6.0,请转至 Web 客户端 vSphere 或<u>中心</u>
- 如果选择 Oracle Virtual Box 5.2.30,请转至 Oracle VM
- 如果选择 Microsoft Hyper-V,请转至 <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. 下载映像后, 启动VMware vSphere客户端并登录。

| 🖉 VMware v | Sphere Client | | | × |
|--|---|---|--|-------|
| vmware VMware v Client | e ∙Sphere™ | | | |
| All vSj availa vSphe featur | ohere features ble only throug re Client will co re set as vSphe | introduced in vSphere 5. In the vSphere Web Clien Intinue to operate, suppo Pre 5.0. | 5 and beyond are t. The traditional rting the same | |
| To directly i To manage vCenter Se | manage a single multiple hosts, rver. | e host, enter the IP addre enter the IP address or r | ess or host name. name of a | |
| IP add User n Passwi | ress / Name: ame: ord: | 10.126.77.60 root | • | |
| | | Use Windows session | on credentials Login | Close |

登录

2. 导航至 File > Deploy OVF Template.

| New Market and the second | | | | |
|--|---|---|---|---------------------------|
| tory > () Inventory | | | | |
| Deploy OVF Template | | | | |
| Deport + | | | | |
| Report + | localhost.localdomain VHware E | 584, 5.5.0, 1623387 | | |
| Browse VA Marketplace Bal_visheu_10.126.77.111 | Getting Started Summary With | al Hachines Resource Allocation | Performance, Configuration, Local Users & Groups, Events, Permiss | |
| Print Maps Print Maps Print Maps | General | | Resources | |
| Exit Concernent Control (1971) 112 Concernent Control (1972) 112 Control (1 | Manufacturer: Model: | Cisco Systems Inc UCSC-C220-M35 | CPU usage: 3120 HMz Capacity 55 x 2.899 GHz | |
| CXCoudAget_112_Build 12_sights_126.77.136 CXCoudAget_112_Build 12_sights_126.77.136 CXCoudAget_112_Build 12_sights_126.77.136 | CPU Cores: Processor Type: | 26 CPUs x 2.899 GHz Intel(R) Xeon(R) CPU ((5-2690 | Memory usage: 40345.00 M8 Capacity 65475-40 M8 | |
| CXCloudAgert_1.12_Build-3_vishru_10.126.77.136 CXCloudAgert_1.12_Build-4_vishru_10.126.77.136 | License: | 0 @ 2.900Hz Whitere Sphere SEnterprise Plus Lucensed for 2 shudir | Storage / Drive Type Capacity | |
| ClCloudApent_1.12_Build-5_vishru_10.126.77.136 ClCloudApent_1.12_Build-5_vishru_10.126.77.136 | Processor Sockets: | 2 | datastore1(11) Non-SSD 3.43 TB 97: | |
| CXCloudAgent_1.12_Build-7_vishnu_10.126.77.136 | Cores per Socket: | | < 3 | |
| CXCloudApent_1.12_Build-7_vishnu_192.368.1.300 | Logical Processors: | 32 | Network. Type | |
| CXCloudApert_12_Build-21_192.168.1.100 | Hyperthreading: | Active | 2 VM Network Standard port group | |
| CXClaudaneet 1.5 Build-8 visheu 10.126.77.136 | Number of NCs: | 2 | 2 VM NAT Standard port group | |
| CXCloudApent_1.6_Build-8_vishnu_10.126.77.136 | State: | Connected | 2 VM NAT 2 Standard port group | |
| CXCloudAgent_1.7_Build-10_vishnu_10.126.77.136 | virtua Pachries and rempartes: | 36 | < >> | |
| CXCloudAgent_1.7_Build-7_viohru_10.126.77.111_demo_anush: CXCloudAgent_1.8_Build-8_1_signed_Viohru_20.126.77.111_spt | VMware EVC Mode: | Deabled | Fault Tolerance | |
| CXCloudApert_1.9_Build 6_violnu_10.126.77.136 CXCloudApert_1.9_Build 6_violnu_10.126.77.136 CXCloudApert_2.6_Build 121_violnu_192.568.1.500_112 | vSphere HA State Host Configured for PT: | (B NA NA | Pault Tolerance Version: \$.0.0-5.0.0-5.0.0 Refresh Virtual Machine Counts | |
| CCCoudAgent_2.0_8u80.131_vishtvu_10.126.27.111 CCCoudAgent_2.0_8u80.131_vishtvu_192.168.1.100_208 | Active Tasks: Host Profile: | NA | Total Primary VMs: 0 Powered On Primary 1Ms: 0 | |
| CiCloudAgent_2.0_Build-136_vishnu_192.568.1.500_208 CiCloudAgent_2.0_Build-137_corona_scan | Image Profile: Profile Compliance: | ESI-5.5.0-20140302001-81 | Total Secondary VMs: 0 Powered On Secondary VMs: 0 | |
| CXCloudApert_2.0_Build-137_signed_demo_10.126.77.111 CXCloudApert_2.0_Build-137_sishnu_192.168.1.100_208 | DrectPath 1/0: | Supported 💬 | Host Hanagement | |
| 3 | Commande | | | |
| Tasks | | | | Name, Target or Status co |

vSphere 客户端

• 浏览并选择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 |
| | |
| | Browse |
| | Enter a URL to download and install the OVE 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. |
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| Help | Cardy Naveta Carad |
| , and the second s | < DALK NEXT > Cancel |
| | |

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 \times

OVA 路径

[•] 验证OVF Details并单击Next。

| Deploy OVF Template OVF Template Details Verify OVF template details | 5. | | | - | | × |
|--|--|---|--------|--------|-----|------|
| Source OVF Template Details Name and Location Disk Format Network Mapping Ready to Complete | Product: Version: Vendor: Publisher: Download size: Size on disk: Description: | CXCloudAgent_2.0_Build-144 2.0 Cisco Systems, Inc CISCO SYSTEMS, INC. 1.1 GB 3.1 GB (thin provisioned) 200.0 GB (thick provisioned) CXCloudAgent_2.0_Build-144 | | | | |
| Help | | | < Back | Next > | Car | ncel |

- 模板详细信息
- 输入Unique Name(应使用接口编号替换此处的x),然后单击Next。

| Deploy OVF Template | - | | × |
|--|---|------|-------|
| Name and Location Specify a name and loca | tion for the deployed template | | |
| | | | |
| Source | Name: | | |
| Name and Location | CXCloudAgent_2.0_Build-144_DEMO | | |
| Disk Format | The name can contain up to 80 characters and it must be unique within the inventory fol | ler. | |
| Network Mapping | | | |
| Ready to Complete | | | |
| | | | |
| | | | |
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| | | | |
| Help | < Back Next > | 1 | ancel |
| | < DOCK NEXT > | | ALC I |

名称和位置

• 选择一个Disk Format,然后点击Next (建议使用精简配置)。

🚱 Deploy OVF Template

– 🗆 🗙

Disk Format

In which format do you want to store the virtual disks?

| Source OVF Template Details Name and Location Disk Format Network Mapping Ready to Complete | Datastore: Available space (GB): | datastore 1 (11) 973. 1 | | |
|--|--|----------------------------|-----------|-------------|
| | Thick Provision Lazy Ze Thick Provision Eager Z Thin Provision | roed eroed | | |
| Help | | | < Back Ne | xt > Cancel |

磁盘格式化

• 选中Power on after deployment复选框,然后点击Finish。

🕝 Deploy OVF Template

Are these the options you want to use?

| sk hormat | OVE files | Cillinger burg desig Devenies de 101/101/CVCI en désert 20 |
|-----------------|---------------------------|--|
| twork Mapping | Overne: | C: (Users (occadmin (Downloads (OVA (CACloudAgenc_20. |
| ady to Complete | Download size: | 1.1 GB |
| | Size on disk: | 3.1 GB |
| | Name: | CXCloudAgent_2.0_Build-144_DEMO |
| | Host/Cluster: | localhost. |
| | Datastore: | datastore1 (11) |
| | Disk provisioning: | Thin Provision |
| | Network Mapping: | "VM Network" to "VM Network" |
| | | |
| | Power on after deployment | |
| | | |

准备完成

部署可能需要几分钟。请等待,直到收到部署成功的消息。



- 🗆 🗙

正在部署



已完成部署

• 选择刚部署的VM,打开控制台并转到<u>Network Configuration</u>。

Web 客户端 ESXi 6.0 安装

此客户端使用vSphere Web部署CX云代理OVA。

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

| vm | ware* | |
|-----------------------|-------|---------------------|
| | | |
| User name Password | Login | vm ware esxi |
| | | |

VMware ESXi 登录

2. 选择.Virtual Machine > Create / Register VM

| ← → ♂ ○ ▲ ○ | |
|-------------------|--|
| vmware' esxi* | |
| Ta Navigator | est.localdomain |
| Manage Monitor | nage with vCenter Server Create/Register VM Constituted Machine Iocalhost.localdomain Version: 6.0.0 Update 3 (Build 10719132) State: Normal (connected to vCenter Server at 10.126.77.54) Uptime: 182.07 days |

| 182.07 days | | _ | |
|---------------------|---|-----|--|
| New virtual machine | Select creation type How would you like to create a Virtual Machine? Create a new virtual machine Deploy a virtual machine from an OVF or OVA file Register an existing virtual machine | < > | This option guides you through the process of creating a virtual machine from an OVF and VMDK files. |
| | | | Back Next Finish Cancel |
| Tarnel | v lottalor v Oueve | A | a Claded as Decolor |

OVA 部署

- 选择Deploy a virtual machine from an OVF or OVA file,然后单击Next。
- 输入VM的名称,浏览以选择文件,或拖放下载的OVA文件。
- 单击。Next



OVA 选择

• 选择Standard Storage,然后单击Next。

| 182.07 davs | nt 2.0 DEMO | | | | | | |
|---|--|--------------------|-------------------|------------------|------------|--------|----------|
| 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 storage type and datastore Standard Persistent Memory Select a datastore for the virtual machine's of | configuration file | es and all of its | ' virtual disks. | | | |
| | Name ~ | Capacity 🗸 | Free ~ | Type ~ | Thin pro v | Access | ~ |
| | datastore1 | 4.35 TB | 3.57 TB | VMFS5 | Supported | Single | 2 |
| | | | | | | | |
| vm ware [.] | | | | | | | |
| | | | B | ack N | ext Finis | sh C | ancel |



| 182.07 davs | nt 2.0 DEMO | |
|---|---|-----------------------------------|
| 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 VM Corporate Network ~ |
| | Disk provisioning | Thin () Thick |
| | Power on automatically | |
| vmware [.] | | |
| | | |
| | 1-10-10-1 | Back Next Finish Cancel |

部署选项

• 选择适当的部署选项,然后单击Next。

1 New virtual machine - CX Cloud Agrnt 2.0 DEMO

| 1 Select creation type 2 Select OVF and VMDK files 3 Select storage | Ready to complete Review your settings selection before | finishing the wizard |
|---|---|---|
| 4 Deployment options 5 Ready to complete | Product VM Name Disks Datastore Provisioning type Network mappings Guest OS Name Do not refresh your bro | CXCloudAgent_2.0_Build-144 CX Cloud Agent_2.0_Build-144-1_signed-sha1-disk1.vmdk datastore1 Thin VM Network: VM Corporate Network Unknown |
| | | Back Next Finish Cancel |

准备完成

| <u>File Edit View Higtory Bookmarks I</u> | jools <u>H</u> elp | | | | | | | | - 0 | × |
|---|---------------------------------|-----------------------|-------------|---------------|---------|---------------------|--|---|--------------------|--------|
| Plocalhost.localdomain - VMware× | ⊌ New Tab 🛛 🗙 | + | | | | | | | | |
| $\leftrightarrow \rightarrow \circ$ |) 🔒 🕶 https://10.126.77.20/ | 'ui/#/host | | | | | | | \bigtriangledown | Ł ≓ |
| vmware [,] esxi ^{**} | | | | | | root@1 | 0.126.77.2 | 20 - Help - 🤇 | Search | • |
| 📲 Navigator 🖂 | i localhost.localdomain | | | | | | | | | |
| Manage Monitor 12 Storage 1 Networking 3 | | | | | | | 42 % 42 % 18 % 18 % 18 % 18 % 18 % 18 % 18 % 1 | | | |
| | Manufacturer | Cisco Systems In | ic. | | Image | e profile | | (Undated) VMware-ESX | -6.0.0-9313334- | |
| | Model | UCSC-C220-M5S | sx. | | | | | Custom-Cisco-6.0.3.5 (| Cisco) | |
| | | | | | vSnhr | ere HA state | | Not configured | | ~ |
| | 🕄 Recent tasks | | | | | | | | | |
| | Task ~ | Target ~ | Initiator ~ | Queued | ~ | Started ~ | Result A | | Completed • | ~ |
| | Upload disk - CXCloud Agent_2.0 | CX Cloud Agrnt 2.0 D | root | 03/11/2022 14 | 22:19 | 03/11/2022 14:22:19 | Comp | leted successfully | 03/11/2022 14:2 | 5:10 |
| | Download VMXConfig | None | VC Internal | 03/11/2022 14 | 107:51 | 03/11/2022 14:07:51 | Comp | leted successfully | 03/11/2022 14:0 | /:61 |
| | Power On VM | CX Cloud Agrnt 2.0 D | root | 03/11/2022 14 | 4:07:46 | 03/11/2022 14:07:46 | Comp | leted successfully | 03/11/2022 14:0 | /:48 |
| | Import VApp | Resources | root | 03/11/2022 14 | 1:04:47 | 03/11/2022 14:04:47 | Comp | leted successfully | 03/11/2022 14:0 | 7:46 |
| | Reconfig VM | CX Cloud Agrint 2.0 D | VC Internal | 03/11/2022 14 | 105:01 | 03/11/2022 14:05:01 | Canal | d - The operation is not ar | 03/11/2022 14:0 | 101 |
| | Download VMXConing | None | VC Internal | 03/11/2022 14 | 04:51 | 03/11/2022 14:04:01 | U Comp | leted successfully | 03/11/2022 14:0 | ×:01 ¥ |

成功完成

- 检查设置并单击Finish。
- 选择刚部署的VM,然后选择Console > Open browser console。

| <u>File Edit View History Bookmarks</u> | [ools Help | | | | | | - C | x נ |
|--|---|--|---|--|---------------------|---|---|----------|
| Iocalhost.localdomain - VMwarr× | 👋 New Tab | × + | | | | | | |
| $\leftarrow \rightarrow \mathbf{G}$ |) 🔓 🕶 https://10.126.77.2 | 0/ui/#/host/vms | | | | ☆ | | ± = |
| vmware' esxi" | | | | | root@1 | 0.126.77.20 - Help - | Q Search | • |
| Star Navigator | 🚯 localhost.localdomain - Virtu | al Machines | | | | | | |
| Bost Manage Monitor Virtual Machines 12 Storage Networking Storage | Create / Register VM Virtual machine Virtual machine CCCloudAgent_2.0 CCCloudAgent_2.0 CCCloudAgent_2.1 CCCloudAgent_2.1 CCCloudAgent_2.1 CCCCloudAgent_2.1 CCCCloudAgent_2.1 CCCCloudAgent_2.1 CCCCloudAgent_2.1 CCCCloudAgent_2.1 CCCCloudAgent_2.1 CCCCloudAgent_2.2 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC | Console Power Console Power console Copen console in new w Copen copen console in new w Copen copen co | Power off vindow ab be 2 GB 19 GB 48 GB 74 GB k0 47.85 GB k0 47.27 GB k0 47.27 GB | Suspend Guest OS Ubuntu Linu Ubuntu Linu | Refresh | ns Q Sear he Host CPU V h 458 MHz h 0 MHz h 493 MHz h 492 MHz h 492 MHz h 492 MHz h 467 MHz h 506 MHz h 501 MHz | ch Host me ~ 15.61 GB 0 MB 15.81 GB 15.99 GB 16.07 GB 16.03 GB 16.03 GB 16.06 GB 0 MB | |
| | Quick filters | ~ | | | | | 12 items | * 4 * |
| | 😨 Recent tasks | | | | | | | |
| | Task | - Target - | Initiator | Queued ~ | Started ~ | Result 🔺 | ~ Completed • | ~ |
| | Upload disk - CXCloud Agent_2.0 | CX Cloud Agrnt 2.0 D | root | 03/11/2022 14:22:19 | 03/11/2022 14:22:19 | Completed successfully | 03/11/2022 14:2 | 25:10 |
| | Download VMXConfig | None | VC Internal | 03/11/2022 14:07:51 | 03/11/2022 14:07:51 | Completed successfully | 03/11/2022 14:0 | 17:61 |
| | Power On VM | Resources | root | 03/11/2022 14:07:40 | 03/11/2022 14:07:46 | Completed successfully | 03/11/2022 14:0 | 07:48 |
| | Reconfig VM | CX Cloud Agent 2.0 D | VC Internal | 03/11/2022 14:05:01 | 03/11/2022 14:05:01 | Failed - The operation is not al. | . 03/11/2022 14:0 | 5:01 |
| | Download VNIXConfig | None | VC Internal | 03/11/2022 14:04:51 | 03/11/2022 14:04:51 | Completed successfully | 03/11/2022 14:0 | 04:51 🗸 |

打开控制台

• 导航至<u>网络配置</u>。

1. 使用ESXi/虚拟机监控程序凭证登录vCenter客户端。



登录

| vm vSphere Client Menu v Q Search in all environments | | | | C | C ② ~ Admini | strator@iocalos 🗸 | 9 |
|--|---------------------|---------------------|--------------------|-------------------------------------|------------------------------|-------------------|--------------------------|
| Home Shortcuts | Home | | | | | | Î |
| | CPU 1.31 THz f | ree 8 THIZ TOTAL | Memory 2.87 T | B free 4.35 TB total | Storage 76.44 | TB free | 1 |
| Policies and Profiles Auto Deploy Developer Center Velatze Operations | ∂ VMs | | 358 | Hosts | | | 24 |
| Administration Update Manager | 62 Powered On | 292 Powered Off | 4 Suspended | 20 Connected | 2 Disconnected | 0 Maintenance | |
| Tasks Events ✓ Tags & Custom Attributes | G Objects with most | alerts | 7 | Installed Plug VMware vRops Cli | t ins ent Plugin | | 3 |
| Recent Tasks Alarms | < | | | | | | • |
| Task Name ✓ Target ✓ Status ↑ Deploy plug-in Ø 10126.77.54 ✓ Completed | | | VSPHERELOCAL/vspi | tere-webclienz-a79a972a-e72 | - -4a16-a70d-fe3e167a5169 | Queued For v | Start Time 03/16/2022 |
| Check new notifications 🧬 1012637754 🗸 Completed | | | VMware vSphere Upd | ate Manager Check Notificatio | n | 294 ms | 03/16/2022 |
| | | | | | _ | | |
| | | | | | | | More Tasks |

主页屏幕

2. 在主页上,单击Hosts and Clusters。

• 选择VM并点击Action > Deploy OVF Template。

| | nt Menu V Q Search in all envir | | | | | | C O V Administrator | glocalos 🗸 🙄 |
|---|--|--|--|---|---|--|---|---|
| ID 126 FT 54 ID 126 77 54 ID CommonPool ID ID ID Delate ID ID ID Delate ID ID ID ID ID ID ID ID ID ID | ₽ | | 10.126.77.51 Summary Monitor C Hypervice Model Processor Cogical Pro Nicks Victual Made Victual Made Uptime: | ACTIONS - Actions - 10 126 77 51 Actions - 10 126 77 51 New Virtual Machine Depicy OVIT Template New Resource Pool New Resource Pool New VApp Maintenance Mode Connection | Resource F 12 10 0 @ 2.90GHz | Pools Datastores | Networks Updates CPU Used 123 Mrs Used 24 09 Simple Used 387.45 08 | Free: 40.23 (Hz) Cepatry, 41.41 (Hz) Free: 61.31 (Hz) Cepatry, 61.87 (Hz) Free: 3.23 (Hz) Cepatry, 135 (Hz) |
|) in 1008 | | | Hardware Manufacturer Model > CPU Memory > Virtual Flash Resource > Networking | Power Certificates Storage Add Networking Host Profiles Export System Logs Reconfigure for vSphere HA Q+ Assign License Settings | | Configuration Image Profile VSphere HA State > Fault Tolerance (Legacy) > Fault Tolerance > EVC Mode | (Updated) ESX-5.5.0-20 standard 7 N/A Unsupported Unsupported Disabled | 1443302001- |
| Recent Tasks Alam | ne | | - Planes | Move To | | | | 8 |
| Recent Tasks Alarn Task Name V Deploy plug-in | 15 Target @ 10.126.77.54 | ✓ Stetus ↑ ✓ Completed | | Tags & Custom Attributes Remove from Inventory Add Permission | RELOCALIVISPH | ere-webclient-a79a972a-e72 | Ques 2c-4dfd-a70d-fe3ef67a6f69 6 ms | eed For v Start Time |
| Check new notifications | 10.126.77.54 | ✓ Completed | | Alarms Update Manager | • • e vSphere Updat | te Manager Check Notificati | ion 294 | ms 03/16/2022 |
| All v 操作 | | | | | | | | More Tasks |
| 10.12677.54 CommonPool | nt Menu V Q Search in all envir | onments | 10.126.77.51 Summary Monitor C | ACTIONS + configure Permissions VM | s Resource P | Pools Datastores | C 🖉 🗸 Administrator Networks Updates oru | Biocatos Y 🕑 |
| CommonPool CommonPool CommonPool Performance Performance Performance Pattormance PonAc PonAc Security Toois | nt Merru V Q Search in all error | evenents Deploy OVF Template Paleet a name and folder 2 Select a name and folder 3 Select a compute resource 4 Review details 5 Select storage 6 Ready to complete | IO.126.77.51 Summary Monitor C Select an OVF template Select an OVF template from toration accessible from your colory drive. Ourse. Into Intras Remotesserve Incole file Choose File No file ch Or template to de | ACTIONS + ionfigure Permissions VM iremote URL, or local file system I install the OVF package from the lit r computer, such as a local hard driv -saddwss/filetodeploy.orf ovs -saddwss/filetodeploy.orf ovs osen osen | s Resource F nternet, or browsk re, a network shar | Pools Datastores | Administrator Networks Updates Oru Uses 24 00 Uses 24 00 Uses 250-550-20 standard Visupported Unsupported Disabled | Clocaliza V 🕃 |
| Contract Tasks Alam | nt Merru V Q Gearch in all error | evenents Deploy OVF Template Paleet a name and folder 3 Select a compute resource 4 Select at acompute resource 5 Select storage 6 Ready to complete | ID.126.77.51 Summary Monitor C Select an OVF template Select an OVF template from toration accessible from your co/DVD drive. O use, Intp Inters/Hemolaserie Monitor file Choose File No file ch Select an emplate to bre Ove template to bre Select an emplate to bre Select a | ACTIONS + ionfigure Permissions VM inemote URL or local file system is install the OVF package from the life r computer, such as a local hard driv -address/fieltodeploy.orf i.ova -address/fieltodeploy.orf i.ova osen | s Resource R nternet, or browsk e, a network shar | Pools Datastores | Administrator Administrator Administrator Origi Updates Origi Unit 124 08 Propt Origi Unit 244 08 Origi Orintor Origi Origi Orintorigi Origi Origi | Pre: 423 046 * Pre: 423 046 * Caracy 613 06 * Caracy 613 06 * Caracy 613 08 * Pre: 12175 * Caracy 613 08 * Pre: 12176 * Pre: 12176 * Pre: 12176 * |
| CommoRoal Commo | nt Merru → Q. Search in all envir Q Image: Search in all envir | evenents | IO.126.77.51 Summary Monitor C Select an OVF template Select an OVF template Solect an OVF template To download and CD/DVO drive. O Urq. Mod https://emotoserver Local file Choose Files No file cn Soft template (cort, ver) | ACTIONS - configure Permissions VM remote URL or local file system d install the OVF package from the life recomputer, such as a local hard driv -saddress/Netcoseptoy or 1 ova osen along Use multiple selection to select all the dk, etc.) | s Resource F | Pools Datastores | Administration A | Press 63.0 fb/s Careery, 63.8 fb/s 64.0 fb/s Press 33.0 fb/s Press 740.0 fb/s |
| CommonPool CommonPool CommonPool CommonPool CommonPool CommonPool CommonPool CommonPool CommonPool Check new notficeroons | nt Merror → Q: Search in all envir Q: Q: Image: Search in all envir Image: Search in all envir <t< th=""><th>evenerit</th><th>IO.126.77.51 Summary Monitor C Select an OVF template Select an OVF template from toration accessible from your cD/OVD onve. Ourse. Into Intras Remotesence too Intras Remotesence Coocer File No file ch Or template to de Or template to de Or template to che Or template (chr. we</th><th>ACTIONS + ionfigure Permissions VM inemote URL, or local file system install the OVF package from the life roomputer, such as a local hard onv </th><th>s Resource F nternet, or browsk shar re, a network shar r fires associated with</th><th>Pools Datastores</th><th>Administration Administration A</th><th>Prec 423 0%</th></t<> | evenerit | IO.126.77.51 Summary Monitor C Select an OVF template Select an OVF template from toration accessible from your cD/OVD onve. Ourse. Into Intras Remotesence too Intras Remotesence Coocer File No file ch Or template to de Or template to de Or template to che Or template (chr. we | ACTIONS + ionfigure Permissions VM inemote URL, or local file system install the OVF package from the life roomputer, such as a local hard onv | s Resource F nternet, or browsk shar re, a network shar r fires associated with | Pools Datastores | Administration A | Prec 423 0% |
| CommonPool CommonPool CommonPool Device Device Device Device Device DoNAC Device DoNAC | nt Merru → Q. Search in all envir Q Q Image: Search in all envir | unnerst Deploy OVF Template 1 Select a complete resource 2 Select a complete resource 3 Select storage 3 Select sto | IO.126.77.51 Summary Montor C Select an OVF template Select an OVF template from Solect an OVF template from tocation accessible from your CO/OV drive. O use, Into Inters Hemolessive Into Inters Hemolessive Montor Treessing Montreessing Montor Tre | ACTIONS + Configure Permissions VM remote URL, or local file system I install the OVF package from the li computer, such as a local hard driv -address/fiels0de0ky.orf .ow 0569 0590 CANCE | s Resource R nternet, or brows: e, a network shar thes associated with L BACK | Pools Datastores | Administrator Administ | Fire: 433.0% Fire: 433.0% Fire: 33.1% Capany: 8.0% Capany: 8.0% Capany: 8.0% Capany: 8.0% Capany: 8.0% Capany: 8.0% Mathematical State 0.0% add For Sate Time add For 0.0% Sate Time 0.0% add For 0.0% Sate Time 0.0% |

选择模板

- 直接添加URL或浏览以选择OVA文件,然后单击Next。
- 输入唯一名称,如果需要,请浏览至该位置。
- 单击。Next

| Deploy OVF Template 1 Select an OVF template 2 Select a name and folder | Select a name and folder Specify a unique name and target location |
|---|---|
| 3 Select a compute resource 4 Review details 5 Select storage | Virtual machine name: CXCloudAgent_2.0_Build-144-demo |
| 6 Ready to complete | Image: Select a rocation for the virtual machine. Image: Display the virtual machine. Image: Disp |
| | CANCEL BACK NEXT |

名称和文件夹

• 选择计算资源并单击Next。

| I Select an OVF template | Select a compute resource |
|-----------------------------|--|
| 2 Select a name and folder | Select the destination compute resource for this operation |
| 3 Select a compute resource | A Ch Security |
| 4 Review details | > I to the 77.51 |
| 5 Select storage | > [] 10.126.77.51 |
| 5 Ready to complete | |
| | |
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| | |
| | |
| | Compatibility |
| | Compatibility checks succeeded. |
| | |
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| | |
| | |

选择计算资源

• 查看详细信息并单击Next。

Deploy OVF Template

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

Review details

and folder Verify the template details.

3 Select a compute resource 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 | 1.1 GB |
| Size on disk | 3.1 GB (thin provisioned) |
| | 200.0 GB (thick provisioned) |

CANCEL

васк

NEXT

检查详细信息

• 选择虚拟磁盘格式并单击Next。

| 182.07 davs | | _ | _ | _ | _ | _ | |
|---|---|-------------------|-------------------|-----------------|---------------|-----------|--|
| 🔁 New virtual machine - CX Cloud Agr | It 2.0 DEMO | | | | | | |
| 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 storage type and datastore Standard Persistent Memory Select a datastore for the virtual machine's | configuration fil | es and all of its | s' virtual disk | (S. | | |
| | Name ~ | Capacity 🗸 | Free ~ | Туре | ✓ Thin pro… ✓ | Access ~ | |
| | datastore1 | 4.35 TB | 3.57 TB | VMFS5 | Supported | Single 🜔 | |
| | | | | | | 1 items | |
| vmware [.] | | | | | | | |
| | | | В | ack | Next Finis | sh Cancel | |

选择存储

• 单击。Next

| 1 Select an OVF template 2 Select a name and folder | Select networks Select a destination network for each source network. | | | | | | |
|--|--|-----|---------------------|-------|----|--|--|
| 3 Select a compute resource 4 Review details | Source Network | Ψ | Destination Network | | T | | |
| 5 Select storage | VM Network | | VM Network | Ý | Ĵ. | | |
| 6 Select networks | | | | 1 ite | ms | | |
| ready to complete | IP Allocation Settings | | | | | | |
| | IP allocation: | Sta | atic - Manual | | | | |
| | IP protocol: | IP\ | /4 | | | | |
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选择网络

• 单击。Finish

Deploy OVF Template

| Review details | | |
|--|------------------------|--|
| 5 Select storage | Provisioning type | Deploy from template |
| 6 Select networks 7 Ready to complete | Name | CXCloudAgent_2.0_Build-144-demo |
| | Template name | CXCloudAgent_2.0_Build-144-1_signed-sha1 |
| | Download size | 1.1 GB |
| | Size on disk | 3.1 GB |
| | 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 |

准备完成

• 已添加新的VM。单击其名称查看状态。

| vm vSphere Client Menu v Q Search in all environments | C 🕐 ~ Adm | | 9 |
|---|---|--|---------------------------------|
| Image: Constraint of the second sec | CXCloudAgent_2.0_Build-144-demo Image: Configure Permissions Datastores Networks Updates Summary Monitor Configure Permissions Datastores Networks Updates Guest OS: Uburbu Linux (64-bit) Concestibility: ESX 50 and later (VM version 8) VMmare Tools: Not running, not installed More Info DVS Name: Launch Web Console 10.126.77.51 | CPU USA O Hz MEMORY O B STORAG 3.27 (| ige r usage e usage GB |
| CCCloudAgent_20_Build-144-demo In Tools | Caunch Remote Console Image: Console Console VM Hardware Image: Console | | < |
| Recent Tasks Alarms | | | × |
| Task Name ✓ Target ✓ Status ↑ Import OVF package 🛄 10126.77.51 | Initiator OS @ Administrator | Queued For v 182 ms | Start Time 03/16/2022 ^ |
| Deploy OVF templete | VSPHERE LOCAL/upix6-extension-e79e972e-e72c-4df6-e7064e3ef67e5f69 | 3 ms | 03/16/2022 |
| Import OVF package 🔲 10/26/7/51 🗸 Completed | Administrator | 93 ms | 03/16/2022 |
| | | |) v |

| 安装完成后,打开VM的电源 | 并打开控制台。 | | |
|---|---|---|--|
| vm vSphere Client Menu v Q Search in all err | vironments | C Ø~ Adr | ninistrator@localos 🗸 |
| 11 12 13 2 | | 🗊 CXCloudAgent_2.0_Build-144-demo 🕨 = 😻 🖗 🗐 actions - | |
| ✓ 00126.77.54 > ○ CommonPool > ○ Dete > ○ Automation > ⓐ Buid-Server > ⓐ DAAC > ⓐ Scunty > ⓐ DA6 77.51 ☆ CXCloudAgent_2.0_Build-144-demo > ⓐ Tools | Actions - CXCoustAgent, 2.0, Build 144 Power Guest OS Snapbots | ummany Monitor Configure Permissions Datastores Networks Updates develt OS: Ubuntu Linux (44-bt) Compatibility: ESI0 S.0 and later (VM version 8) VM ware Tools: Nore info emo Power On cdt+ at + 0 Arrow and the state of | CPU USAGE O HZ MEMORY USAGE O B STORAGE USAGE 3.27 GB |
| | Clone Rault Tolerance VM Policies Template | Support Constant of Const | ~ |
| | Compatibility Export System Logs Edit Settings | byy drive 1 Disconnected ieo card 4 MB Ci device Device on the virtual machine PCI bus that | |
| Ecent Tasks Alarms sk Name Target pont OVF porkage In1267751 ploy OVF semplere CXCloudAgers_2.0_Build 544-demo | Move to folder Rename Edit Notes Tags & Custom Attributes | | V Queued For V Start Til 182 ms 03/16/2 3 3 3 3 3 3 103/16/2 3 103/16/2 3 103/16/2 10 |
| oort.OVF peckage | Alarms Alarms Remove from Inventory Delete from Disk Unclate Manager | Administrator | 93 ms 03/16/ |
| 1 V | v\$AN | | More |

打开控制台

• 导航至<u>网络配置</u>。

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。


Oracle VM

- 1. 打开Oracle VM UI, 然后选择File>Import Appliance。
 - 浏览以导入 OVA 文件。

| Please choose a file to import the virtual appliance from. VirtualBox currently supports importing appliances saved in the Open Virtualization Format (OVF). To continue, select the file to import below. File: /Users/vkukatla/Downloads/2.0 OVA/CXCloudAgent_2.0_Build-144-1_signed-sha1.ova | Applian Please provide Sour | e to import shoose the source to import appliance from. Thi is to import cloud VM from. e: Local File System | is can be a local file system to import OVF a | irchive or one of known cloud se | rvice |
|--|--|--|---|----------------------------------|-------|
| File: /Users/vkukatla/Downloads/2.0 OVA/CXCloudAgent_2.0_Build-144-1_signed-sha1.ova | Please choose a file to import the virtual appliance from. VirtualBox currently supports importing appliances saved in the Open Virtualization Format (OVF). To continue, select the file to import below. | | | | |
| | | e: /Users/vkukatla/Downloads/2.0 OVA/CXClou | JdAgent_2.0_Build-144-1_signed-sha1.ova | | |

• 单击。Import

| | Appliance settings | ntained in the appliance and the suggested settings of the imported VirtualBox machines. You ca | n |
|--|---|---|------|
| | own by double-clicking on the items and disable others using the check boxes below. | | |
| | Virtual System 1 | | |
| | 🌞 Name | CXC | |
| | 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 | |
| | 冒 Guest OS Type | 🛃 Ubuntu (64-bit) | |
| | CPU | 8 | |
| | RAM | 16384 MB | |
| | E Floppy | | |
| | Network Adapter | ✓ Intel PRO/1000 MT Desktop (82540EM) | |
| | Storage Controller (IDE) | PIIX4 | |
| | Storage Controller (IDE) | PIIX4 | |
| | Warnings: | | |
| | - No trusted certificate paths | | |
| | Machine Base Folder: 📄 /Users/ | vkukatla/VirtualBox VMs | ~ |
| | MAC Address Policy: Include on | ly NAT network adapter MAC addresses | 0 |
| | Additional Options: 🗹 Import ha | ard drives as VDI | |
| | Unverified signature by CISCO SYS | ITEMS, INC.! | |
| | | Restore Defaults Go Back Import | Canc |

导入文件

• 选择刚部署的VM,然后单击Start。



VM 控制台启动

| | | Oracle VM VirtualBox Manager | - |
|---|---|---|--------|
| 4 | Appliance settings | | |
| | These are the virtual machines cor change many of the properties sho | ntained in the appliance and the suggested settings of the imported VirtualBox machines. You can own by double-clicking on the items and disable others using the check boxes below. | n |
| | Virtual System 1 | | |
| | 🏶 Name | схс | |
| | Product | CXCloudAgent_2.0_Build-144 | |
| | A few seconds rem | iisk image 'CXCloudAgent_2.0_Build-144-1_signed-sha1-disk1.vmdk' (2/2) | |
| | Guest OS Type | 🚰 Ubuntu (64-bit) | |
| | CPU | 8 | |
| | RAM | 16384 MB | |
| | E Floppy | $\overline{\checkmark}$ | |
| | Network Adapter | Intel PRO/1000 MT Desktop (82540EM) | |
| | Storage Controller (IDE) | PIIX4 | |
| | Storage Controller (IDE) | PIIX4 | |
| | Warnings: | | |
| | - No trusted certificate paths | | |
| | Machine Base Folder: 📄 /Users/v | /kukatla/VirtualBox VMs | \sim |
| | MAC Address Policy: Include onl | y NAT network adapter MAC addresses | ٥ |
| | Additional Options: 🗸 Import ha | ard drives as VDI | |
| | Unverified signature by CISCO SYS | TEMS, INC.! | |
| | | Restore Defaults Go Back Import | Cancel |

正在导入

• 启动VM。系统随即会显示控制台。



打开控制台

• 导航至<u>网络配置</u>。

Microsoft Hyper-V 安装

1. 选择.Import Virtual Machine

| ii a | | Hyper-V Manager | | _ D X |
|-----------------------------|------------------------|--|----|--------------------------|
| File Action View Help | | | | |
| Hyper-V Manager | | | =[| Actions |
| WIN-ALPH2AC9VK | New > | | | WIN-ALPH2AC9VK7 |
| | Import Virtual Machine | State | CF | New 🕨 |
| Hyper-V Settings | | No virtual machines were found on this server. | | 💫 Import Virtual Machine |
| | Virtual Switch Manager | | | Hyper-V Settings |
| | Virtual SAN Manager | | | Virtual Switch Manager |
| | Edit Disk | | | Virtual SAN Manager |
| | Inspect Disk | | | 💋 Edit Disk |
| | Stop Service | | | Inspect Disk |
| | Refresh | | | Stop Service |
| | View | | | Remove Server |
| | Help | | | View |
| | |] | | Z Help |
| | < | ш | | |
| | Snapshots | | | |
| | Shupshots | | -1 | |
| | Details | | | |
| | | No item selected. | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | ļ | |
| Displays the Import Wizard. | | | | |
| enproye the import method | | | | |

Hyper-V 管理器

- 浏览并选择下载文件夹。
- 单击。Next



要导入的文件夹

• 选择VM并点击Next。

| Import Virtual Machine | | | | |
|------------------------|--|--|--|--|
| Select Virtu | al Machine | | | |
| Before You Begin | Select the virtual machine to import: | | | |
| Locate Folder | Name Date Created | | | |
| Select Virtual Machine | CXCloudAgent_2.0_Build-144 3/3/2022 9:29:22 PM | | | |
| Choose Import Type | | | | |
| Summary | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | < Previous Next > Finish Cancel | | | |
| | | | | |
| | | | | |

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

| 2 | Import Virtual Machine | x | | |
|---|---|----|--|--|
| Choose Imp | ort Type | | | |
| Before You Begin Locate Folder Select Virtual Machine | Choose the type of import to perform: C Register the virtual machine in-place (use the existing unique ID) | | | |
| Choose Import Type | Restore the virtual machine (use the existing unique ID) | | | |
| Summary | | | | |
| | < Previous Next > Finish Cance | el | | |

导入类型

- 浏览以选择 VM 文件的文件夹。建议使用默认路径。
- 单击。Next

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

选择文件夹

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

| 2 | Import Virtual Machine × | | | | |
|--|---|--|--|--|--|
| Choose Folders 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: C:\Users\Public\Pocuments\Hyper-V\Virtual Hard Disks\ Browse | | | | |
| | < Previous Next > Finish Cancel | | | | |

用于存储虚拟硬盘的文件夹

• 系统随即会显示VM摘要。验证所有输入并单击Finish。

| 2 | Import Virtual I | Machine | |
|-----------------------------------|--|--|------------|
| Completing | Import Wizard | | |
| Before You Begin Locate Folder | You are about to perform the following Description: | operation. | |
| Choose Import Type | Virtual Machine: | CXCloudAgent_2.0_Build-144 | uild-144\(|
| Choose Import Type | Import Type: | C: Users (vishnu Downloads 2.0 (CXCloud Agent_2.0_Build-1 Conv. (generate new ID) | |
| Choose Destination | Virtual machine configuration folder: | C:\ProgramData\Microsoft\Windows\Hyper-V\ | |
| Choose Storage Folders | Snapshot folder: | C:\ProgramData\Microsoft\Windows\Hyper-V | |
| | Virtual hard disk destination folder: | C: \Users \Public \Documents \Hyper-V \Virtual Hard Disks \ | |
| | < III To complete the import and close this v | vizard, dick Finish. | > |
| | | < Previous Next > Finish Cancel | |

- 成功完成导入后,会在Hyper-V上创建新的VM。打开VM设置。
- 在左侧窗格中选择网络适配器,然后从下拉菜单中选择可用Virtual Switch。



虚拟交换机

• 选择Connect以启动VM。

| ii a | | Hyper-V Manager | | _ □ × |
|------------------------------------|---------------------------------|-------------------------|-----------------------|--------------------------|
| File Action View Help | | | | |
| 🗢 🔿 🙍 🖬 🖬 | | | | |
| Hyper-V Manager | | | | Actions |
| WIN-ALPH2AC9VK7 | Virtual Machines | | | WIN-ALPH2AC9VK7 🔺 🛆 |
| | Name | State Cl | PU Usage Assigned Mem | New > |
| | CACIOUDAgent_2.0_Build-144 | Connect | | 💫 Import Virtual Machine |
| | | Settings | | Hyper-V Settings |
| | | Start | | 🕰 Virtual Switch Manager |
| | | Snapshot | | Virtual SAN Manager |
| | | Move | | 💋 Edit Disk |
| | | Export | | 🖳 Inspect Disk |
| | | Rename | | Stop Service |
| | | Delete | | 🗙 Remove Server |
| | | Enable Replication | | 🔉 Refresh |
| | | Help | | View 🕨 😑 |
| | | | | 🕜 Help |
| | < III | | > | CXCloudAgent_2.0_Bui A |
| | Snapshots | | \odot | onnect |
| | | | | Settings |
| | CXCloudAgent_2.0_Build-14 | 4 | | Start |
| | | | | snapshot |
| | Created: 3/11/202 | 22 2:50:41 PM Clustered | d: No | Move |
| | notes. none | | | S Export |
| | | | | 🛒 Rename |
| | | | | 🛃 Delete |
| | Summary Memory Networking Repli | ication | | 🚏 Enable Replication |
| | < | ш | > | 🛛 Helo 🗸 |
| Launches the Virtual Machine Conne | ction application. | | | |

启动 VM

• 导航至<u>网络配置</u>。

网络配置





VM 控制台

1. 点击Set Password为cxcadmin添加新密码,或点击Auto Generate Password为新密码。



• 如果选择Set Password,请输入cxcadmin的密码并确认。单击Set Password,然后转到步骤3。

| | Set Password |
|--|---|
| In the Password and cxcadmin. When you a | Confirm Password fields, enter and confirm a new password for re finished, select Set Password |
| (Use the Up Arrow an Press the Tab key to | d Down Arrow keys to navigate between fields. select Set Password.) |
| | |
| Userna ne : | cxcadmin |
| Password : | |
| Confirm Password: | |
| L | |
| | |
| | (Set Password) |

新密码

或者,如果选择Auto Generate Password,则复制生成的密码并存储以备将来使用。单击Save Password,然后转到步骤4。

| Autogenerate | d Password | |
|---|--------------------------------|-------------------------|
| Password: SXXXXXXXXXXXX | | |
| Make sure to store this password in a safe p into Cisco CX Cloud Agent. | place. This passwo | ord is required to log |
| After you have stored the password in a safe to the previous screen, select Cancel. | e place, select <mark>S</mark> | ave Password. To return |
| (Save Password) | < Cancel | > |

自动生成的密码

单击Save Password以将其用于身份验证。



保存密码

• 输入IP Address、 Subnet Mask、 Gateway, 然后DNS Server 单击Continue。



网络配置

• 确认条目并单击Yes,Continue。

| | Confirmation |
|---|---|
| Are these entries | correct? |
| IP Address: Subnet Mask: Gateway: DNS: | 192.168.0.100 255.255.255.0 192.168.0.1 192.168.0.64 |
| <yes, cont<="" th=""><th>inue> < No, Go Back ></th></yes,> | inue> < No, Go Back > |

确认

• 要设置代理服务器详细信息,请点击Yes,Set Up Proxy或点击No, Continue to Configuration完成配置并转到步骤8。





• 输入Proxy Address、Port Number、Username和Password。

| 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: | | | | | |
| Port Number: | | | | | |
| Username: | | | | | |
| Password: | | | | | |
| Begin Configuration. | < | No, Go B | ack > | | |

代理配置

• 单击。Begin Configuration完成配置可能需要几分钟。



正在配置

• 复制Pairing Code并返回CX云以继续安装。



配对代码

10. 如果"配对代码"过期,请单击Register to CX Cloud,再次获取该代码。



代码已过期

11. 单击OK。



注册成功

12. 返回<u>将CX云代理连接到CX云</u>部分并执行列出的步骤。

使用CLI生成配对代码的备选方法

用户还可以使用CLI选项生成配对代码。

要使用CLI生成配对代码,请执行以下操作:

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



生成配对代码 CLI

3. 复制Pairing Code并返回CX云以继续安装。有关详细信息,请参阅连接到客户门户。

配置Cisco DNA Center以将Syslog转发到CX云代理

前提条件

支持的Cisco DNA Center版本为1.2.8到1.3.3.9和2.1.2.0到2.2.3.5。

要使用UI在Cisco DNA Center中配置Syslog转发到CX云代理,请执行以下步骤:

- 1. 启动 Cisco DNA Center。
- 2. 转至Design > Network Settings > Network。
 - 对于每个站点,将 CX Cloud Agent IP 添加为系统日志服务器。

| Cisco DNA Center DESIGN | | POLICY PROVISION ASSURANCE PLATFORM | | |
|---|------------------|--|--|--|
| Network Hierarchy | Network Settings | Image Repository Network Profiles Auth Template | | |
| EQ Find Hierarchy | | Network Device Credentials IP Address Pools SP Profiles Wireless | | |
| 〜 緑 Global 〜 緑 Bangalore 暉 BGL 16 | | Setup network properties like AAA, NTP, Syslog, Trap and NetFlow using the "Add Servers" link. Once devices are discovered, DNA Center will deploy using these settings. | | |
| E Socie | | SYSLOG Server = | | |
| | | SYSLOG + | | |

syslog 服务器

💊 注意:

- 配置后,与该站点关联的所有设备都将配置为将级别为"关键"的系统日志发送到CX云代理。

- 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。

启用信息级别系统日志设置

要使Syslog Information级别可见,请执行以下步骤:

1. 导航至 Tools > Telemetry.



| Telemetry Assessment and Configuration | n | | | | | | | |
|--|--|---------------|---------------------|-------------------|---------|------|---------------|------|
| Site View Profile View | | | | | | | | |
| Sites Hierarchy ~ Global | Actions ~ 0 | | | | | Show | All | ~ |
| > 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 Telem | itry |

操作

安全

CX Cloud Agent可确保客户的端到端安全性。CX云和CX云代理之间的连接已加密。CX云代理的安全套接字外壳(SSH)支持11个不同的密码。

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

用户访问权限

CX云用户只能获得身份验证并访问云代理API。

账户安全

在部署时,会创建cxcadmin用户帐户。用户在初始配置期间被迫设置密码。cxcadmin用户/凭据用于访问CX云代理API和通过SSH连接设备。

cxcadmin用户具有权限最低的限制访问权限。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remot

网络安全

CX云代理VM可使用带有cxcadmin用户凭证的ssh进行访问。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加密口令,该口令只能从S

强化

CX云代理设备遵循CIS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(作为其中一个 Pod 运行)将加密的 Cisco DNA Center 服务器凭证存储在安全数据库中。Cisco DNA Center 收集的数据不会以任

数据传输

注册软件包包含所需的唯一X.509设备证书和密钥,用于与Iot核心建立安全连接。使用该代理通过TLS v1.2使用MQTT建立安全连接

日志和监控

日志不包含任何形式的敏感信息。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。

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>常见问题解答</u> 才能设置其引导加载程序(单用户模 |
| 用户访问权限 | SSH : |

| | ・使用 cxcadmin 用户访问设备需要使用安装期间创建的凭证。 ・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 | excadmin:这是创建的默认用户帐户。用户可以使用cxcli执行CX云代理应用程序命令,并且对设备的权限最低。c excroot: cxcadmin可以使用实用程序"remoteaccount"创建此用户。用户可以使用此账户获得 root 权限。 |
| cxcadmin 密码政策 | 密码使用 SHA-256 进行单向散列处理并安全存储。 至少包含八(8)个字符,包含以下类别中的三种:大写、小写、数字和特殊字符 |
| cxcroot 密码政策 | cxcroot 密码已经过 RSA/ECB/ PKCS1v1_5 加密。 生成的密码需要在 SWIM 门户中解密。 cxcroot 用户和密码的有效期最长为两天,可以使用 cxcadmin 用户重新生成。 |
| SSH 登录密码政策 | • 至少包含八(8)个字符,包含以下类别中的三种:大写、小写、数字和特殊字符。 |

| | • 5次失败的登录尝试将锁定该框30分钟。密码有效期为 90 天。 |
|------|------------------------------------|
| | |
| 端口 | 开放传入端口 – 514(系统日志)和 22 (SSH) |
| | 未存储任何客户信息。 |
| 数据安全 | 未存储设备数据。 |
| | Cisco DNA Center 服务器凭证已加密并存储在数据库中。 |

常见问题解答

CX Cloud Agent

部署

问 - 通过"重新安装"选项,用户能否使用新的 IP 地址部署新的 Cloud Agent?

答 - 可以

问:安装可用的文件格式是什么?

答 - OVA 和 VHD

问 - 在什么环境中能够部署此可安装程序?

答 - OVA

Oracle Virtual Box 5.2.30或更高版本

VHD

Windows虚拟机监控程序2012至2016

问 - CX Cloud Agent 能否在 DHCP 环境中检测 IP 地址?

答 - 能,在 DHCP 环境中,系统会处理 IP 配置期间的 IP 地址分配。但是,不支持未来任何时候对 CX Cloud Agent 进行 IP 地址更改。此外,逐

问 - CX Cloud Agent 是否同时支持 IPv4 和 IPv6 配置?

答 - 否,仅支持 IPv4。

问 - 在 IP 配置期间,是否验证了 IP 地址?

答 - 是,将验证 IP 地址语法和重复 IP 地址分配。

问 - OVA 部署和 IP 配置大约需要多少时间?

答 - OVA 部署取决于复制数据的网络速度。IP 配置大约需要 8-10 分钟,包括创建 Kubernetes 和容器。

问 - 是否对任何硬件类型有任何限制?

答:部署OVA的主机必须满足作为CX门户设置的一部分提供的要求。CX Cloud Agent在硬件上运行VMware/Virtual box的情况下接受测试,该程

问-我们能否随时生成配对代码?

答 - 否, 仅当 Cloud Agent 未注册时, 才能生成配对代码。

问:-DNAC(最多10个群集或20个非群集)与代理之间的带宽要求是什么?

A -当代理和DNAC位于客户环境中的同一个LAN/WAN网络时,带宽不是限制。对于5000台设备的资产收集以及13000个用于代理程序到DNA

版本和补丁

问 - CX Cloud Agent 升级列出了哪些不同类型的版本?

A -此处显示列出的CX Cloud Agent的已发布版本集:

- A.x.0(其中 x 是最新的生产主功能版本,示例:1.3.0)
- A.x.y(其中A.x.0是强制性的,需要启动增量升级,x是最新生产主要功能版本,y是最新版本的升级补丁程序,例如:1.3.1)。
- A.x.y-z(其中A.x.0是强制性的,需要启动增量升级,x是最新生产主要功能版本,y是最新升级补丁处于启用状态,z是即时修复的即刻

其中,A是跨 3-5 年的长期版本.

问:何处可以找到最新发布的CX云代理版本,以及如何升级现有的CX云代理?

A -转至Admin Settings>Data Sources。单击View Update,并执行屏幕上共享的指令。

身份验证和代理配置

问 - CX Cloud Agent 应用的默认用户是什么?

答 - cxcadmin

问:如何为默认用户设置密码?

答 - 在网络配置期间设置密码。

问 - 在 Day-0 之后是否有任何选项可用于重置密码?

答 - 代理未提供用于重置密码的特定选项,但您可以使用 linux 命令重置 cxcadmin 的密码。

问 - 配置 CX Cloud Agent 的密码策略是什么?

答 - 密码策略包括:

- 密码最长期限(长度)设置为 90 天
- 密码最小期限(长度)设置为8
- 密码最大长度为 127 个字符。
- 必须至少提供一个上机箱和一个下机箱。
- 必须至少包含一个特殊字符(例如, ! \$%^&*()_+|~-=\'{}[]:"; '<>?, /)。
- 不允许使用这些字符
 - ◎ 特殊的8位字符(例如,¬£、√Å√、√¥、√ë、¬ø、√ü)

◎ 空格

- 密码不能是最近使用过的10个密码。
- 不得包含正则表达式,即
- 不得包含以下词或其派生词:cisco、sanjose和sanfran

A-要设置Grub密码,请执行以下步骤:

1. 以 cxcroot 身份运行 ssh 并提供令牌 [联系支持团队以获取 cxcroot 令牌]

2. 执行 sudo su,提供相同的令牌

3. 执行命令 grub-mkpasswd-pbkdf2 并设置 GRUB 密码。系统将输出所提供密码的散列,请复制该内容。

4. vi 到文件 /etc/grub.d/00_header。导航到文件末尾,将后跟内容password_pbkdf2根*****的散列输出替换为步骤3中获取的密码的散列

5. 使用 :wq! 命令保存文件。

6. 执行命令 update-grub

问:密码cxcadmin的有效期是多久?

答 - 90天后密码到期。

问-连续登录尝试失败后,系统是否会禁用帐户?

答 - 是,帐户在连续 5 次失败尝试后被禁用。锁定时间为 30 分钟。

问 - 如何生成密码?

A -执行这些步骤,

1. 以 cxcadmin 用户身份运行 ssh 并登录

2. 执行命令remoteaccount cleanup -f

3. 执行remoteaccount create命令

问 - 代理主机是否支持主机名和 IP?

A-是,但是要使用主机名,用户必须在网络配置期间提供DNS IP。

Secure Shell (SSH)

问 - SSH Shell 支持哪些密码?

答 - chacha20-poly1305@openssh.com、aes256-gcm@openssh.com、aes128-gcm@openssh.com、aes256-ctr、aes192-ctr、aes128-ctr

问 - 如何登录控制台?

答 - 按照以下步骤登录:

1. 以 cxcadmin 用户身份登录。

2. 提供cxcadmin密码。

问 - 是否记录 SSH 登录?

A - 是,它们记录为var/logs/audit/audit.log的一部分。

问 - 空闲会话超时时间是多少?

A -如果云代理空闲五(5)分钟,则会发生SSH会话超时。

端口和服务

问-默认情况下,CX Cloud Agent 上的哪些端口保持打开状态?

A -以下端口可用:

.

• Outbound port:部署的CX云代理可以连接到HTTPS端口443上的表中所示的思科后端,也可以通过代理将数据发送至思科。部署的 CX

| 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.emea. <u>csco.cloud</u> | agent.apjc. <u>csco.cloud</u> | |
| ng.acs.agent.us.csco.cloud | ng.acs.agent.emea. <u>csco.cloud</u> | ng.acs.agent.apjc.csco.cloud | |

◇ 注意:除了列出的域外,当EMEA或APJC客户重新安装云代理时,客户防火墙中必须允许使用域agent.us.csco.cloud。

成功重新安装后,不再需要域agent.us.csco.cloud。

💊 注意:请确保端口443上必须允许返回流量。

• Inbound port:对于CX云代理的本地管理,必须可以访问514(系统日志)和22 (ssh)。客户必须允许其防火墙中的端口443接收来自CX

CX Cloud Agent 与 Cisco DNA Center 的连接

问 - Cisco DNA Center与 CX Cloud Agent 的用途和关系是什么?

答:思科DNA中心是管理客户端网络设备的云代理。CX Cloud Agent 从已配置的 Cisco DNA Center 收集设备的资产信息,并上传在 CX Cloud

问 - 用户何时可以提供 CX Cloud Agent 上的 Cisco DNA Center 详细信息?

答:在第0天-CX云代理设置期间,用户可以从CX云门户添加Cisco DNA Center详细信息。此外,在第N天运行期间,用户可以从Admin Setting

问 - 可以添加多少个 Cisco DNA Center?

A - 10个Cisco DNAC群集或20个DNAC非群集。

问: Cisco DNA Center用户可以扮演什么角色?

A -用户角色可以是admin 或observer。

问:如何反映由于连接的DNA Center凭据更改而对CX代理进行的修改?

A-从CX云代理控制台执行以下命令:

cxcli agent modifyController

在DNAC凭证更新期间,如果遇到任何问题,请联系支持人员。

问 - Cisco DNA Center 详细信息如何存储在 CX Cloud Agent 中?

答 - Cisco DNA Center 凭证使用 AES-256 加密并存储在 CX Cloud Agent 数据库中。CX Cloud Agent 数据库使用受保护的用户 ID 和密码进行保证

问 - 从 CX Cloud Agent 访问 Cisco DNA Center API 时将使用哪种加密方式?

答 - Cisco DNA Center 和 CX Cloud Agent 之间使用 HTTPS over TLS 1.2 进行通信。

问 - CX Cloud Agent 在集成的 Cisco DNA Center Cloud Agent 上执行了哪些操作?

答- CX云代理收集思科DNA中心有关网络设备的数据,并使用思科DNA中心命令运行程序界面与终端设备对话并执行CLI命令(show命令)。

A-

• 网络实体

- 模块
- show version
- config
- 设备映像信息
- 标签

问 - 从 Cisco DNA Center 收集并上传到思科后端的其他数据是什么?

答 - 您可以从<u>此处</u>获取所有信息。

问 - 如何将资产数据上传到后端?

答 - CX Cloud Agent 通过 TLS 1.2 协议将数据上传到思科后端服务器。

问 - 资产上传的频率是多少?

答:根据用户定义的计划触发收集,并上传到思科后端。

问 - 用户能否重新计划资产?

A - 是,通过Admin Settings> Data Sources有一个选项可以修改计划信息。
问 - Cisco DNA Center 和 Cloud Agent 之间的连接超时何时发生?

答 - 超时的分类如下:

- 对于初始连接,超时最大为 300 秒。如果在最多 5 分钟内未在 Cisco DNA Center 和 Cloud Agent 之间建立连接,则连接会终止。
- 对于循环、典型或更新:响应超时为1800秒。如果在 30 分钟内未收到响应或无法读取数据,则连接会终止。

CX Cloud Agent 使用的诊断扫描

问 - 在设备上执行的扫描命令有哪些?

A -在扫描过程中,动态确定需要在扫描设备上执行的命令。命令集可以随时间变化,即使对于同一设备(而不是控制诊断扫描)也是如此。

问-扫描结果在哪里存储和分析?

答 - 扫描结果在思科后端存储和分析。

问 - 插入 Cisco DNA Center 源后,是否将 Cisco DNA Center 中的重复项(按主机名或 IP)添加到诊断扫描?

答:不会,重复项将被过滤掉,而且只会提取唯一设备。

问 - 当其中一个命令扫描失败时会发生什么情况?

答-设备扫描将完全停止,并被标记为不成功。

CX Cloud Agent 系统日志

问:哪些运行状况信息发送到CX云?

答 - 应用日志、Pod 状态、Cisco DNA Center 详细信息、审核日志、系统详细信息和硬件详细信息。

问 - 会收集哪些系统详细信息和硬件详细信息?

答 - 示例输出:

```
system_details" : {
"os_details" : {
"containerRuntimeVersion" : "docker://19.3.12",
"内核版本": "5.4.0-47-generic",
"kubeProxyVersion" : "v1.15.12",
"库贝莱版本":"v1.15.12",
"计算机ID": "81edd7df1c1145e7bcc1ab4fe778615f",
"操作系统":"linux",
"osImage" : "Ubuntu 20.04.1 LTS" ,
"systemUUID": "42002151-4131-2ad8-4443-8682911bdadb"
},
"hardware_details" : {
"total_cpu" : "8",
"cpu_utilization" : "12.5%",
"总内存":"16007MB",
"可用内存":"9994MB",
"硬盘大小":"214G",
"free_hdd_size" : "202G"
}
}
}
```

问-运行状况数据如何发送到后端?

答:通过CX云代理,运行状况服务(可服务性)将数据流传输到思科后端。

问 - 后端中 CX Cloud Agent 的运行状况数据日志保留策略是什么?

答 - 后端中的 CX Cloud Agent 的运行状况数据日志保留策略为 120 天。

问 - 可用的上传类型有哪些?

A-三种上传类型,

1. 资产上传

2. 系统日志上传

3. 代理运行状况上传:作为运行状况上传一部分的3个事项

1. 服务运行状况-每5分钟

2. Podlog -每1小时

3. 审核日志-每1小时

故障排除

问题:无法访问已配置的IP。

解决方案:使用配置的IP执行ssh。如果连接超时,可能原因是IP配置错误。在这种情况下,请通过配置有效的 IP 重新安装。这可以通过Admin

问题:如何在注册后验证服务是否启动并正常运行?

解决方案:执行此处所示的命令,验证Pod是否启动并正在运行。

1. 以 cxcadmin身份使用 ssh 连接到配置的 IP 地址。

2. 提供密码。

3. 执行kubectl get pod命令。

Pod可以处于任何状态,例如运行、初始化或容器创建,但是在20分钟后,Pod必须处于运行状态。

如果状态为not running或Pod Initializing,请使用此处显示的命令检查Pod描述

kubectl describe pod <podname>

输出将包含有关 Pod 状态的信息。

问题:如何验证是否在客户代理上禁用了SSL拦截器? 解决方案:执行此处所示的curl命令以验证服务器证书部分。 响应包含concsoweb服务器的证书详细信息。

curl -v --- header 'Authorization : Basic xxxxxx' https://concsoweb-prd.cisco.com/

* 服务器证书:

*主题:C=US;ST=California;L=San Jose;O=Cisco Systems, Inc.;CN=concsoweb-prd.cisco.com

*开始日期:2月16日11:55:11 2021 GMT

* 到期日期:2月16日12:05:00 2022 GMT

* subjectAltName: 主机"concsoweb-prd.cisco.com"与证书的"concsoweb-prd.cisco.com"匹配

* 颁发机构:C=US; O=HydrantID (Avalanche Cloud Corporation); CN=HydrantID SSL CA G3

*SSL证书验证正常。

> GET / HTTP/1.1

问题: kubectl命令失败,并显示错误"The connection to the server X.X.X.X:6443 was refused - do you specify the right host or port"(与服务器解决方案:

- 请验证资源的可用性。[示例:CPU、内存]
- 等待 Kubernetes 服务启动

问题:如何获取命令/设备的收集故障的详细信息

解决方案:

- 执行 kubectl get pods 并获取集合Pod名称。
 - 执行 kubectl logs <collectionPodName> 以获取命令/设备特定的详细信息。

问题: kubectl command not working with error "[authentication.go: 64] Unable to authenticate the request due to an error: [x509: certific

解决方案:以cxcroot用户身份运行此处显示的命令

rm /var/lib/rancher/k3s/server/tls/dynamic-cert.json systemctl restart k3 kubectl —insecure-skip-tls-verify=true delete secret -n kube-system k3s-serving systemctl restart k3

收集失败响应

收集失败原因可能是控制器中添加的控制器或设备出现了任何限制或问题。

此处显示的表包含收集过程中在收集微服务下看到的使用案例的错误代码段。

| 使用案例 | |
|-------------------------------|---|
| 如果在 Cisco DNA Center 未找到请求的设备 | { "command": "show version", "status": "Failed", "commandResponse": "", "errorMessage": " No device found with id 02eb08be-b } |
| | { |

| 使用案例 | | |
|---|--|--|
| 如果无法从 Cisco DNA Center 访问请求的设备 | "command": "show version", "status": "Failed", "commandResponse": "", "errorMessage": "Error occurred while executing comm } | |
| 如果无法从 Cisco DNA Center 访问请求的设备 | { "command": "show version", "status": "Failed", "commandResponse": "", "errorMessage": "Error occured while executing comma } | |
| 如果请求的命令在设备中不可用 | { "command": "show run-config", "status": "Success", "commandResponse": " Error occured while executing "errorMessage": "" } | |
| 如果请求的设备没有SSHv2,并且思科DNA中心尝试通过SSHv2连接设备 | { "command": "show version", "status": "Failed", "commandResponse": "", "errorMessage": "Error occured while executing comma } | |
| 如果在收集微服务中禁用了命令 | { "command": "config paging disable", "status": "Command_Disabled", "commandResponse": "Command collection is disabled "errorMessage": "" } | |
| 如果命令运行器任务失败且 Cisco DNA Center 未返回任务 URL | { "command": "show version", "status": "Failed", "commandResponse": "", "errorMessage": "The command runner task failed for d } | |
| 如果无法在 Cisco DNA Center 创建命令运行器任务 | { "command": "show version", | |

| 使用案例 | | |
|--|---|--|
| | "status": "Failed", "commandResponse": "", "errorMessage": "The command runner task failed for d } | |
| 如果收集微服务在 Cisco DNA Center 发出命令运行器请求时未收到任何响应 | { "command": "show version", "status": "Failed", "commandResponse": "", "errorMessage": "The command runner task failed for d } | |
| 如果 Cisco DNA Center 未在配置的超时(收集微服务中每个命令为 5 分钟)内完成任务 | { "command": "show version", "status": "Failed", "commandResponse": "", "errorMessage": "Operation Timedout. The command r } | |
| 如果命令执行器任务失败且 Cisco DNA Center 提交的任务的文件 ID 为空 | { "command": "show version", "status": "Failed", "commandResponse": "", "errorMessage": "The command runner task failed for d } | |
| 如果命令运行器任务失败且 Cisco DNA Center 未返回文件 ID 标记 | { "command": "show version", "status": "Failed", "commandResponse": "", "errorMessage": "The command runner task failed for d } | |
| 如果设备不符合执行命令运行器的条件 | { "command": "config paging disable", "status": "Failed", "commandResponse": "", "errorMessage": "Requested devices are not in invento } | |
| | { "command": "show version", "status": "Failed", | |

"commandResponse": "", "errorMessage": "{\"message\":\"Role does not have valie

诊断扫描失败响应

扫描失败,原因可能来自任何列出的组件

用户从门户启动扫描时,有时会出现"失败:内部服务器错误"(failed: Internal server error)

问题的原因可能是列出的任何组件

- 控制点
- 网络数据网关
- 连接器
- 诊断扫描
- CX Cloud Agent 微服务 [devicemanager, collection]
- Cisco DNA Center
- APIX
- Mashery
- Ping 访问
- IRONBANK
- IRONBANK GW

• 大数据代理(BDB)

要查看日志,请执行以下操作:

1. 登录到CX云代理控制台

- 2. 使用 ssh 登录到 cxcadmin 并提供密码
- 3. 执行 kubectl get pods
 - 获取集合、连接器和可维护性的Pod名称。
 - 验证收集、连接器和可服务性微服务日志

- 执行 kubectl logs <collectionpodname>
 - 执行 kubectl logs <connector>
 - 执行 kubectl logs <servicability>

此处显示的表格显示在"收集MicroService和可服务性MicroService日志"下由于组件问题/限制而出现的错误片段。

设备可以访问和受支持,但在该设备上执行的命令在收集微服务上被阻止列出 如果尝试扫描的设备不可用。 在组件(例如门户、诊断扫描、CX 组件和 Cisco DNA Center 等)之间存在同步问题时发生该问题

如果尝试进行扫描的设备繁忙,且(在某个场景中)同一设备属于其他作业的一部分,同时 Cisco DNA Center 不会处理该设备的并行请求。

使用案例

如果不支持对设备进行扫描

如果尝试扫描的设备无法访问

如果无法从 Cloud Agent 访问 Cisco DNA Center,或者 Cloud Agent 的收集微服务在 Cisco DNA Center 发出命令运行器请求时未收到任何响应

| ſ | 使用案例 | 控制点代理微服务中的日志片段 |
|---|----------------|---------------------------|
| | 如果扫描请求缺少计划详细信息 | Failed to execute request |

| 使用案例 | 控制点代理微服 务中的日志片段 |
|--------------------|---|
| | {"message":"23502: null value in column \"schedule\" violates not-null constraint"} |
| 如果扫描请求缺少设备详细信息 | Failed to create scan policy. No valid devices in the request |
| 如果与 CPA 之间的连接断开 | Failed to execute request. |
| 如果请求的扫描设备在诊断扫描中不可用 | Failed to submit the request to scan. Reason = {\"message\":\"Device with Hostname=x.x.x.x' was not found |

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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