配置DNA空间和Catalyst 9800或嵌入式无线控制器(EWC)并排除故障,使用直接连接

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简介

思科最新的9000系列接入点(9115、9117、9120、9130)可以运行嵌入式无线控制器(EWC)映像。 EWC基于Cisco 9800 WLC代码,允许其中一个接入点充当最多100个其他AP的控制器。

EWC或Catalyst 9800可通过3种不同方式连接到DNA空间云:

- 1. 直接连接
- 2. 通过DNA空间连接器
- 3. 通过思科互联移动体验(CMX)内部设备或虚拟机

每个版本的EWC都支持与DNA空间集成。本文将介绍Catalyst AP和9800上EWC的直接连接设置和 故障排除,因为步骤相同。

重要信息:仅建议部署最多50个客户端时使用直接连接。对于任何较大的,请使用DNA空间 连接器。

先决条件

使用的组件

•嵌入式无线控制器映像版本17.1.1s或使用16.12.1的Catalyst 9800-L

- 9115 AP
- DNA空间云

本文中概述的步骤假设EWC或9800已部署,并且具有工作的Web界面和SSH。

配置

网络图



配置控制器

DNA空间云节点和控制器正在通过HTTPS协议通信。在此测试设置中,控制器已置于具有完全互联 网访问的NAT后面。

安装根证书

在配置控制器之前,需要下载DigiCert根证书。通过SSH连接到控制器并运行:

WLC# conf t Enter configuration commands, one per line. End with CNTL/Z. WLC(config)# ip name-server <DNS ip> WLC(config)# ip domain-lookup WLC(config)# crypto pki trustpool import url https://www.cisco.com/security/pki/trs/ios.p7b Reading file from http://www.cisco.com/security/pki/trs/ios.p7b Loading http://www.cisco.com/security/pki/trs/ios.p7b !!! % PEM files import succeeded. 默认情况下,EWC使用Cisco DNS服务器配置了DNS,但9800控制器需要执行此步骤。

要验证证书是否已安装,请运行:

EWC(config)#**do show crypto pki trustpool | s DigiCert Global Root CA** cn=DigiCert Global Root CA cn=DigiCert Global Root CA

通过Web界面配置

在控制器可以连接到DNA空间之前,需要设置NTP和DNS服务器,并且至少连接一个AP。

打开EWC的Web界面并导航至"管理"**>"**时**间"**。确保WLC与NTP服务器同步。 默认情况下,EWC已 预配置为使用ciscome.pool.ntp.org NTP服务器。对于9800,您可以使用相同的NTP或首选NTP服 务器:



导航至**Administration > DNS**,并验证是否已添加DNS服务器。默认情况下,EWC已预配置为使用 Cisco Open DNS服务器:



在**Configuration > Wireless > Access Points**下,验证至少已加入一个AP。此AP可以与EWC运行的 AP相同:

¢	cisco Emb	edded Wirele	ss Controller (on Catalyst A	CCESS Poi Welcome a	ints admin 🛛 希 🐧	6 🖹	¢ @ 0 ;	C See		Q	e
Q	Search Menu Items	Configuration	* > Wireless * 3	> Access Point	s							
	Dashboard	Y All Acc	ess Points									
٢	Monitoring >			Current Pr	imary	Current Star	nd	Preferred	Mas			
Ľ	Configuration >			9115		Not Applicabl	e	Not Config	ured			
ŝ	Administration >	Number of AP(s)	: 1									
Ж	Troubleshooting	AP V Name	AP . Model Slot	Admin ~ s ~ Status	IP Address	Kadio MAC	AP ~ Mode	Operation ~ Status	Policy ~ Tag	Site 🖂 Tag	RF × Tag	Tag Source
		9115 🔥	C9115AXI-E 2	۲	192.168.1.1	1 f80f.6f15.3fc0	Flex	Registered	Vasa5	default- site-tag	default- rf-tag	Static
		н н 1	► 10 ▼	items per page						1 - 1 of 1	access po	ints C
		<										>

在DNA空间云上,从主页导航到Setup > Wireless Networks > Connect WLC/Catalyst 9800 Directly。单击View Token:



Switch (交换机)选项卡, 切换到Cisco Catalyst 9800。复制令牌和URL:



在WLC Web界面中,导航至**Configuration > Services > Cloud Services > DNA Spaces**。粘贴 URL和身份验证令牌。如果使用HTTP代理,请指定其IP地址和端口。



验证是否已在"监控">"无线">"NMSP"下成**功建**立连接。服务状态应显示绿色箭头:

← → ♂ ŵ	🖲 🔒 https://192.168	1.10/webui/index.html#/nmsp	··· ⊠ ⊗ t	2		≡
Cisco E	Embedded Wireless	Controller on Catalyst Access Welcome admin	Points 🏶 🗣 🖺 🏟 🌡	. 0 3	Search APs and Clients Q	•
Q Search Menu Items	Monitoring -> V Cloud Services	Vireless - > NMSP DNA Spaces Information Statis	tics Service Subs	cription	Controller Settings	
Monitoring	> DNA Spaces Status	Services	DNA Spaces Servic Statistics	ces		
Configuration	> Server	https://vasilijeperovic.dnaspaces.eu	Tx DataFrames	7		
O Administration	> IP Address	63.33.127.190	Rx DataFrames	2		
X Troubleshooting	DNA Spaces Service	Enabled	Tx Heartbeat Request	4		
	Connectivity	https UP	Heartbeat Timeout	0		
	Service Status	ø	Rx Subscr Request	2		
	Last Request	HTTP/2.0 200 OK	Tx DataBytes	512		
	Status		Rx DataBytes	74		
	Heartbeat Status	ОК	Tx Heartbeat Fail	0		
			Rx Data Fail	0		
			Tx Data Fail	0		

跳过下一章,转到"将控制器**导入位置层次结构**"。

通过CLI进行配置

验证NTP是否已配置并同步:

EWC#**show ntp associations**

address ref clock st when poll reach delay offset disp *~45.87.76.3 193.79.237.142638 1024 377 10.919 -4.315 1.072 +~194.78.244.172 172.16.200.253 2646 1024 377 15.947 -2.967 1.084 +~91.121.216.238 193.190.230.66 2856 1024 377 8.863 -3.910 1.036 * sys.peer, # selected, + candidate, - outlyer, x falseticker, ~ configured

可以使用ntp server <ntp_ip_addr>命令添加新的NTP服务器。

验证DNS服务器是否已配置:

EWC#**show ip name-servers** 208.67.222.222 208.67.220.220

可以使用ip name-server <dns_ip>命令添加新的DNS服务器。

要确认AP已加入,请执行以下操作:

EWO	C# show a <u>r</u>	o status		
AP	Name	Status	Mode	Country
911	 15	Enabled	Local	BE

如前所述,访问DNA空间云,导航至Setup > Wireless Networks > Connect WLC/Catalyst 9800 Directly,然后单击View Token:



Switch (交换机)选项卡, 切换到Cisco Catalyst 9800。复制令牌和URL:



运行以下命令:

```
CL-9800-01(config)#no nmsp cloud-services enable
CL-9800-01(config)#nmsp cloud-services server url [URL]
CL-9800-01(config)#nmsp cloud-services server token [TOKEN]
CL-9800-01(config)#nmsp cloud-services enable
CL-9800-01(config)#exit
```

要验证与DNA空间云的连接是否已成功建立,请运行:

将EWC导入位置层次结构

步骤1.其余配置将在DNA空间中完成。在Setup > Wireless Networks > Connect WLC/Catalyst 9800 Directly下,单击Import Controllers。

ŵ	https://dnaspaces.eu/setup	p/wirelessnetwork	··· 🛛 🖗 🕁		
co DNA Space	ƏS (AGT)			Active APs 1 of 2000	0
connect WLC/ onnect WLC/Catalyst 98 our wireless network.	/Catalyst 9800 Directly	eless network connected to Cisco DNA Spaces. N	io need to upgrade Wireless LAN	Controllers or reconfigure	^
You can install the o	Dt Certificate			Need Help? Access the below links to view deta help.	iled
2 Configure Configure the token	Token in WLC in WLC to establish the connection.			View Configuration Steps	ß
14	Total controller(s)	View Token		System Requirements Frequently Asked Questions	C'
B Import Co Once the controller	ntrollers into Location H s are connected, you can import them into loca	Hierarchy ation hierarchy			
1	controller(s) imported to location hierarchy	Import Controllers			
	Connect WLC, Donnect WLC, Donnect WLC/Catalyst 98 ur wireless network. Install Roc You can install the View root certificat Configure Configure Configure the toker 1.4 Import Co Once the controller 1	Co DNA Spaces CO Connect WLC/Catalyst 9800 Directly annect WLC/Catalyst 9800 Directly is an easy way to get your wire ur wireless network. Install Root Certificate You can install the certificate from WLC CLI Yew root certificate C Configure Token in WLC Configure the token in WLC to establish the connection. 1 4 Total controller(s) Import Controllers into Location H Conce the controllers are connected, you can import them into loc Configure to Configure to Controllers are connected, you can import them into loc Conce the controllers are connected, you can import them into loc Controller(s) Controller(s) imported to Controller(s) Cont	Co DNA Spaces Co Connect WLC/Catalyst 9800 Directly annect WLC/Catalyst 9800 Directly annect WLC/Catalyst 9800 Directly is an easy way to get your wireless network connected to Cisco DNA Spaces. N ur wireless network. Install Root Certificate You can install the certificate from WLC CLI View root certificate C Configure Token in WLC Configure Token in WLC Configure the token in WLC to establish the connection. 1 4 Total controller(s) Directly View Token Conce the controllers are connected, you can import them into location hierarchy Controllers are connected, you can import them into location hierarchy Controllers are connected, you can import them into location hierarchy Controllers are connected to	Co DNA Spaces Connect WLC/Catalyst 9800 Directly Connect WLC/Catalyst 9800 Directly Connect WLC/Catalyst 9800 Directly Connect WLC/Catalyst 9800 Directly is an easy way to get your wireless network connected to Cisco DNA Spaces. No need to upgrade Wireless LAN Ur wireless network. Install Root Certificate Vou can install the certificate from WLC CLI View root certificate C Configure Token in WLC Configure Token in WLC to establish the connection. 1 Total controller(s) View Token Import Controllers into Location Hierarchy Conce the controllers are connected, you can import them into location hierarchy Controller(s) C	Install Root Certificate Vocan install the certificate Vocan install the certificate from WLC CLI Vow root certificate ? Configure Token in WLC Configure Token in WLC Configure token in WLC CLI View rook Install Root Certificate View rook Install controllers into Location Hierarchy View Token Instol controllers into Location Hierarchy Total controllers into Location Hierarchy Import Controllers

步骤2.选中您的帐户名称旁边的单选按钮,然后点击Next。如果已添加了一些位置,它们将显示在 以下列表中:

€ → ℃ 6	ŵ	0	https://dnaspaces.eu/set	up/wirelessnetwork		… ⊠ ⊗ ✿		
≡ Cisco	DNA Spaces			Import Cont	rollers			×
Conne	ect your wire	eles: Catal	s network lyst 9800 Direct		Where do you Choose a locatio	want to import to import to import to import	this Controller t this controller.	
Conr your	nect WLC/Catalyst 9800 wireless network.	Directi	y is an easy way to get your 1	<u>=Q</u> Search Loca	tions			
1 	Install Root You can install the cert View root certificate (2 Configure T Configure the token in 14 Import Cont Once the controllers at	Cer incase f oker WLC to trolle re conve	tificate nom WLC CLI establish the connection. Total controller(s) ers into Location seted, you can import them into atrollers added	TestLocatio	n			
Co	ering is an easy way to o	IX To	ethering wireless network connected		-			
Co	onnect via Spa	aces	Connector	Next				

步骤3.查找您的控制器IP地址,选中其旁边的框,然后按**Next**:

к

Import Controllers

Select the Controller(s) that you want to import NOT: The Controller(s) will be abled as a new NLC order "Maile/Parent"					
	0				
192.168.1.108	1 Apr.				
1902.1688.1.129	1 Apr.				
1 192.168.1.1e3	1 April				
100.168.1.10	1 Apr.				

步骤4.由于尚未添加其他位置,只需单击"完成":

import Controlliers	×
Locations Interest as an decrement increase, select the brance effect we with a set	
No Networks are available	
Desir (mar)	

步骤5.系统将弹出提示,提示WLC已成功导入位置层次结构:

\bigcirc

Controller successfully imported to location hierarchy!

Total controllers added : 1 Total number of APs : 1 Total number of Locations : 0

Would you like to organize your location hierarchy

Yes, take me to location hierarchy

No, Continue with Setup

现在,WLC已成功连接到云,您可以开始使用所有其他DNA空间功能。

注意:NMSP流量始终使用无线管理接口与DNA空间或CMX通信。这在9800控制器配置中无 法更改。接口编号不相关,将使用9800控制器上分配为无线管理接口的任何接口。

在思科DNA空间上组织位置层次结构

如果需要新的位置层次结构,或者如果在"将9800控制器导入到Cisco DNA空间"部分的步骤4中未添 加任何位置**,则可**以手动配置它们。

位置层次结构是DNA空间最重要的功能之一,因为它用于分析信息,并基于它配置强制门户规则。 位置层次结构的粒度越细,对强制网络门户的规则和可从DNA空间检索的信息的控制就越精细。

DNA空间上的位置层次结构功能与Cisco Prime基础设施或Cisco CMX的传统层次结构的工作方式相同,但命名方式截然不同。当控制器被导入到位置层次结构中时,它代表了传统层次**结构**中的等效

园区;在控制器下,**可**以创建与建筑物等效的**组**;然后,在组下,可以配置与楼层等效的**网络**,最后 ,在网络下,可以创建与传统位置层次结构中使用的相同级别保持相同的区域。总之,这是等价的 :

表1.传统层级与DNA空间级别的等价性。

DNA空间层次	传统层次结构
控制器(无线网络)	园区
组	建筑
网络	楼层
区域	区域

步骤1.配置组。组根据地理位置、品牌或任何其他类型的分组组织多个位置或区域,具体取决于业务。导航至**位置层次结**构,将鼠标悬停在现有无线控制器上,然后单击**创建组**。

NEX	(-EAST-1	0.0	
٠	5508-1-CMX	1 1 0	0 0
÷	5508-2-Connector-Campus	2 3 0	0 0 0
٠	M 5520-DirectConnect	2 1 0	1 0 0
•	9800L-Mexico-Campus	1 1 C M	ORE ACTIONS
	• Succonfigured	0 0 0	Rename 9800L-Mexi.
÷	efmLocation	2 2 3	Edit
÷	🐼 Lisboa	3 0 0	Create Group Add Network
			Add/Edit Metadata
			Delete Location

要更改位置级别的名称,请将鼠标悬停在网络上,然后单击"**重命名"。**

步骤2.输入组名称并选择**未配置**位置,因为该位置包括随控制器导入的所有AP,这些AP将根据需要 映射到网络和区域。单击 Add。

Add Group

MXC-10-Building	9		
Select Location]		

Add Cancel

步骤3.创建网络。网络或位置在Cisco DNA空间中定义为物理建筑中作为位置整合的所有接入点。 将鼠标悬停在组上,然后单击"添加**网络"。**

MEX	EAST-1	
+	5508-1-CMX	
(+)	1 5508-2-Connector-Campus	2 2 0 0 0
(+)	1 5520-DirectConnect	2 1 0 1 0 0
Θ	1 9800L-Mexico-Campus	
	+ MXC-10-Building	
+	efmLocation	(2) (2) (7) Rename MXC-10-Bui
+	🕅 Lisboa	3 1 C Create Group Edit Group
		Add Network
		Add/Edit Metadata Delete Location

注意:这是位置层次结构中最重要的节点,因为业务见解和位置分析计算是从此处生成的。

步骤4.输入网络名称和接入点前缀,单击**Fetch。**DNA空间使用该前缀获取与该控制器关联的所有 AP,并允许将AP添加到楼层。只能输入一个前缀。

Add Network

10.10.30.5
NETWORK NAME Second Floor
ACCESS POINT PREFIX 28 Fetch
Matching access points will be shown below
1 Following access points are discovered based on provided prefix and will be added to this network.
2802AP-9800L
Done

步骤5.在网络中需要更多前缀时。单击网络名称,在"位置信息"**选项卡**中单击"**使用的**接入点前**缀"旁 边的"编辑"按钮。**

	Location Info Access Points	Rules	Maps	Team	Camera	
Second Floor 🖌						
Noce type Network	28					

输入前缀名称,单击**+添加前缀**,然后**保存。**根据需要对所有前缀重复上述步骤,这会将AP映射到 网络并允许稍后将AP关联到区域。

Location name Second Floor	
Choose Access Points that are part of this location Provide one or more prefixes that can be used to automatically match the Access Points belonging to this location	
Prefix 28 + Add Prefix *28* 2802AP-9800L Second Floor	Added Prefixes 28 1.0%

Cancel Save

步骤6.创建区域。区域是大楼/位置部分内的接入点集合。它可以根据实体建筑或组织中的部门进行

定义。将鼠标悬停在Network(网络)上,然后选择Add **Zone(添加区域)。**

X-EAST-1	
5508-1-CMX	
1 5508-2-Connector-Campus	 (a) (b) (b) (c) (b) (c) (c) (c) (c) <li(c)< li=""></li(c)<>
1 5520-DirectConnect	(1) (0) (1) (0)
1 9800L-Mexico-Campus	(1) (0) (0) (0)
MXC-10-Building	
Second Floor	
 Superior Unconfigured 	1 0 C Rename Second Flo.
efmLocation	2 2 Add Zone
🕅 Lisboa	3 1 C Delete Location

步骤7.配置Zone Name并为区域选择AP,然后单击Add:

Add Zone	Q	\times
Wireless-Zone		
Select Access Points Network Access Points		
✓ 2802AP-9800L (10:b3:d6:94:00:e0)		



故障排除和常见问题

常见问题

通常,**Monitoring > Wireless > NMSP**(或运行**show nmsp cloud-services summary**命令)下的Web界 面页面会显示有关连接故障的足够信息。以下屏幕截图中可找到几个常见错误:

1.未配置DNS时,出现错误消息"*传输错误(6):无法解析主机名*"显示:



未安装证书或NTP未配置都会导致错误消息:"传输错误(60):SSL对等证书或SSH远程密钥不正常":

↔ ↔ ↔ ↔	🖲 🔒 https://192.168.1	I.10/webui/#/nmsp	··· 🛛 🛞 '		
Cisco Em	bedded Wireless Co	ontroller on Catalyst Access Poi Welcome a	nts dmin 🛛 🖀 🜾 🖺	🕯 🏟 🔞 🧭 🎜 Search APs and Clients 🔾	•
Q Search Menu Items	Monitoring * > Win	eless* > NMSP			
Dashboard	Cloud Services	DNA Spaces Information Statistics	Service Subscription	on Controller Settings	
Monitoring >	DNA Spaces Se	rvices Status	DNA Spaces Service Statistics	ces	
🔧 Configuration	Server	https://vasilijeperovic.dnaspaces.eu	Tx DataFrames	0	
Administration	IP Address	208.67.222.222	Rx DataFrames	0	
X Troubleshooting	DNA Spaces Service	Enabled	Tx Heartbeat Request	2	
	Connectivity	DOWN	Heartbeat Timeout	0	
	Service Status	0	Rx Subscr Request	0	
	Status	error (60): SSL	Tx DataBytes	0	
		certificate or SSH remote	Rx DataBytes	0	
		key was not OK	Tx Heartbeat Fail	1	
	Heartbeat Status		Rx Data Fail	0	
			Tx Data Fail	0	

放射性追踪

EWC与所有其他9800控制器一样,支持始终在线的放射性痕迹。为了收集它们并了解连接未建立的 原因,需要知道EWC要访问的DNA空间IP地址。这可以在**Monitor > Wireless > NMSP**下或通过 CLI找到:

EWC# show nmsp statu: NMSP Status 	5				
CMX IP Address	ActiveTx Echo Resp	Rx Echo Req	Tx Data	Rx Data	Transport
 63.33.127.190	Active0	0	38	2	HTTPS

此测试设置中的EWC正在连接到63.33.127.190。请复制此IP地址并导航至"故障排除">"**放射性跟踪** "。点击Add,粘贴IP地址,然后点击Generate:

← → ♂ ✿	🗊 🖗 https://192.168.1.10/webui/#/troubleshooting	•••	${\times}$	জি গ	2
Cisco Emb	edded Wireless Controller on Catalyst Access Points Welcome admin	*	Y o	B	¢
Q Search Menu Items	Troubleshooting > Radioactive Trace				
Dashboard	Conditional Debug Global State: Stopped				
Monitoring >	+ Add × Delete ✓ Start Stop				
Configuration	MAC/IP Address Trace file				
O Administration	63.33.127.190 I ► I <td>5</td> <td></td> <td></td> <td></td>	5			
X Troubleshooting					

选择**生成过**去10分钟的日志,然后点击应用。启用内部日志可生成可能难以分析的大量数据:

Enter time interval		×
Enable Internal Logs		
Generate logs for last	10 minutes	
	O 30 minutes	
	O 1 hour	
	 since last boot 	
	O 0-4294967295	seconds w
D Cancel		🗄 Apply to Device

注意:配置错误的DNS、NTP和缺少证书不会生成任何放射性跟踪

2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-main] [11100]: (note): CMX [63.33.127.190]:[32]: closing 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): Called 'is_ready' 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-main] [11100]: (info): CMX [63.33.127.190]:[32]: Processing connection event NMSP_APP_LBS_DOWN(201) 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-db] [11100]: (info): Started or incremented transaction (TID: -1, ref count: 1, started: 0, abort: 0) 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-enc] [11100]: (debug): Decoding control message structure 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-enc] [11100]: (debug): Control structure was successfully decoded from message 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-db] [11100]: (debug): Retrieving CMX entry: 32 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-db] [11100]: (ERR): CMX entry 32 not found 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-main] [11100]: (debug): CMX Pool processing NMSP message (id: event NMSP_APP_LBS_DOWN(201), length: 48, client: 0, CMX id: 32) 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-db] [11100]: (info): Ending transaction (TID: -1, ref count: 1, started: 0, abort: 0) 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-db] [11100]: (info): Ended transaction (TID: -1, ref count: 0, started: 0, abort: 0) 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-client] [11100]: (debug): NMSP IPC sent message to NMSPd NMSP message (id: event NMSP_APP_LBS_DOWN(201), length: 48, client: 0, CMX id: 32) successfully 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-main] [11100]: (info): CMX [63.33.127.190]:[32]: successfully broadcasted IPC event NMSP_APP_LBS_DOWN(201) 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-main] [11100]: (note): CMX [63.33.127.190]:[32]: down 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-main] [11100]: (debug): NMSP timer 0xab774af4: close 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): Decrease reference count for https_con object: Now it's 1 与云成功连接的放射性跟踪示例: 2020/02/24 18:53:20.634 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (note): Server did not reply to V2 method. Falling back to V1. 2020/02/24 18:53:20.634 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): Cloud authentication 2 step failed, trying legacy mode 2020/02/24 18:53:20.634 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (note): Set connection status from HTTP_CON_AUTH_PROGRESS_2STEP to HTTP_CON_AUTH_IDLE 2020/02/24 18:53:20.634 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): tenant ID: vasilijeperovic 2020/02/24 18:53:20.634 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): hostname is: data.dnaspaces.eu 2020/02/24 18:53:20.635 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (note): Starting authentication V1 using Heartbeat URL https://data.dnaspaces.eu/api/config/v1/nmspconfig and Data URL https://data.dnaspaces.eu/networkdata 2020/02/24 18:53:20.635 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (note): Set connection status from HTTP_CON_AUTH_IDLE to HTTP_CON_AUTH_PROGRESS_1STEP 2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): tenant ID: vasilijeperovic 2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): hostname is: data.dnaspaces.eu

2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): Authenticator V1 get heartbeat host: https://data.dnaspaces.eu/api/config/v1/nmspconfig 2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): Authenticator V1 get

access token: eyJ0eX[information omitted]rpmRq0g 2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-db] [11100]: (debug): DNSs used for cloud services: 208.67.222.222,208.67.220.220

2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): Using nameservers:

208.67.222.222,208.67.220.220 2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): IP resolution preference is set to IPv4 2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): Not using proxy for cloud services 2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-dump-https] [11100]: (debug): Found bundle for host data.dnaspaces.eu: 0xab764f98 [can multiplex] 2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-dump-https] [11100]: (debug): Re-using existing connection! (#0) with host data.dnaspaces.eu 2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-dump-https] [11100]: (debug): Connected to data.dnaspaces.eu (63.33.127.190) port 443 (#0) 2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-dump-https] [11100]: (debug): Using Stream ID: 3 (easy handle 0xab761440) 2020/02/24 18:53:21.636 {nmspd_R0-0}{1}: [nmsp-dump-https] [11100]: (debug): POST /api/config/v1/nmspconfig/192.168.1.10?recordType=nmsp_hrbt_init&jwttoken=eeyJ0eX[information omitted]70%3A69%3A5a%3A74%3A8e%3A58 HTTP/2 Host: data.dnaspaces.eu Accept: */* Accept-Encoding: gzip

2020/02/24 18:53:21.665 {nmspd_R0-0}{1}: [nmsp-dump-https] [11100]: (debug): We are completely uploaded and fine

HTTP/2 200

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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