使用ERS API删除ISE网络设备

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简介

本文档介绍使用PostMan作为REST客户端通过ERS API删除ISE上的网络访问设备(NAD)的过程。

先决条件

要求

Cisco 建议您了解以下主题:

- ISE(身份服务引擎)
- ERS(外部RESTful服务)
- REST客户包括Postman、RESTED、Insomnia等。

使用的组件

本文档中的信息基于以下软件版本:

- 思科ISE(身份服务引擎) 3.1补丁6
- Postman REST客户端v10.16



注意:其他ISE版本和REST客户端的步骤类似或相同。除非另有说明,您可在所有2.x和3.x ISE软件版本上使用这些步骤。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原 始(默认)配置。如果您的网络处于活动状态,请确保您了解所有命令的潜在影响。

配置

启用ERS(端口9060)

ERS API是只使用HTTPS的REST API,在端口443和端口9060上运行。端口9060默认关闭,因此 需要先打开。如果尝试访问此端口的客户端不首先启用ERS,则会出现服务器超时。因此,第一个 要求是从Cisco ISE管理员UI启用ERS。

导航到管理>设置> API设置并启用ERS(读/写)切换按钮。

- Cisco ISE	Administration - System	0 a	© 53 ©
Deployment Licensing	Certificates Logging Maintenance Upgrade Health Checks Backup & Restore Admin Access Settings		
Client Provisioning PPS Mole Security Settings Alarm Settings	API Settings Overview API Service Settings API Gateway Settings		
Profiling Protocols	ERS (Read/Write) Cpen API (Read/Write)		
Endpoint Scripts	V CSRF Check (only for ERS Settings)		
Proxy SMTP Server SM5 Gateway System Time	Enable CSRF Check for Enhanced Security (Net compatible with pre ISE 2.3 Clients) Disable CSRF For ERS Request (compatible with ERS clients older than ISE 2.3)		
API Settings Network Success Diagnostics		Reset	Save
DHCP & DHS Services Max Sessions Light Date Distribution Interactive Help			
Enable TAC Support Cases			



注: ERS API支持TLS 1.1和TLS 1.2。ERS API不支持TLS 1.0,无论在思科ISE GUI的"安 全设置"(Security Settings)窗口(管理(Administration) >系统(System) >设置(Settings) >安全 设置(Security Settings))中启用TLS 1.0。在Security Settings(安全设置)窗口中启用TLS 1.0仅与EAP协议相关,不会影响ERS API。



注意:ISE不支持批量删除操作。必须一次执行一个需要删除。

创建ERS管理员

创建思科ISE管理员,分配密码,然后添加用户作为ERS管理员。您可以将配置的其余部分留空。

> Admin User
* Nerve ERS-USER
Crail Circlude system alarms in emails
Economia 🗋 🕠
Head Only
Instea accord new could a
 Password
*Proved
Generate Password
~ User Information
First Name
LastNorm
~ Account Options
Description
Equilibrium de la construction de la constru
V Admin Groups
I FRS Admin V +

设置Postman

下载或使用在线版本的Postman。

1. 通过点击"工作区"选项卡下的"创建工作区"创建用户和工作区。

• • • $\leftarrow \rightarrow$ Home	Workspaces ^	API Network ~	Explore		Q Search Postman		\$\$ \$ ©	Upgrade 🗸
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Postman works best with	No workspace	es found		Pls			Explore all →	
teams Collaborate in real-time and establish a single source of tr for all API workflows. Create Team				ckout API (v70) to initiate and perform paymen hods. velopers Updated on 19 Jul	ats with cards, mobile wallets an	্ণু Fork 200÷ nd local	Watch 212	
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Learning Center >								
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Webinar: Testing and Develop GraphQL APIs	bing							
Learn how to test & develop ro GraphQL APIs with Postman.	obust							
Register now 7	~							

2. 选择空白工作区并为工作区指定名称。您可以添加说明并将其公开。已选择本示例个人。

● ● ● 🤟 🔶 Home Workspaces 🗸 API Network 🖌 Explore	Q Search Postman	ŵ û 🌔 Upgrade	Ŷ
Create your workspace	Blank workspace Customize this space to organize and share your API resources with your team.		
Test	75 70ar workspace		
Summary Who can access your workspace? Personal Only who can access access		25	
Only you can access Private Only invited team members can access Team All team members can access	Build your own workspace		
Partner Only invited partners and team members can access Public Everyone can view Greate Back Step 2 of 2	Showcase your API's capabilities Use Postman collections to document your APIs with ease. You can create your from 70+ collection templates tailored to your needs.	own or choose	
	Build together, work faster	ems together.	

创建工作空间后,您现在可以配置我们的API调用。

获取NAD名称和ID

在开始删除NAD之前,您必须首先知道NAD的名称或ID。可以从ISE上的NAD列表轻松获取NAD名称,但是只能通过GET API调用获取ID。同一API调用不仅返回NAD ID,还返回名称和说明(如果在NAD配置期间添加了)。

要配置GET调用,请首先访问ISE ERS SDK(软件开发工具包)。此工具编译ISE可以执行的API调用的完整列表:

- 1. 导航到https://{ise-ip}/ers/sdk
- 2. 使用您的ISE管理员凭证登录。
- 3. 现在展开API文档
- 4. 向下滚动直至找到Network Device,然后单击。
- 5. 在此选项下,您现在可以找到可以为ISE上的网络设备执行的所有可用操作。选择全部获取

xternal RESTful Services (ERS)	Online SDK
Quick Reference	Network Device
API Documentation 🔫	
BYOD Portal Gertificate Template Gertificate Template GertificateProfile GertificateProfile GertificateProfile GertificateS Gent Cartificates Gent Gent Gent Cartificates Gent Cartificates G	Overview Resource definition Revision History Update-By-Name Delete-By-Name Get-By-Name Get-Ay-Id Update Get-All Delete Get-All Delete Get-Version Bulk Request Monitor Bulk Status
- 🔏 Identity Group - 🎜 Identity Sequence	Overview
Internal User My Device Portal Native Supplicant Profile Network Device Network Device Network Device Network Device Portal Port Node Details Priv Node Details Priv Node Details	Network Device API allows the client to add, delete, update, and search Network Devices. In this documentation, for each available API you will find the request syntax including the required headers and a response example of a successful flow. Please note that each API description shows weather the API is supported in bulk operation. The Bulk section is showing only 'create' bulk operation however, all other operation which are bulk supported can be used in same way.
Portal Theme Profile Profile Pollice Poll Pogrid Deployment Info Pugrid Node Pugrid Settings	Please note that these examples are not meant to be used as is because they have references to DB data. You should treat it as a basic template and edit it before sending to server. Back to tot
Developer Recourses	Resource definition

6. 现在,您可以看到在任何Rest客户端上执行API调用所需的配置以及预期的响应示例。

External RESTful Services (ERS) (Online SDK	
Quick Reference	Network Device	
API Documentation Joseph Straight Strai	Get-All	Back to top
A CertificateProfile A CertificateProfile A CertificateProfile Downloadable ACL Bergess Matrix Cell A End Point Certificates A End Point Certificates A End Point Radius Server A Elter Policy A Seast Smarth Notification Configur A Geest Smarth Notification A Geest A Geest Smarth Notification A Geest A Geest Smarth Notification A Geest A Gees	Request: Method: URI: HTTP 'Content-Type' Header: HTTP 'Accept' Header: HTTP 'CRS-Media-Type' Header (Not Mandatory): HTTP 'X-CSRF-TOKEN' Header (Required Only if Enabled from GUI): Request Content: 8/A	GET https://10.201.230.99/ers/config/networkdevice application/xml I application/json application/xml I application/json network.networkdevice.1.1 fetch
SE Service Information General Service Information General Service General Service General Service General Service General Service Formal Service For	Response: (SearchResult) HTTP Status: 200 (OK) Content: XML <trail encoding="UV7-8" version="1.0">> <trail <="" encoding="UV7-8" trail="" trail<br="" version="1.0"><trail td="" versi<=""><td><pre>i1="ers.ise.cisco.con" xnlns:ers-v2="ers-v2" total="2"> application/xnl"/> apple" type="application/xnl"/> w="name1"> type="application/xnl"/> type="application/xnl"/></pre></td></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail></trail>	<pre>i1="ers.ise.cisco.con" xnlns:ers-v2="ers-v2" total="2"> application/xnl"/> apple" type="application/xnl"/> w="name1"> type="application/xnl"/> type="application/xnl"/></pre>

7. 返回Postman,配置ISE的基本身份验证。在授权选项卡下,选择基本身份验证作为身份验证类型,并添加之前在ISE中创建的ISE ERS用户凭证。



注意:除非在Postman上配置了变量,否则密码显示为明文

GET ~ E	inter URL or plate t	ext					Send	4 ~
Params Authorizati	on • Headers (1	1) Body	Pre-request Script	Tests	Setting	IS	c	ookies
Гуре	Basic Auth 🗸	Username				ERS-USER		
'he authorization head utomatically generated end the request. Learn <u>uthorization</u> ↗	er will be d when you n more about	Password						

8. 转到报头选项卡,并配置API调用所需的报头,如SDK中所示。本例使用JSON,但也可使用 xml。对于此示例,报头配置必须如下所示:

GET	✓ Enter URL or paste text			Send ~
Params Headers	Authorization • Headers (11) Body	Pre-request Script Tests Settings		Cookies
	Кеу	Value	Description	*** Bulk Edit Presets \sim
\checkmark	Content-Type	application/json		
\checkmark	Accept	application/json		
\checkmark	ERS-Media-Type	network.networkdevice.1.1		
\checkmark	X-CSRF-TOKEN	fetch		
	Кеу	Value	Description	

9. 执行GET呼叫。选择GET作为方法。在字段中粘贴https://{ISE-ip}/ers/config/networkdevice,然 后单击发送。如果一切配置正确,您应该看到200 OK消息和结果。

TESTNAD1和TESTNAD2可使用2个不同的删除调用进行删除。



通过ID删除NAD

使用从GET呼叫收集的ID删除TESTNAD1。

1. 在网络设备选项卡下的SDK中,选择删除。如前所述,这是执行呼叫所需的报头以及预期响应

iick Reference	Network Device		
1 Documentation		Back	to to
EYOD Portal	Delete		
Certificate Template			
CertificateProfile	Request:		
Clear Threats and vulnerabilities			
Egress Matrix Cell	Mashadi	DELETE	
End Point	Method:	DELETE	
End Point Certificates	URI:	https://10.201.230.99/ers/config/networkdevice/{id}	
EndPoints Identity Group	HTTP 'Content-Type' Header:	application/xml I application/json	
Filter Policy	UTTP 'Accept' liegier	andication/vml landication/ieon	
Guest Location		approache with approache part	
Guest Smtp Notification Configur	HTTP 'ERS-Media-Type' Header (Not Mandatory):	network.networkdevice.1.1	
Guest Type	HTTP 'X-CSRF-TOKEN' Header (Required Only if Enabled from GUI)	The Token value from the GET X-CSRF-TOKEN fetch request	
Guest User			
Hotspot Portal	Request Content:		
IP To SGT Mapping	N/A		
ISE Service Information			
🚺 Identity Group			
Identity Sequence	Response: (N/A)		
My Device Portal			
Native Supplicant Profile	HTTP Status: 204 (No Content)		
Network Device	Title Status, EST (NO Solitely)		
Network Device Group	Contracts		
PSN Node Details with Radius Se	N/a		
Portal			
Portal Theme		Back	to t
Profiler Profile	Country		
Pxgrid Node	Create		
Provid Settings			

2. 假设报头类似于GET 呼叫,并且您在同一ISE上执行DELETE呼叫,那么请重复上一个呼叫并更 改所需的变量。最后,报头配置必须如下所示:

DELET	E V Enter URL or paste text			Send 🗸
Params Headers	Authorization • Headers (10) Body	Pre-request Script Tests Settings		Cookies
	Key	Value	Description	••• Bulk Edit Presets ~
	Content-Type	application/json		
\checkmark	Accept	application/json		
	ERS-Media-Type	network.networkdevice.1.1		
	Key	Value	Description	

3. 现在删除TESTNAD1。选择DELETE作为方法。在字段中粘贴https://{ISE-

ip}/ers/config/networkdevice/{id},用GET呼叫中看到的需要(NAD)的实际ID替换{id},然后单击发送 。如果一切配置正确,您应该看到204 No Content消息并且结果为空。

DELET	Έ Υ	https://10.201	1.230.99/ers/c	onfig/ne	tworko	device,	7c45e6f	f0-30af-11ee-a4c	c-9a4	46445bd4f		Send	~
Params	Authori	zation • Hea	ders (11)	Body	Pre-re	equest	Script	Tests Settir	ngs	-		Cod	okies
Query P	arams												
	Key				Value	•				Description	***	Bulk Edi	it
Body C	ookies (2)	Headers (16)	Test Results				¢2	Status: 204 No C	ontent	Time: 222 ms Size: 1.01 KB	🖺 Save as	s Exampl	e
Pretty	Raw	Preview	Visualize	JSON	\sim	- @						Ū	Q
1													

4. 通过再次执行GET呼叫或检查ISE NAD列表,确认是否删除了NAD。请注意,TESTNAD1不再存 在。

GET	~	https://10.201.	230.99/ers/cor	fig/networkde	vice				Send	4 ~)
Params	Authoriz	zation • Head	ers (12) Bo	ody Pre-req	uest Script Te	sts Settings			c	cookies
Body Co	okies (2)	Headers (18)	Test Results		¢	Status: 200 OK	Time: 522 ms	Size: 3.09 KB	🖹 Save as Exam	nple 🚥
Pretty	Raw	Preview	Visualize	JSON 🗸					ſĊ	D C
34 35 36 37 38 39 40 41 42 43 44 45		<pre> }, { "id": "name" "descr "link" "r "h "t }, </pre>	"8901ab50-c9 : "LABSwitch iption": "", : { el": "self", ref": " <u>https</u> ype": "appli	999-11ec-997 ", s://10.201.2 Loation <u>/json</u>	d-66c78d20c311 30.99/ers/conf "	", ig/networkdevi	.ce/8901ab50-	c999-11ec-99	7d-66c78d20c31:	<u>f</u> ",
46 47 48 49 50 51 52 53 54		"10": "name" "descr "link" "r "h "t }	"85607440-30 : "TESTNAD2" iption": "", : { el": "self", ref": " <u>https</u> ype": "appli	a1-11ee-a4c , s://10.201.2 Lcation <u>/json</u>	c-9a4464450041 30.99/ers/conf	ig/networkdevi	.ce/85bd74a0-	<u>30af-11ee-a4</u>	lcc-9a446445bd4:	<u>f</u> ",
55 56 57 58 59 60 61 62 63 64		{ "id": "name" "descr "link" "r "h "t }	"63efbc20-44 : "Wireless- iption": "Wi : { el": "self", ref": " <u>https</u> ype": "appli	5a-11ed-b56 9800", Ireless Cont s://10.201.2 Ication <u>/json</u>	0-6e7768fe732e roller C9800", <u>30.99/ers/conf</u>	", ig/networkdevi	.ce/63efbc20-	4 <u>f5a-11ed-b5</u>	60-6e7768fe732	<u>e</u> ",

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	. A:	SA-FP 10.201.23 🗰 C	isco 🕕 All Locatio	ns All Device Types		
		uo_Client 10.201.23 🗰 C	isco 🕕 All Locatio	ns All Device Types	DUO sen	ding request back as cl
		ABSwitch 2001:420: 🗯 Ci	isco 🕕 NMH	Access-Layer		
		ESTNAD2 20.20.20 🗰 C	Isco 🕕 All Locatio	ns All Device Types		
	. w	ireless-98 10.201.23 🗰 C	isco 🕕 All Locatio	ns All Device Types	Wireless	Controller C9800

按名称删除NAD

使用从GET呼叫或ISE GUI的NAD列表中收集的名称删除TESTNAD2。

1. 在网络设备选项卡下的SDK中,选择按名称删除。如前所述,这是执行呼叫所需的报头以及预 期响应。

Documentation Certificates and vulnerabilities Downloadebile ACL Develoadebile ACL Experimentation End Point End Point End Point End Point Eternal Radius Server Filter Policy Cuest Location Guest Sint Guest Sint Guest Sint	Delete-By-Name Request: Method: URI:	Back to t					
Clear Threats and vulnerabilities Clear Threats and vulnerabilities Constrained to the text of text of the text of text o	Delete-By-Name Request: Method: URI:	DELETE					
Great Threats and vulnerabilities Downloadable ACL, Greases Matrix Cell End Point End Point End Point Certificates DendToints identity Group External Radius Server Filter Policy Guest Santo Guest Santo Guest Santo Guest Santo	Request: Method: URI:	DELETE					
Joennication ACL Jeress Marrix Coll Lend Point Lend Point Certificates Lend Point Certificates Letrenal Radius Server Filter Policy Cuest Location Guest Said Guest Said Guest Said Guest Said	Request: Method: URI:	DELETE					
End Point Certificates End Point Certificates EndPoints (dentity Group External Radius Server Filter Policy Guest Location Guest Smb Notification Configur Guest Ssid Guest Syste	Method: URI:	DELETE					
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all External Radius Server filter Policy Guest Location Guest Smtp Notification Configur Guest Ssid Guest Syste	URI:						
J Filter Policy Guest Location Guest Strip Notification Configur Guest Ssid Guest Type		https://10.201.230.99/ers/config/networkdevice/name/(name)					
Guest Location Guest Smtp Notification Configur Guest Ssid Guest Type							
Guest Ssid	HTTP 'Content-Type' Header:	application/xmi1 application/json					
Guest Type	HTTP 'Accept' Header: application/xml application/json						
	UTTD 'EDC.Madia-Tune' Header (Not Mandaton/):	patwork patworkdavica 1.1					
Guest User	HTTP ENS-Modia-Type Header (Not Mandatory).	The swork in dework device. 1.1					
Hotspot Portal	HTTP 'X-CSRF-TOKEN' Header (Required Only if Enabled from GUI)	The Token value from the GET X-CSRF-TOKEN fetch request					
IP To SGT Mapping							
ISE Service Information	Request Content:						
Identity Group	N/A						
Identity Sequence							
🛺 Internal User	L						
My Device Portal	Response: (N/A)						
Native Supplicant Profile							
Network Device Group							
Node Details	HTTP Status: 204 (No Content)						
PSN Node Details with Radius Ser							
Portal	Content:						
Portal Theme	v/s						
Profiler Profile							

2. 假设报头类似于GET 呼叫,并且您在同一ISE上执行DELETE呼叫,则复制上一个呼叫并更改所 需的变量。最后,报头配置必须如下所示:

DELETE ~ Enter URL or paste text							
Params	Authorization • Headers (10) Body	Pre-request Script Tests Settings		Cookies			
Headers	s ⊙ 7 hidden						
	Key	Value	Description	*** Bulk Edit Presets \sim			
\checkmark	Content-Type	application/json					
\checkmark	Accept	application/json					
\checkmark	ERS-Media-Type	network.networkdevice.1.1					
	Key	Value	Description				
Respons	se			~			

3. 删除TESTNAD2。选择DELETE作为方法。在字段中粘贴https://{ISE-

ip}/ers/config/networkdevice/name/{name},用GET呼叫或ISE GUI中显示的NAD的实际名称替换 {name},然后单击Send。如果一切配置正确,您应该看到204 No Content消息并且结果为空。

DELETE	E ~ https://	10.201.230.99/ers/	config/net	workdevice	e/name/TE	ESTNAD2	-	_			Send ~
Params	Authorization •	Headers (11)	Body	Pre-reques	t Script	Tests	Settings				Cookies
Query Pa	arams										
	Key			Value				Descrip	tion		*** Bulk Edit
	Key			Value				Descript	tion		
Body Co	ookies (2) Headers	(16) Test Result	S		¢2	Status: 204	No Content	Time: 210 ms	Size: 1.01 KB	🖺 Sav	e as Example 🛛 👓
Pretty	Raw Previe	w Visualize	JSON	~ =							ΓQ
1											

4. 通过再次执行GET呼叫或检查ISE NAD列表,确认是否删除了NAD。 请注意,TESTNAD2不再 存在。

GET	https://10.201.230.99/ers/config/networkdevice	end 🗸
Params	uthorization • Headers (12) Body Pre-request Script Tests Settings	Cookies
Body Co	s (2) Headers (18) Test Results 🚯 Status: 200 OK Time: 503 ms Size: 2.79 KB 🖺 Save as E	xample •••
Pretty	Raw Preview Visualize JSON V	ΓQ
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 55	<pre>"Id": "673bcbb0-c988-11ec-997d-66c78d20c31f", "name": "Duo_Client_NAD", "description": "Duo sending request back as client for 2FA", "link": { "rel": "self", "href:: <u>https://10.201.230.99/ers/config/networkdevice/673bcbb0-c988-11ec-997d-66c78d20c</u> "type": "application/json" } }, { "id": "8991ab50-c999-11ec-997d-66c78d20c31f", "name": "LABSwitch", "description": "", "link": { "rel": "self", "href:: <u>https://10.201.230.99/ers/config/networkdevice/673bcbb0-c988-11ec-997d-66c78d20c</u> "type": "application/json" } }, { "id": "6991ab50-c999-11ec-997d-66c78d20c31f", "name": "LABSwitch", "description": "", "link": { "tref": <u>https://10.201.230.99/ers/config/networkdevice/8901ab50-c999-11ec-997d-66c78d20c</u> "type": application/json" } }, { "id": "63efbc20-4f5a-11ed-b560-6e7768fe732e", "name": "Wireless -9800", "description": "Wireless Controller C9800", "link": { "ref": <u>https://10.201.230.99/ers/config/networkdevice/63efbc20-4f5a-11ed-b560-6e7768fe732e", "hame": "self", "tref": <u>https://10.201.230.99/ers/config/networkdevice/63efbc20-4f5a-11ed-b560-6e7768fe732e", "name": "wireless -9800", "description": "wireless Controller C9800", "link": { "ref": <u>https://10.201.230.99/ers/config/networkdevice/63efbc20-4f5a-11ed-b560-6e7768fe7</u> "type": "application/json" } } </u></u></pre>	31f", 31f",
57		

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Network Devices	Network Device Grou	ups Network Device Profiles	s External RADIUS	S Servers RADIL	US Server Sequences	NAC Ma Click here to do visibility s	etup Do not	show this	again. ×
Network Devices	Netv	work Devices							
Default Device	Network Devices								
Device Security Settings							Selected 0	Total 4 🛛 🔁	0
	🖉 Edit	+ Add 🖞 Duplicate 💩 Imp	ort i Export $\sim -b$	🔒 Generate PAC 🛛 👖	Delete 🗸			$_{\rm AII}\sim$	Ÿ
		Name \sim IP/Mask Prof	ile Name	Location	Туре	Description			
		ASA-FP 10.201.23 🗚 🕻	Cisco 🕕	All Locations	All Device Types				
		Duo_Glient 10.201.23 🎎 🤇	Cisco 🕡	All Locations	All Device Types	DUO sending request back as c	l		
	D	LABSwitch 2001:420: 🗰 0	lisco (j)	NMH	Access-Layer				
		Wreless-98 10.201.23 🖽 0	Jisco 🕕	All Locations	All Device Types	Wireless Controller C9800			

验证

如果能够访问API服务GUI页,例如https://{iseip}:{port}/api/swagger-ui/index.html或 https://{iseip}:9060/ers/sdk,则表示API服务按照预期工作。

故障排除

- 所有REST操作都经过审核,并且日志记录在系统日志中。
- 要排除与开放式API相关的问题,请在调试日志配置窗口中将apiservice组件的日志级别设置 为调试。
- 要排除与ERS API相关的问题,请在调试日志配置窗口中将ers组件的日志级别设置为调试。
 要查看此窗口,请导航到Cisco ISE GUI,单击菜单图标并选择Operations > Troubleshoot > Debug Wizard > Debug Log Configuration。
- 您可以从下载日志窗口下载日志。要查看此窗口,请导航到Cisco ISE GUI,单击菜单图标并 选择Operations > Troubleshoot > Download Logs。
- 您可以选择从"支持捆绑包"选项卡中下载支持捆绑包(通过点击选项卡下的下载按钮),也可以 通过点击api服务调试日志的日志文件(Log File)值,从"调试日志"(Debug Logs)选项卡中下载 api服务调试日志。

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