使用双域Expressway上的CMS配置代理WebRTC

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简介

本文档介绍通过具有不同内部和外部域的Expressway为思科会议服务器(CMS)配置代理Web实时通 信(webRTC)的示例。

先决条件

要求

Cisco 建议您了解以下主题:

- •CMS单一组合部署版本2.1.4及更高版本
- Expressway C和Expressway E版本X8.9.2及更高版本
- •在CMS上配置Callbridge和Webbridge
- •在Expressway对上启用移动和远程访问(MRA)
- 使用中继NAT(TURN)选项键穿越Expressway-E
- •Webbridge URL的外部可解析域名服务器(DNS)记录,用于外部域
- CMS IP地址从外部域到内部域的内部可解析DNS记录

- •在CMS上为内部和外部域配置的可扩展消息传送和在线状态协议(XMPP)多域
- •从公共互联网到 Expressway E 的公共 IP 地址的防火墙上开启 TCP 端口 443
- •在防火墙上打开的TCP和UDP端口3478从公共互联网到Expressway E的公有IP地址
- •在防火墙上打开的UDP端口范围24000-29999,以Expressway-E的公有IP地址为源

使用的组件

本文档中的信息基于以下软件和硬件版本:

- •CMS单一组合部署版本2.2.1
- Expressway-C和Expressway-E,带双网络接口卡(NIC)和静态网络地址转换(NAT)软件版本 X8.9.2
- POSTMAN

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。如果您使用的是真实网络,请确保您已经了解所有命令的潜在影响。

配置

网络图



webRTC internal domain

技术信息

内部域	cms octavio.local
外部域	octavio.com
CMS IP地址	172.16.85.180
Expressway-C IP地址	172.16.85.167
Expressway-E LAN1 IP地址(内部)	172.16.85.168
Expressway-E LAN2 IP地址(外部)	192.168.245.61
静态NAT IP地址	10.88.246.156

DNS 配置

内部DNS配置

B DNS	Name	Туре	Data	Timestamp
ACTIVEDIRECTORY	_xmpp-client	Service Location (SRV)	[10][10][5222] xmpp.cms.octavio.local.	static
⊿ 🚞 Forward Lookup Zones	_xmpp-server	(V)	[10][10][5209] xmpp.cms.octavio.local.	static
▷ _msdcs.octavio.local	_cisco-udsEX	ternal domain	[10][10][8443] ocucmp.octavio.local.	static
⊿ 🔁 octavio.com	_cuplogin Test	ives to internal w	[10][10][8443] ocupsp.octavio.local.	static
A DNS	Name	Туре	Data	Timestamp
⊿ ACTIVEDIRECTORY ⊿ Prorward Lookup Zones	_tcp	Host (A)	External webbridge URL resolves to internal IP address	static
Image: Second	cmsweb	Host (A)	172.16.85.180	static
⊿ 🛐 octavio.com	(same as parent folder)	Start of Authority (SOA)	[10], activedirectory.octavio.local., hostmaster.octavio.local.	static
tcp		Name Carrier (NC)	anti uniferenten e entre in la sal	

外部DNS配置

外部DNS必须具有Webbridge URL,该URL解析为Expressway-E的静态NAT IP地址,如图所示。

🚊 DNS	Name	Туре	Data
 ☐ ☐ ☐ Global Logs ☐ ☐ Forward Lookup Zones 	tcp tls (same as parent folder) (same as parent folder)	Start of Authority (SOA) Name Server (NS)	[7], mxdc.mx.lab., hostmaster.mx mxdc.mx.lab.
	cmsweb	Host (A)	10.88.246.156
	Vcse	Host (A)	10.88.246.156
Coctavio.com			

CMS、Callbridge、Webbridge和XMPP配置

步骤1.必须激活callbridge许可证。该图显示激活的Callbridge许可证。

```
proxyWebRTC> license
Feature: callbridge status: Activated expiry: 2017-Jul-09
```

有关更多许可信息:

http://www.cisco.com/c/dam/en/us/td/docs/conferencing/ciscoMeetingServer/Deployment_Guide/V ersion-2-1/Cisco-Meeting-Server-2-1-Single-Combined-Server-Deployment.pdf#page=10

步骤2.如图所示,通过MMP启用callbridge、webbridge和XMPP。

avtWebDTC> callbridge

PIONIMCONICS CONTRAINING	
Listening interfaces	: a
Preferred interface	: none
Key file	: callbridge.key
Certificate file	: callbridge.cer
Address	: none
CA Bundle file	: root.cer
proxyWebRTC>	
proxyWebRTC> webbridge	e
Enabled	: true
Interface whitelist	: a:443
Key file	: webbridge.key
Certificate file	: webbridge.cer
CA Bundle file	: root.cer
Trust bundle	: callbridge.cer
HTTP redirect	: Enabled
Clickonce URL	: none
MSI download URL	: none
DMG download URL	: none
iOS download URL	: none
proxyWebRTC>	
proxyWebRTC> xmpp	
Enabled	: true
Clustered	: false
Domain	: cms.octavio.local
Listening interfaces	: a
Key file	: xmpp.key
Certificate file	: xmpp.cer
CA Bundle file	: root.cer
Max sessions per user	: unlimited
STATUS	: XMPP server runnin
proxyWebRTC> xmpp mult	ti domain list

Domain	: octavio.com
Key file	: xmppmu.key
Certificate file	: xmppmu.cer
Bundle file	: root.cer

请点击此链接,详细了解如何启用这些功能:

ersion-2-1/Cisco-Meeting-Server-2-1-Single-Combined-Server-Deployment.pdf

有关如何创建证书的详细信息,请访问以下链接:

http://www.cisco.com/c/dam/en/us/td/docs/conferencing/ciscoMeetingServer/Deploymen	t_Guide/V
ersion-2-2/Certificate-Guidelines-Single-Combined-Server-Deployment-2-2.pdf	

步骤3.导航至Configuration > General上的CMS网页,并配置Webbridge的内部和外部URL,如图所示。

Web bridge settings	
Guest account client URI	https://cmsweb.cms.octavio.local
Guest account JID domain	cms.octavio.local
Custom background image URI	
Custom login logo URI	
Guest access via ID and passcode	secure: require passcode to be supplied with ID $$
Guest access via hyperlinks	allowed V
User sign in	allowed V
Joining scheduled Lync conferences by ID	not allowed V
IVR	
IVR numeric ID	
Joining scheduled Lync conferences by ID	not allow This FQDN has to be set as SAN on
External access	Expressway-E certificate
Web Bridge URI	https://cmsweb.octavio.com
IVR telephone number	

注意:CMS必须至少配置一个空间。

CMS上已配置空间的示例,如图所示。

Name	URI user part	Secondary URI user part	Additional access methods	Call ID
Proxy webRTC	proxywebrtc@cms.octavio.local			100101

注意: 必须为内部和外部域配置来电

如图所示,为传入呼叫处理配置的域示例。

Incoming call handling

Call matching

Domain name	Priority	Targets spaces
cms.octavio.local	10	yes
octavio.com	10	yes

TURN配置

步骤1. TURN必须通过API通过Postman进行配置。此命令用于所有配置。

https://

步骤2.使用POST方法并导航至Body,以**查看**TURN服务器参数或编辑它们。配置到TURN服务器的 参数如图所示。

POST V https://admin.cms.octavio.local:445/api/v1/turnServ	ers Params
uthorization • Headers (2) Body • Pre-request Script	Tests
🖲 form-data 🛛 e x-www-form-urlencoded 🔍 raw 🔘 binary	Exp-E LAN1 IP address
✓ serverAddress	172.16.85.168
clientAddress	10.88.246.156 Static NAT IP address
v username	turnuser
password	cisco This username
type	standard has to be
tcpPortNumberOverride	3478 configured on
key.	value

步骤3.运行方法GET并复制服务器ID,检查TURN服务器配置的状态。必须复制的ID如图所示。

Get \checkmark	https://admin.cms	.octavio.local:445/api/v1/tu	rnServers	
Authorization 🔵	Headers (2)	Body Pre-request Script	t Tests	
Туре		Basic Auth	~	
Username		admin		The authorization header will be generated an added as a custom header
Password				Save helper data to request
Body Cookies	Headers (10)	Tests		
Pretty Raw	Preview XN	n. v 🛱		
1 xml vers<br 2 ~ <turnserve 3 ~ <turns 4 < < 5 < <t 6 7 <td>sion="1.0"?> ers total="1"> Server id="2aal6ccc serverAddress>172.1 ClientAddress>10.88 DServer> vers></td><td>-87d1-424d-9d3d-3d007f2 6.85.1688.246.156<td>3243a"> > ></td><td></td></td></t </turns </turnserve 	sion="1.0"?> ers total="1"> Server id="2aal6ccc serverAddress>172.1 ClientAddress>10.88 DServer> vers>	-87d1-424d-9d3d-3d007f2 6.85.1688.246.156 <td>3243a"> > ></td> <td></td>	3243a"> > >	

步骤4.复制API命令末尾的ID并使用GET方法查看TURN服务器信息,如图所示。

注意:该信息不会显示服务器的密码。

get $$	https://admin.cms.	octavio.local:445/api/v1/t	turnServer <mark>/2aa16ccc</mark>	-87d1-424d-9d3d-3d007f23243a	Params
Authorization ●	Headers (2) B	ody Pre-request Scr	ipt Tests		
Туре		Basic Auth	~		c
Username		admin		The authorization header will be generated added as a custom header	and
Password				Save helper data to request	
		Show Password			
Body Cookies	Headers (10)	Tests			Status: 200
Pretty Raw	Preview XMI	· ~ IP			
1 xml ver<br 2 → <turnserv 3 <serv 4 <clic 5 <numl 6 <user 7 <type 8 <tcpl< td=""><td>rsion="1.0"?> ver id="2aal6ccc-87c verAddress>172.16.85 entAddress>10.88.246 Registrations>0rname>turnuser</td></tcpl<></type </user >>standard PortNumberOverride> PortNumberOverride></numl </clic </serv </turnserv 	rsion="1.0"?> ver id="2aal6ccc-87c verAddress>172.16.85 entAddress>10.88.246 Registrations>0rname>turnuser	1-424d-9d3d-3d007f23 168 156 Registrations> name> 478 <td>243a"≻ erride≻</td> <td></td> <td></td>	243a"≻ erride≻		

步骤5.单击**send**获取服务器状态。如图所示,配置成功的示例。



Expressway-C和E配置

步骤1. Expressway-C必须具有内部域(octavio.local),Expressway-E必须具有外部域 (octavio.com),如图所示。

CISCO Cisco Expressway-C

Status	System	Configuration	Applications	Users	Maintenance
DNS					
DNS se	ttings				
System	host name	VCSC			i)
Domain	name	octavio.loc	al		j)
DNS red	quests port range	Use the e	phemeral port range	v (1)	
Default	DNS servers		Internal D)NS serve	er
Address	s 1	172.16.85	162		Ð

步骤2.必须在Expressway C和E上启用MRA,如图所示。

Unified Communications		You are here Configuration > Unified Communications > Configuration
Configuration		
Unified Communications mode	Mobile and remote access v	

步骤3.如图所示,在Expressway-C和E之间创建统一通信穿越区域。

CISCO Cisco Expressway-C

Status System Configuration	Applications Users Mai	ntenance
Edit zone		
Configuration		
Name		* UT Zone
Type		Unified Communications traversal
Hop count		* 15
Connection credentials	configured on Exp-E	
Username		* Tuser
Password		* (i)
1		
_ SIP		
Port		* [7001 j)
Accept proxied registrations		Allow 🗸 🧃
ICE support		Off 🗸 (i)
Multistream mode		On 🗸 (i)
SIP poison mode		Off 🗸 (i)
Preloaded SIP routes support		Off 🗸 👔
SIP parameter preservation		Off v
Authentication		
Authentication policy		Do not check credentials 🗸 🧾

Expressway-C上的配置

步骤1.在Expressway-C上配置内部域和外部域,如图所示。

CISCO Cisco Expressway-C

Status	System	Configuration	Applicat
Doma	ains		
	Index •	Domain name	_
	1	octavio.local	
	2	octavio.com	
		1. 1	

步骤2.启用思科会议配置。导航至**配置>统一通信>思科 Meeting Server**。如图所示,在Guest帐 户客户端URI字段上配置外部Webbridge URL。

CISCO Cisco Expressway-C							
Status System Configuration	Applications	Users	Maintenance				
Cisco Meeting Server							
Meeting Server configuration							
Meeting Server Web Proxy			Enable 🗸 🕕				
Guest account client URI			* cmsweb.octavio.com				
Save							
Guest account client URI resolved to the follo	owing targets						
Name				Address			
cmsweb.octavio.com				172.16.85.180			

注意:内部DNS应将外部网桥URL(cmsweb.octavio.com)解析为内部CMS网桥IP地址。在本例中,IP为172.16.85.180。

Expressway-C上的安全外壳(SSH)隧道必须在几秒钟后变为活动状态,如图所示。

cisc	O Cisco	Expressway-C					
Status	System	Configuration	Applications	Users	Maintenance		
Unified	Commun	ications SSH tu	innels status				You are here: Status > Unified Communications
Target -						Domain	Status
vcse.octa	vio.com					octavio.local	Active
vcse.octa	vio.com					cmsweb.octavio.com	Active
vcse.octa	vio.com					octavio.com	Active

注意:服务器必须具有服务器证书和CA证书。

Expressway-E上的配置

步骤1. Expressway-E必须具有TURN许可证,如图所示。



Status	System	Configuration	Applications	Users	Maintenance	
Option	keys					
-	(ey 🔻				Description	Status
					Expressway Series	Active
					H323-SIP Interworking Gateway	Active
					1800 TURN Relays	Active
					Advanced Networking	Active

步骤2.必须使用外部域配置Expressway-E,如图所示。

CISC	Cisco	Expressway-E			
Status	System	Configuration	Applications	Users	Maintenance
DNS					
DNS se	ttings				
System	host name	vcse			i
Domain	name	octavio.co	m		i)
Default	DNS servers		E	xternal D	NS server
Address	s 1	10.88.246	.210		(I)
Addres	\$2				(i)

步骤3.为TURN服务器和统一通信穿越区域创建用户,如图所示。

CISCO Cisco Expressway-E

Status	System	Configuration	Applications	Users	Maintenance	
Local	authentica	tion database				
Records	s: 3					
-	Name 💌					Action
	admin					View/Edit
	turnuser					View/Edit
	Tuser					View/Edit

步骤4.创建统一通信穿越区域,如图所示。

8	ч				
	01	00	0	01	

CISCO Cisco Expressway-E

Edit zone	
Configuration	
Name	* UT Zone
Туре	Unified Communications traversal
Hop count	* 15
Connection credentials	
Username	* Tuser
Password	Add/Edit local authentication database
Password	Add/Edit local authentication database
Password SIP Port	Add/Edit local authentication database
Password SIP Port TLS verify subject name	Add/Edit local authentication database
Password SIP Port TLS verify subject name Accept proxied registrations	Add/Edit local authentication database
Password SIP Port TLS verify subject name Accept proxied registrations ICE support	Add/Edit local authentication database * [7001] (j) * [vcsc.octavio.local] (j) Allow v (j) Off v (j)
Password SIP Port TLS verify subject name Accept proxied registrations ICE support Multistream mode	Add/Edit local authentication database * 7001 (j) * vcsc.octavio.local (j) Allow v (j) Off v (j) On v (j)
Password SIP Port TLS verify subject name Accept proxied registrations ICE support Multistream mode SIP poison mode	Add/Edit local authentication database * 7001 (j) * vcsc.octavio.local (j) Allow v (j) Off v (j) Off v (j) Off v (j) Off v (j)
Password SIP Port TLS verify subject name Accept proxied registrations ICE support Multistream mode SIP poison mode Preloaded SIP routes support	Add/Edit local authentication database * 7001 * vcsc.octavio.local Allow v (i) Off v (i) Off v (i) Off v (i) Off v (i) Off v (i) Off v (i)

步骤5.配置TURN服务器。如图所**示,导航至Configuration > Traversal > TURN。**

注意:TURN请求必须到达端口3478,因为它是Web客户端请求TURN连接的端口。

Status	System	Configuration	Applications	Users	Maintenance		
TURN							
Server							
TURN s	ervices				On	v	
TURN re	equests port	The	one configure	d before	* 3478	(j)	
	10010 00				* turnus	er	i
Authent	tication realm						
Authent Media p	tication realm ort range start				* 24000	D D	

出现"Turn(开启)"后,状态显示"Active(活动)",如图所示。

TURN server status	
Status	Active
Listening address 1	172.16.85.168 3478
Listening address 2	192.168.245.61 3478
Number of active TURN clients	0
Number of active TURN relays (connected via TCP)	0
Number of active TURN relays (connected via UDP)	0

步骤6.导航至**System > Administration。**WebRTC客户端请求访问端口443,因此Expressway-E的 管理端口必须更改为其他端口,在本例中,它更改为445,如图所示。

Web server configuration	
Redirect HTTP requests to HTTPS	0n 🗸 (j)
HTTP Strict Transport Security (HSTS)	On 🗸 🧃
Web administrator port	445 🗸 🚯
Client certificate-based security	Not required v

步骤7.为Expressway-E创建证书:必须将Webbridge URL添加为服务器证书上的SAN,如图所示。

X509v3 Subject Alternative Name: DNS:vcse.octavio.com, DNS:vcse.octavio.local, DNS:cmsweb.octavio.com, DNS:cmsweb.octavio.local, DNS:octavio.local, DNS:cms.octavio.local, DNS:cms.octa

验证

使用本部分可确认配置能否正常运行。

步骤1.选择支持的Web浏览器并输入外部Webbridge URL,您必须看到下一个屏幕,如图所示。

注意:您可以在链接中找到支持的浏览器和版本列表 :<u>https://kb.acano.com/content/2/4/en/what-versions-of-browsers-do-we-support-for-</u> webrtc.html?highlight=html%5C-5%20compliant%20browsers#content



步骤2.选择Join call并输入先前配置的空间ID,如图所示。

Enter Call ID				
M				
Meeting				
100101				
Passcode (If required)				
Continue >				
Back				

步骤3.单击**continue**并输入您的名称,此时您必须看到要加入的空间的名称,在本例中,空间名称 为Proxy webRTC**。**单击**Join call**,如图所示。

Proxy webRTC
M
Meeting
Octavio
Join call 🗸
Or sign in and join

步骤4.加入另一台设备,您必须看到会议中连接的两台设备,如图所示。



故障排除

本部分提供的信息可用于对配置进行故障排除。

未显示加入呼叫按钮

打开Webbridge页时,**加入呼叫**按钮不显示,当您输入CMS网页时,您会看到第二个图像中显示的 错误,如图所示。

Sign in	
M	
Meeting	
Usemame	
Password	
Sign in	>

18:15:28.769 Web bridge connection to "cmsweb.cms.octavio.local" failed (connect failure)

Fault condition

当网桥无法与呼叫网桥正确通信时,会发生问题。

解决方案

2017-05-20

- 检查CMS管理员网页上的Webbridge URL配置是否正确。为此,请导**航至"配置"**>"常规"。
- Webbridge和Callbridge必须相互信任,请检查信任捆绑是否已添加到Webbridge配置中,如图 所示:

proxyWebRTC> webbridge		
Enabled	:	true
Interface whitelist	:	a:443
Key file	:	webbridge.key
Certificate file	:	webbridge.cer
CA Bundle file	:	root.cer
Trust bundle	:	none
HITP redirect	:	Enabled
Clickonce URL	:	none
MSI download URL	:	none
DMG download URL	:	none
iOS download URL	:	none
proxyWebRTC> proxyWebRTC>		

注意:信任捆绑包是呼叫网桥证书。

WebRTC页面显示"错误请求"

M Bad Requ	iest ×
$\leftrightarrow \ \ni \ G$	A Not secure bttps://cmsweb.octavio.com

解决方案

• 检查Expressway-C上配置了正确的访客帐户客户端URI。为此,请导航**至Configuration >** Unified Communication > Cisco Meeting Server。

如果内部URL在访客帐户客户端URL中配置,则Expressway-C将解析它,因为DNS服务器上已创建 记录,但这可能导致Web浏览器中出现"错误请求"错误消息。在本例中,配置内部URL以显示错误 ,如图所示。

Cisco Expressway-C	
itatus System Configuration Applications Users Maintenance	
Cisco Meeting Server	
🕕 Success: The address cmsweb.cms.octavio.local resolved successfully. The local cache has the following changes: Inserted: 172.16.85.180	
Meeting Server configuration	
Meeting Server Web Proxy	
Guest account client URI * cmsweb.cms.octavio.local	
Save	
Guest account client URI resolved to the following targets	
Name	Address
cmsweb.cms.octavio.local	172.16.85.180

WebRTC客户端显示不安全连接

M Welcome ×		
← → C ▲ Not secure bttps://cmsweb.octavio.com		
A CONTRACT OF A		
	:••	
	Meeting	9
	Join call	>
	Sign in	>

解决方案

- 证书是自签名的,导致服务器不信任源。将Expressway-E上的证书更改为受支持的第三方证书 颁发机构。
- 检查外部Webbridge URL是否作为SAN添加到Expressway-E服务器证书上,如图所示。



WebRTC客户端连接但从未连接,然后超时并断开连接

8	Share screen	Leave	d
Another application	n may be using your ca	mera or micropho	ne 🛞
	Connectin	g	
F	Proxy webF	RTC	
	Cancel	_	

TURN服务器用户名或密码在expressway-E或CMS中通过API配置错误。日志包含图像中显示的错误。

2017-05-20	19:43:14.133	Info	web bridge link 3: new guest login request 21 received
2017-05-20	19:43:14.133	Info	guest login request 21: passcode resolution scheduled
2017-05-20	19:43:14.133	Info	guest login request 21: resolution in progress
2017-05-20	19:43:14.135	Info	guest login request 21: credential storage scheduled (queue length: 1)
2017-05-20	19:43:14.135	Info	created guest account with user ID "guest3804072848@cms.octavio.local"
2017-05-20	19:43:14.135	Info	guest login request 21: credential storage executed
2017-05-20	19:43:14.135	Info	guest login request 21: credential storage in progress
2017-05-20	19:43:14.137	Info	guest login request 21: successfully stored credentials
2017-05-20	19:43:14.163	Info	web bridge link 3: guest login request 21: response written
2017-05-20	19:43:14.231	Info	successful login request from guest3804072848@cms.octavio.local
2017-05-20	19:43:14.930	Info	instantiating user "guest3804072848@cms.octavio.local"
2017-05-20	19:43:14.934	Info	new session created for user "guest3804072848@cms.octavio.local"
2017-05-20	19:43:18.805	Info	call 6: allocated for guest3804072848@cms.octavio.local "Web client" conference participation
2017-05-20	19:43:18.805	Info	call 6: setting up combined RTP session for DTLS (combined media and control)
2017-05-20	19:43:21.805	Warning	call 6: ICE failure; relay candidate creation timeout

也可以通过数据包捕获确认错误。在运行WebRTC客户端的PC上运行Wireshark。完成数据包捕获 后,按STUN过滤数据包。您必须看到图中显示的错误。

1458 2017-05-20 19:52:48.704809 172.16.84.124 10.88.246.156 STUN 182 0x124a (7754) Default Allocate Request UDP user: turnuser with nonce 1462 2017-05-20 19:52:48.714894 10.88.246.156 172.16.84.124 STUN 262 0x8abc (2748) Default Allocate Error Response user: turnuser with nonce reale: turnuser UDP error-code: 431 ("Unknown error code") Integrity Check Failure

PC发送分配请求, Expressway NAT地址回应"完整性检查失败"消息。

解决方案

要修复错误,请查看用户名和密码。必须在TURN服务器参数上正确配置它们,如图所示。

POST 🗸	https://admin.cms.octavio.local:445/api/v1/turr	nServers/2aa16ccc-87d1-424d-9d3d-3d007f23243a/
Authorization •	Headers (2) Body Pre-request Scrip	pt Tests
🔍 form-data 🤎	x-www-form-urlencoded 🔍 raw 🔍 binary	1
 serverAddre 	255	172.16.85.168
clientAddres	55	10.88.246.156
username		turnuser
password		cisco
V type		standard
tcpPortNum	nberOverride	3478
CISCO Cisco I	Expressway-E	
Status System	Configuration Applications Users Main	ntenance
Local authenticati	on database	
Configuration		
Name		* turnuser (j)
Password		* ••••••