在RTMT上分析SIP呼叫流的過程

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簡介

本檔案介紹在思科即時監控工具(RTMT)上為SIPc(作業階段啟始通訊協定)通話檢查通話流程和訊 號傳送的程式,其中RTMT是分析SIP通話的通話流程的快捷工具。

必要條件

需求

思科建議您瞭解以下主題:

- •思科整合通訊管理員(CUCM)
- RTMT

採用元件

本文檔中的資訊基於RTMT版本11.5。

本文中的資訊是根據特定實驗室環境內的裝置和應用所建立。文中使用到的所有裝置和應用皆從已 清除(預設)的組態來啟動。如果您的網路正在作用,請確保您已瞭解任何行動可能造成的影響。

程式

步驟1。在RTMT上,導航至System > Voice/Video,如下圖所示。



步驟2.在SIP活動下,導航到Session trace log view > Real Time data。

Eile System Voice/Video Analy	rsis	Manager IM and Presence Ed	lit <u>W</u> indov	v App	olication Help									
Real Time Monitoring To	00	For Cisco Unified Communications	Solutions											
System	•	🔄 Real Time Data												X
Voice@/ideo	ľГ			1	Search Criteria								1	
					Calling Numb	or/HDI	•	_	Start	Timo	2018.000.20 14:01:32	-		
Voice and Video Summary					Calling Humb	enon			Start	mile	Lotoring Lo FilorioL			
CallProcess					Called Numbe	r/URI	*		Durati	ion	30 mins			
- Activity									Time	7000	(CMT+E-20)India Standard Time A	sia/Caloutta		
Gateway Activity									Time	Zone	(GMT+5:50)inula Stanuaru Time-A	sia/caicutta •		
Trunk Activity								Ru	In					
SDL Queue														
- DIP Activity		Start Time		Call	ing DN		Orig Called DN	1	Final Called Dr	N	Calling Device Name	Called Dev	ice Name	Termination Cause Code
Session Trace Log View	2	018/08/20 14:28:07.887	3000			8851		8851			SEP74A02FC09CDF	SEPF8A5C59E112	16	(16) Normal call clearing. Expla
- 🌏 Real Time Data														
Open from Local Disk														
 Called Party Tracing 														
Device														
- m Device Summary														
- 🏠 Device Search														
- Summary Phone Summary														
Service														
CISCO IF IP														
Heartbeat														
Database Summary														
Crimanager														
Papert														
I earned Pattern														
SAE Eonwardere														
Intercompany Media Services														
AnalycicHanagor	1													
Analysismanager							🗹 Inc	ude SIP Me	ssage	T	frace Call			

步驟3.在「Search Criteria」下指定**主叫號碼、被叫號碼、開始時間**和**持續時間**,然後按一下 Run,如下圖所示。

<u>File System Voice/Video Analys</u>	Elle System Voice/Video AnalysisManager IIM and Presence Edit Window Application Help									
Real Time Monitoring Tool For Clisco Unified Communications Solutions										
System	•[🗂 Real Time Data								X
Voice/Video	8		Search Criteria						_	
Voice and Video Summary			Calling Number/URI			Start Time	2018-Aug-20 14:	01:32	-	
Voice and Video Summary			cumy number of			otart mite				
CallProcess			Called Number/URI	•		Duration	30	mins		
- 2 Call Activity						Time Zone	(GMT+5:30)India	Standard Time Asia/Calcutta	.	
Gateway Activity							(On 1 - 5.50) maia	Standard Time-HolarCalcatta		
Trunk Activity					Run					
- BDL Queue										
- SIP Activity		Collecting session information from node cucm-115								
Session Trace Log View										
Real Time Data			C	ollectina sessio	n information		[23]			
Open from Local Disk										
Called Party Tracing				Coller	cting session information					
Device				Collectin	a session information from	node(s)				
- Device Summary				oonooun	g occolor internation i com	1000(0)				
Device Search					Cancel					
- Whone Summary										
Service										
- 🕁 Heartbeat										
Database Summary										
CTI Manager										
CTI Search										
Report										
- 🖳 Learned Pattern										
SAF Forwarders										
Intercompany Media Services										
AnalysisManager										
IM and Presence										

步驟4.選擇所需呼叫,然後時鐘追**蹤呼叫**。如果要檢視SIP信令和SDP消息,必須選中**包括SIP消息** 的覈取方塊(如圖所示)。

Elle System Voice/Video AnalysisManager IIII and Presence Edit Window Application Help											
Real Time Monitoring Tool For Clace United Communications Solutions											
System	E	Real Time Data									X
Voice/Video				Search Criteria	-			[
Voice and Video Summary				Calling Number/URI	·	:	Start Time	2018-Aug-20 14:01:32	•		
Voice and Video Summary				Called Number/URI	*	_	Duration	30 mins			
CallProcess											
Call Activity						1	Time Zone	(GMT+5:30)India Standard Time-	sia/Calcutta 🔻		
Gateway Activity											
Trunk Activity						Run					
SDL Queue	F										
- is SIP Activity	-	Start Time 2000	Calli	ng DN	Orig Called DN	Final Call	led DN	Calling Device Name	Called Devi	ce Name	Termination Cause Code
Session Trace Log View	Ľ	10/00/20 14.20.07.007		1000	¢	5651		SEF 74A02FC09CDF	SEFF6ASCS9E112	0	(10) Normai cali creaning. Expla
Real Time Data											
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Device											
- Cevice Summary											
Device Search											
Phone Summary											
Service											
Cisco TFTP											
- 🅁 Heartbeat											
Database Summary											
сті											
- 😝 CTI Manager											
- 😓 CTI Search											
Report											
– 🚢 Learned Pattern											
SAF Forwarders											
Intercompany Media Services											
AnalysisManager	ŀ				1 Inclu	do SID Mossago	Tr	aco Call			
	1				E Incid	ue on message		acecali			

步驟5.您可以在**呼叫流程圖**部分下檢視整個呼叫流程,並點選檢視與任何特定SIP消息相關的日誌。

Analyze Call Diagram		×				
Call Flow Diagram Message Details						
						X
[SEP74A02FC09CDF]	[SEPF8A5	iC59E1126]				
10.106.99.230 10.10	06.99.199 10.106	.99.236	Start Time	2018-Aug-20 14:01:32	•	
(1) INVITE			Duration			
(2): 100 Traine	*		Duration	30 mins		
4 (<u>11) 100 (17) 100</u>	-		Time Zone	(GMT+5:30)India Standard Time-As	ia/Calcutta 🔻	
	(4): 100 Trying					
	(5): 180 Binging		alled DN	Calling Device Name	Called Device Name	Termination Cause Code
	+			SEF14A02FC09CDF	SEPPONDCOSE 1120	(To) Normal call cleaning. Expla
(6): 180 Ringing	_					
	[7]: 200 OK					
	[8]: ACK					
(9): 200 OK	-					
[10]: ACK	•					
	(11) BYE					
NO: BVE	•	1				
4	-					
Previous Messares	Displaying 14 messages. Next Messa	ages				
Trenda meadagea		ageo				
	Save Close					
SAF Forwarders						
AnalysisManager		Include SIP Message	Т	race Call		
IM and Presence		is measure in measure				

步驟6.特定消息的詳細信令顯示在**消息詳細資訊**部分下,要導航回呼叫流程,請按一下**呼叫流程圖** 。若要儲存特定通話的SIP記錄,請按一下**Save**,如下圖所示。

Analyze Call Diagram		8			
View Message Details View Detailed SIP Message View Message in Log File					X
Message Details SENDER: [SEP74A02FC09CDF] 10.1 GUD: 74a02fc0-9cdf000b-36585cd MSG_LABEL: INVITE RECEIVER: 10.106.99.199 MAC: ADDRESS SEP24A02FC09C1	106.99.230 -1a27ed87@10.106.99.230 DF	Start Time Duration Time Zone	2018-Aug-20 14:01:32 30 mins (GMT+5:30)India Standard Time-Asia/Calcutta	•	
MSCTAG: 515052 MSG_TVPE: UCM_CTRACE CORRELATIONID: 1,100,14,42786 TIMESTAMP: 2018/08/20 14:28:07.5	.2361^10.106.99.230^* 08	alled DN	Calling Device Name Calle SEP74A02FC09CDF SEPF8A5C51	d Device Name Termination C 9E1126 (16) Normal call d	ause Code earing. Expla
Detailed sup Aressage INVITE sip.8851@10.106.99.199,use Via: SIP2.0.0TCP 10.106.99.230.4949 From: "phone3000" < sip.3000@10.1 To < sip.3851@10.106.99.198> Call-ID: 74.02fc0-9cf0000-36f8Sc1 Max-Forwards: 70 Session-ID: 0b9e958a00105000a0007 Date: Mon. 20 Aug 2018 06.38:10 GM CSec; 101 INVITE Light Anamt. Circo, CB8815.12.1.1	rr=phone SIP/2.0 11/branch=s96G4bK2888573e 06.99.199>: tag=74a02fc09cdf0bcc1744debc-238adc95 d-1a27ed87@10.106.99.230 4a02fc09cdf;remote=000000000000000000000000000 T Previous Messages Displaying 14 messages. Next Messages	N X			
SAF Forwarders Intercompany Media Services	Save				
AnalysisManager	☑ Include SIP M	essage	Trace Call		
ini anu Presence					

步驟7.指定目標位置,並按圖所示,按一下Save。

Analyze Call Diagram	
View Message Details View Detailed SIP Message View Message in Log File	
Message Details SENDER: 10.106.99.199 GLID: 74402fc0-9cdf0006-3 MSG.LABEL: 180 Ringin MSGTAG: S15057 MSGTAG: S15057 OCRRELATONDE: 1,00.1 ILIS: CORRELATONDE: 1,00.1 OCRELATONDE: 1,00.1 MSGTAG: S15057 MSGTAG: S15057 OCRRELATONDE: 1,10.1 ILIS: OCRRELATONDE: 1,10.1 OWEVEE ngine Process Downloads Ogs IP2:0180 Ringing Via: SIP2:0 TCP 10.106.99.2 Folder name: Cull:D7: 440;60:0-96df0000-50348350:0-142/76037/g/10.100.99.230 Cseq: 101 INVITE Allow: Event: Events Now: Event: Events Save Claub: 7: 440;60:0-96df0000-50348350:0-142/76037/g/10.100.99.230 Cseq: 101 INVITE Allow: Event: Events Now: Event: Events Save Claub: 7: 440;60:0-96df0000-50348350:0-142/76037/g/10.100.99.230 Cseq: 101 INVITE Allow: Event: Events Save Claub: 7: 440;60:0-96df0000-503483500 Save Claub: 7: 440;60:0-96df0000-5034	Start Time Z018-Aug-20 14:01:32 Duration 30 mins Time Zone (GMT+5:30)India Standard Time-Asia/Calcutta alled DN Calling Device Name Called Device Name Termination Cause Code SEP74A02FC09CDF SEPF8A5C59E1126 (16) Normal call dearing. Expla
M and Presence	age Trace Call

驗證

目前沒有適用於此組態的驗證程序。

疑難排解

目前尚無適用於此組態的具體疑難排解資訊。