

CMS Edge لاثم نيوكت

تايوت حمل

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ةمدق م ل

Cisco نم (CMS) تاعامت ح ال م داخ ة فاح نيوكت ةي ف ي ك دن ت س م ل ا ذه ح ض و ي

ةيساس أال تابل طت م ل

تابل طت م ل

هذه CMS 3.x تانوك م ب ة فر ع م ك ي د ل نوكت ن ا ب Cisco ي ص و ت

- WebBridge 3
- ج ي ر ب ل ك
- C2W
- ة ي ا م ح ل ر ا د ج
- م دا خ ل ر و د

ةمدخت س م ل تانوك م ل

ةي ل ا ت ل ة ي د ا م ل تانوك م ل او ج م ا ر ب ل ا ت ا ر ا د ص ا ل ا دن ت س م ل ا ذه ي ف ة د ر ا و ل ا ت ا م و ل ع م ل ا دن ت س ت

- CMS3.X Open Virtual Appliance (OVA) ح و ت ف م ل ا ي ر ه ا ط ل ا ز ا ه ج ل ا
- Chrome ح ف ص ت م 122.0.6261.112 ر ا د ص ا ل ا
- Firefox 123.0.1 (20240304104836) ح ف ص ت م

ة ص ا خ ة ي ل م ع م ة ئ ي ب ي ف ة د و ج و م ل ا ة ز ه ج ا ل ا ن م دن ت س م ل ا ذه ي ف ة د ر ا و ل ا ت ا م و ل ع م ل ا ع ا ش ن ا م ت ت ن ا ك ا ذ ا . (ي ض ا ر ت ف ا) ح و س م م ن ي و ك ت ب دن ت س م ل ا ذه ي ف ة م د خ ت س م ل ا ة ز ه ج ا ل ا ع ي م ج ت ا د ب ر م ا ي ا ل ل م ت ح م ل ا ر ي ث ا ت ل ل ك م ه ف ن م د ك ا ت ف ، ل ي غ ش ت ل ا د ي ق ك ت ك ت ب ش

نيوكتال

قبسم نيوكت

1. ةكبشال تقو لوكوتورب مداخ نيوكت (NTP):

يساسال مداخال او CMS Edge مداخ ىلع NTP مداخ سفن نيوكت لصفال نم

2. لاجمال مسا مداخ نيوكت (DNS):

1. لىل DNS CMS Edge A لىلخادلا لىلخادلا ريشي (CMS Core مداخ لىلخاد DNS نيوكت ب مق)
CMS Edge A نىلخاس نيوكت بچي، كلذ رذعت اذو؛ CMS Edge مداخ لىلخادلا IP ناوونع
(چراخال IP ناوونع لىل رىشي و، CMS لىلخادلا IP ناوونع لىل امهدح ريشي).
2. IP ناوونع لىل CMS A چراخال DNS لىلخاس ريشي. CMS Edge مداخ لىلخادلا DNS نيوكت ب
CMS Edge ب صاخال چراخال.

3. لاصتال CMS Edge A لىلخادلا لىلخادلا CMS Core مدختسي.

4. ماع IP ناوونع لىلخاد CMS Edge لىل نىي ومومع لىل نىي مدختسم لىل لوصو.

5. مدختسم لىلخاد: cms.demo:

أ. CMS Edge لىلخاس:

- edge.cms.demo (internal user login with this A record)
- edge.cms.demo (public user also use same A record from internet, you could specify the different external A record)

ب. CMS Core لىلخاس:

core.cms.demo

6. مداخ CMS Core و Edge دامتعا جات ناب مق:

جات ناب عدهاش - أ

- cmscore-fullchain.cer (نىمضت كنكمي امك، رىلخمال يفة لىلخادلا لىلخادلا تاداهش تامدخال عىمخ نمضتت) (مداخال تاداهش)
- cmsedge-fullchain.cer (نىمضت كنكمي امك، رىلخمال يفة لىلخادلا لىلخادلا تاداهش تامدخال عىمخ نمضتت) (مداخال تاداهش)

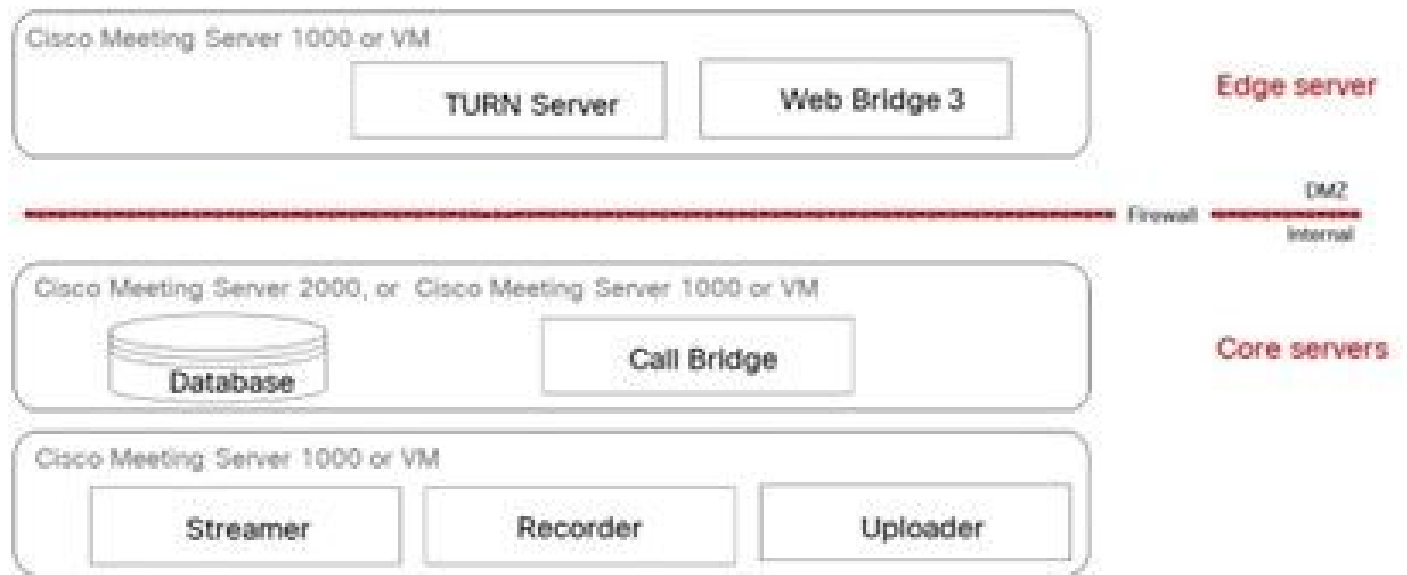
ب. نىمداخ نم لىلخاد لىلخادلا عدهاش جات ناب.

- cmscore-fullchain.cer (رذج ةداهش ةداهشلا هذه نمضتت)
- cmsedge-fullchain.cer (رذج ةداهش ةداهشلا هذه نمضتت)

ةكبش ل ل يطخ تال مسرلا

Table 7: Call capacities for server specifications with recommended hardware

Type of calls	1 x 4 vCPU VM call capacity	1 x 16 vCPU VM call capacity
Full HD calls 1080p30 video	100	350
HD calls 720p30 video	175	700
SD calls 440p30 video	250	1000
Audio calls (Q.711)	850	3000



CMS Core و Edge ةئيهت تاي لمع

1. يساسال CMS مءاخب ةطبءرمل تامءءال طيشنت.

ءراشال ةكبش نيوكء أ.

ةكبشال ةءاو طيشنت:

<#root>

ipv4 a add 10.124.56.224/24 10.124.56.1

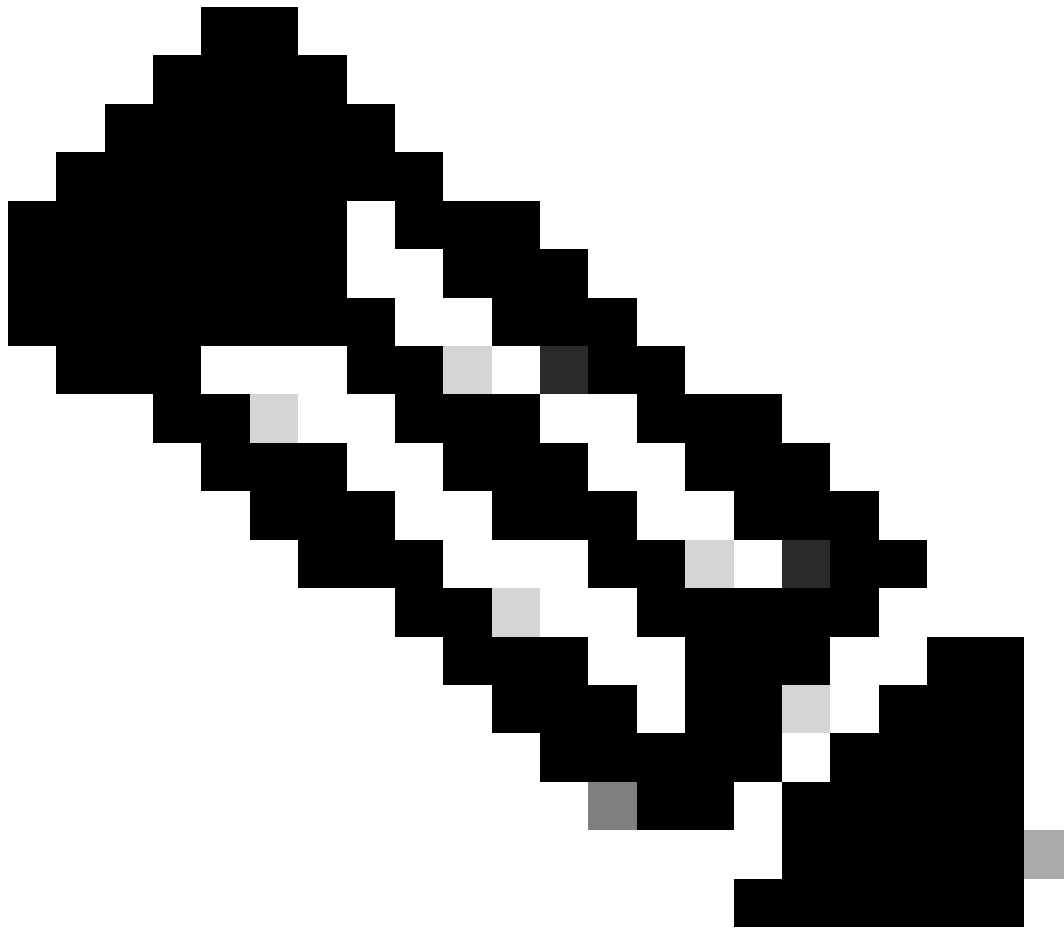
ب. نوكم طيشنت CallBridge.

<#root>

```
callbridge listen a
callbridge certs core.key cmscore-fullchain.cer
callbridge trust c2w cmsedge-fullchain.cer (if not, which result in WebRTC failed)
callbridge enable
```

2. مداخل طيشنت CMS Edge:

أ. كيشنت هجاو نيوكت.



ة. لخدال كيشنت هجاو ه A و، ةم الال كيشنت هجاو ه 'b': ةظحام

-
- ب، أ، عكش ل طيشنت
 - (مماع عكش هج او يه) b يه ه يضارت فالال عباوبل نيوكت
 - A ية لخالل عباوبل نيوكت

```
ipv4 a add 10.124.144.80/24 10.124.144.1  
ipv4 b add 10.124.42.112/24 10.124.42.1  
ipv4 b default
```

تانوكم ل ليوحت طيشنت ب.

```
turn certs edge.key cmsedge-fullchain.cer  
turn listen a b  
turn credentials <username> <password> <cms.demo> (cms.demo is actual domain deployment)  
turn public-ip x.x.x.x  
turn tls 447  
turn enable
```

تظالم:

1. NAT طرخ كانه نكي مل اذا: NAT طرخل ماعل ال IP اوع x.x.x.x.

- دشرم ال CMS ل تلحأ، يسفن بن تنيع تنك عيطتسي انايمل.

WebBridge3 تانوكم طيشنت ج.

```
webbridge3 https certs cmsedge.key cmsedge-fullchain.crt (cmsedge-fullchain.crt ,please refer to CMS fullchain document)
webbridge3 https listen b:445 (b is public network interface , this step just provide public users WebRTC service)
webbridge3 https listen a:445 b:445 (this step could provide both internal and external WebRTC service, but need to edge.cms.demo has two A records on
webbridge3 c2w certs edge.key cmsedge-fullchain.crt
webbridge3 c2w listen a:6000 (a is internal network interface, 6000 is self-defined port which need to keep the same with the below Webbridge URL)
webbridge3 c2w trust cmscore-fullchain.cer (if no this step, result in WebRTC failed)
webbridge3 enable
```

3. ةلصل ا تاذا تانوكم ل نېب ل لصاوت ل اءان ب.

أ - CallBridge <—> Turn (ةماع ل مالعال طئاس و ةمدخ)
ب. CallBridge <—> WebBridge3 (ةمدخ WebRTC)

تويوكت Turn و WebBridge3 ل CMS Core:

ةماع ل طئاس و ةمدخ طيشنت و Turn و CallBridge نېب ل لصتال ا نويوكت أ.

Configuration > General. ةمدخ ل لقتنا ، بول ا ةرادال (GUI) ةميوسر ل ا مدخت سمل ا ةهجاو ل ا لوخدل ل ليجست ب مق

General configuration

TURN Server settings

TURN Server address (CMS)

TURN Server address (web app)

Username

Password

Confirm password

Lync Edge settings

Server address

Username

Number of registrations

IVR

IVR numeric ID

Joining scheduled Lync conferences by ID

WebRTC ةمدخ طيشنت ب مق و WebBridge3 و CallBridge نېب ل لصتال ا نويوكت ب مق.

ل ا ثمل ل لېبس ل عل ، C2W ل لصتال ا فضا م ث ، CMS ل عل (API) ا قاي ب طتال ا ةمرب ةهجاو ربع WebBridge اءاشن اب مق ، WebBridge3 ةمدخ نويوكت عم هسفن ذفنمل اب طاقتحال ا ب هج (c2w://edge.cms.demo:6000).

/api/v1/webBridges/aa292aed-57bb-4305-b89d-eacd72172e4f

url	<input type="checkbox"/>	<input type="text" value="c2w://edge.cms.demo:6000"/>	(URL) - present
tenant	<input type="checkbox"/>	<input type="text"/>	<input type="button" value="Choose"/>
tenantGroup	<input type="checkbox"/>	<input type="text"/>	<input type="button" value="Choose"/>
callBridge	<input type="checkbox"/>	<input type="text"/>	<input type="button" value="Choose"/>
callBridgeGroup	<input type="checkbox"/>	<input type="text"/>	<input type="button" value="Choose"/>
webBridgeProfile	<input type="checkbox"/>	<input type="text"/>	<input type="button" value="Choose"/>
<input type="button" value="Modify"/>			

restart Callbridge component and apply all configuration
callbridge restart (go to CLI)

4. ماعال 22 ذفنملا ليطعتو ةيامحل رادج ةفيظونيكمتب مق (SSH).

firewall a default allow (a is the external/public network interface)
firewall a deny 22
firewall a enable

ةحصل نم ققحتلا

1. CMS Core و Edge لىلغشتلا ديق تامدخل عيمج نأ نم دكأت:

ةساسألا CMS تامدخ ةلاح:

```
CMS> webadmin Enabled : true TLS listening interface : a TLS listening port : 443 Key file : core.key Certificate file : cmscore-fullchain.cer HTTP redirection
```

تامدخ ةلاح CMS Edge:

```
CMS> webbridge3 Enabled : true HTTPS listening ports and interfaces : a:445 b:445 HTTPS Key file : edge.key HTTPS Full chain certificate file : cmsedge
```

2. عامتجالا لىل مامضنالاو WebRTC لىل لوخدلا ليجست ةلاح نم ققحتلا:

EN (US)



Cisco Meeting Server

web app

Join meetings, anywhere, anytime

Join a meeting

Sign in

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No one is sending video



اهحالصاواءاطخألا فاشكتسا

1. CMS Edge: بېوكراشم ىرت نأ كنكمي: كراشم ل فرعم. ةملاكملا ىلا مضمني "Thomas" بېوكراشم ىرت نأ كنكمي: fcfe42f4-ac94-4ab2-a14a-f4165ec960a7.

سساسألا CMS لچس فلم يف اذه كراشم ل فرعم ىلع روثلال نكمي.

Feb 23 09:02:21.588 local0.info CMS client_backend: INFO : WebApp Audit : Session: a77d94b1-ba12-4e4e-8f3e-86b3e9c1de8f : Participant Thomas per

Feb 23 09:02:21.599 local7.info CMS 3b8086e0e5a0 wb3_frontend: [Join call:fcfe42f4-ac94-4ab2-a14a-f4165ec960a7] 10.140.248.52 - - [23/Feb/2024:09

Feb 23 09:02:21.633 user.info CMS client_backend: INFO : WebSocket : Got authenticated JWT for guest1573064743 callbridge 320d02c3-7af5-4e4f-b51

ةملاكملا كرتب Webrtc يف كراشم ل موقمي:

Feb 23 09:02:37.982 local0.info CMS client_backend: INFO : WebApp Audit : Session: a77d94b1-ba12-4e4e-8f3e-86b3e9c1de8f : Participant Thomas(fc

2 - CMS Core: رمتؤملا اذه ىلا نورخأ نوكراشم مضمني امدين رمتؤملا فرعم سفن كانهو، رمتؤملا فرعم وه ىناوخرألا طخال: رمتؤملا اذه ىلا نورخأ نوكراشم مضمني امدين رمتؤملا فرعم سفن كانهو، رمتؤملا فرعم وه ىناوخرألا طخال: ددحمل مءختسمل فرعم وه قرزألا طخال: guest1573064743.

Feb 23 09:02:21.594 user.info CMS host:server: INFO : guest login request 1450660605: resolution in progress

Feb 23 09:02:21.594 user.info CMS host:server: INFO : guest login request 1450660605: call ID lookup scheduled
Feb 23 09:02:21.594 user.info CMS host:server: INFO : guest login request 1450660605: resolution in progress
Feb 23 09:02:21.597 user.info CMS host:server: INFO : guest login request 1450660605: credential storage scheduled (queue length: 1)
Feb 23 09:02:21.597 user.info CMS host:server: INFO : created guest account with user ID "guest1573064743"
Feb 23 09:02:21.597 user.info CMS host:server: INFO : guest login request 1450660605: credential storage executed
Feb 23 09:02:21.597 user.info CMS host:server: INFO : guest login request 1450660605: credential storage in progress
Feb 23 09:02:21.598 user.info CMS host:server: INFO : guest login request 1450660605: successfully stored credentials
Feb 23 09:02:21.598 user.info CMS host:server: INFO : instantiating user "guest1573064743"
Feb 23 09:02:21.598 user.info CMS host:server: INFO : conference db0fafc3-ad47-43bd-bcbd-47886416451b: locked due to lack of lock consensus
Feb 23 09:02:21.598 user.info CMS host:server: INFO : conference db0fafc3-ad47-43bd-bcbd-47886416451b: lock state has changed to locked
Feb 23 09:02:21.598 user.info CMS host:server: INFO : API "9999" Space GUID: 58ef98d1-5181-4e63-a386-4b60597be7e4 <--> Call Correlator GUID: 5
Feb 23 09:02:21.598 user.info CMS host:server: INFO : unable to apply logo (space '9999') -- no license
Feb 23 09:02:21.599 user.info CMS host:server: INFO : conference db0fafc3-ad47-43bd-bcbd-47886416451b: lock state has changed to unlocked
Feb 23 09:02:21.599 user.info CMS host:server: INFO : API call leg fcf42f4-ac94-4ab2-a14a-f4165ec960a7 in call db0fafc3-ad47-43bd-bcbd-47886416451b
Feb 23 09:02:21.599 user.info CMS host:server: INFO : conference db0fafc3-ad47-43bd-bcbd-47886416451b has control/media GUID: bf286660-6e5d-40
Feb 23 09:02:21.599 user.info CMS host:server: INFO : conference db0fafc3-ad47-43bd-bcbd-47886416451b named "9999"
Feb 23 09:02:21.601 user.info CMS host:server: INFO : new session created for user "guest1573064743"
Feb 23 09:02:21.603 local0.info CMS postgres[54639]: [6-1] 2024-02-23 09:02:21.603 UTC [54639] LOG: could not send data to client: Broken pipe
Feb 23 09:02:21.603 local0.err CMS postgres[54639]: [7-1] 2024-02-23 09:02:21.603 UTC [54639] FATAL: connection to client lost
Feb 23 09:02:21.768 user.info CMS host:server: INFO : call 11: allocated for guest1573064743 / "Thomas" conference participation (Firefox)
Feb 23 09:02:21.768 user.info CMS host:server: INFO : call 11: configured - API call leg fcf42f4-ac94-4ab2-a14a-f4165ec960a7
Feb 23 09:02:21.768 user.info CMS host:server: INFO : call 11: ActiveControlState change, unknown -> unknown
Feb 23 09:02:21.769 user.info CMS host:server: INFO : call 11: setting up combined RTP session for DTLS (combined media and control)
Feb 23 09:02:21.770 user.info CMS host:server: INFO : call 11: ActiveControlState change, unknown -> inactive
Feb 23 09:02:21.770 user.info CMS host:server: INFO : call 11: ActiveControlState finality change (inactive, final=1)
Feb 23 09:02:21.770 local0.info CMS host:server: INFO : participant "guest1573064743" joined space 58ef98d1-5181-4e63-a386-4b60597be7e4 (9999)
Feb 23 09:02:21.770 user.info CMS host:server: INFO : participant "guest1573064743" (fcf42f4-ac94-4ab2-a14a-f4165ec960a7) joined conference db0fafc3-ad47-43bd-bcbd-47886416451b
Feb 23 09:02:21.772 user.info CMS host:server: INFO : call 11: starting DTLS combined media negotiation (as initiator)

Feb 23 09:02:21.772 user.info CMS host:server: INFO : call 11: starting DTLS combined media negotiation (as initiator)

WebRTC مدمج مع CMS: guest1573064743 كرت 58ef98d1-5181-4e63-a386-4b60597be7e4 (9999).

Feb 23 09:02:37.943 user.info CMS host:server: INFO : user "guest1573064743": deactivating due to session resource teardown
Feb 23 09:02:37.943 user.info CMS host:server: INFO : call 11: tearing down ("guest1573064743" conference media)
Feb 23 09:02:37.943 user.info CMS host:server: INFO : call 11: destroying API call leg fcf42f4-ac94-4ab2-a14a-f4165ec960a7
Feb 23 09:02:37.943 local0.info CMS host:server: INFO : participant "guest1573064743" left space 58ef98d1-5181-4e63-a386-4b60597be7e4 (9999)
Feb 23 09:02:37.943 user.info CMS host:server: INFO : removing guest account 'guest1573064743' (name 'Thomas') on call drop
Feb 23 09:02:37.943 user.info CMS host:server: INFO : destroying guest account with user ID "guest1573064743"
Feb 23 09:02:37.944 user.info CMS host:server: INFO : conference bf286660-6e5d-403f-8926-514d385dad3c destroyed

ملصقات تامة

- [Cisco-Meeting-Server-3-8-Single-Combe-Server-Deployment](#)
- [Cisco-Meeting-Server-3-8-Single-Split-Server-Deployment](#)
- [Cisco تم التثبيت اولى بنفلا امعدلا](#)

ةمچرتل هذه لوج

ةللأل تاي نقتل نم ةومجم مادختساب دن تسمل اذ Cisco تچرت
ملاعلاء انء عي مج ي ف ني مدختسمل معد ي وتحم مي دقتل ةيرشبل او
امك ةقيقد نوك تنل ةللأل ةمچرت لصف ان ةظحال م يچري . ةصاخل مه تغلب
Cisco ي لخت . فرتحم مچرت م اهم دقي ي تلل ةي فارتحال ةمچرتل عم لالحل وه
ىل اءمءاد عوچرلاب ي صوءو تامچرتل هذه ةقد نع اهتيل وئسم Cisco
Systems (رفوتم طبارل) ي لصلأل يزي لچنل دن تسمل