ةقداصم WLC PEAP ةلسلسلا نم WLC PEAP ة نيوكت لائم عم Microsoft NPS

تايوتحملا

الموتعمة المحتصل التابل عليه المحتصل تابل عليه المحت المما الممما المما المما المما

ەمدقملا

يمحملاا عسوتملاا ةقداصملا لوكوتورب نيوكت ةيفيك دنتسملا اذه فصي (PEAP) يمحملا عسوتملا ةقداصمل الوكوتورب ةقداصم مادختساب ل يدحتلا ةميقب لاصتالا ديكأتل ةقداصملا لوكوتورب ةقداصم مادختساب نم (WLAN) عمجملا لوصولا تاذ ةيكلساللا AN ةكبش رشن ىلع (MS-CHAP v2) 2 رادصإلا Cisco مداخك (NPS) قكبش جهن مداخ مادختساب Cisco

ةيساسألا تابلطتملا

تابلطتملا

دisco يف فصي ليكشتلا لواحت تنأ نأ لبق عوضوم اذه نم ةفرعم تنأ ىقلتي نأ يصوي cisco ةقيثو اذه:

- يساسألا Microsoft Windows Version 2008 تيبثت •
- نم (WLAN) ةيكلساللاا ةيلحملا ةكبشلل عمجملا لوصولا يف مكحتلا ةدحو تيبثت Cisco

نيوكتلا اذه ءارجإ لواحت نأ لبق تابلطتملا هذه ءافيتسا نم دكأت:

- مداخ لك ىلع (OS) 2008 رادصإلاا Microsoft Windows Server ليغشتلا ماظن تيبثتب مق رابتخالا ربتخم يف.
- .تامدخلا مزح عيمج ثيدحتب مق •
- ليف لوصولا طاقنو مكحتلا تادحو تيبثتب مق Lightweight (LAPs).

. جماربلا تاثيدحت رخآ نيوكتب مق •

يف مكحتلا تادحول يلوألا تيبثتلاو نيوكتلا تامولعم ىلع لوصحلل :**قظحالم** <u>قدحو</u> ىلإ عجرا ،Cisco نم عمجملا لوصولا تاذ (WLAN) ةيكلساللا ةيلحملا ةكبشلا <u>مكحتلا</u> C<u>t5760 مكحتلا</u> م<u>كحتلا</u>

ةمدختسملا تانوكملا

ةيلاتلا ةيداملا تانوكملاو جماربلا تارادصإ ىلإ دنتسملا اذه يف ةدراولا تامولعملا دنتست

- Cisco 5760 Series WLAN Controller، كالسأ ةنازخ نم يلاتال ليجلا) 3.3.2 رادصإلا (NGWC)
- Cisco 3602 Series LAP ةُلسلسلا نم Lightweight عضولاا يف لوصولاا ةطقن •
- ntel نم ProSet ليمع عم Intel نم Intel
- مداخ Microsoft Windows Version مداخ NPS ليغشتب موقي يذلا لاجملاب
- الوحمل Cisco Catalyst 3560 Series Switch

ةصاخ ةيلمعم ةئيب يف ةدوجوملا ةزهجألاا نم دنتسملا اذه يف ةدراولا تامولعملا ءاشنإ مت. تناك اذإ .(يضارتفا) حوسمم نيوكتب دنتسملا اذه يف ةمدختسُملا ةزهجألاا عيمج تأدب رمأ يأل لمتحملا ريثأتلل كمهف نم دكأتف ،ةرشابم كتكبش.

ةيساسأ تامولعم

ليمع نيب ةرفشم ةانق ءاشنإ لجأ نم (TLS) لقنلا يوتسم نيمأت PEAP مدختسي مداخ يأ وأ Microsoft NPS لثم ،PEAP ققداصمو ،يكلسال لومحم رتويبمك لثم ،قدصم ققداصملا تالوكوتوربل ايفاضإ انامأ رفوي هنكلو ةقداصم ةقيرط PEAP ددجي ال RADIUS. قرفشملا قانقلال لالخ نم لمعت نأ نكمي يتلا AP-MS-CHAP v2 لثم يرخألاا (EAP) قعسوملا تيتلحرم نم PEAP ققداصم قيلمع فلأتت .PEAP قطساوب اهريفوت متي يتلا TLS ينيتريتريت

ةرفشملا TLS ةانق :PEAP نم ىلوألا ةلحرملا

لمع ةسلج ىلع ضوافتلا متي ،حاجنب NPS و يكلساللا ليمعلا نيب ةقداصملا لامتكا دعب TLS لك ريفشتل ضوافتلا اذه نم دمتسملا حاتفملا مادختسإ متي .NPS و ليمعلا نيب ا.ةقحاللا تالاصتالا

EAP ةطساوب هيلع قيدصتلا مت يذلا لاصتالا :PEAP نم ةيناثلا ةلحرملا

ةطساوب اهؤاشنا متي يتلا TLS قانق لخاد ،EAP ضوافت نمضتي يذلاو ،EAP لاصتا ثدحي عم يكلساللا ليمعلا NPS قداصي .PEAP قداصم قيلمع نم ىلوألا قلحرملا نمض PEAP قداعإب طقف مكحتلا قدحوو Lightweight عضولا يف لوصولا طاقن موقت .EAP-MS-CHAP v2 مداغو يكلساللا ليمعل انيب لئاسرلا هيجوت يف مكحتلا قدحو ىلع رذعتي .RADIUS مداغو يكلساللا ليمعلا نيب لئاسرلا هيجوت كف مكحتلا قدحو ملع رفعتي .RADIUS مداغو يكلساللا ليمعلا نيب لئاسرلا هيجوت كف (ULC) قيكل المالي الي مولا يف لوصولا ماقن موقت .TLS مداغو قطقن تسيل (WLC) ميك مل العام الي المالي الكامي الماليا الي الماليا مي من توفي مكريا المالي الماليا الماليا الي معلا المالي من المالي ال مدختسملا موقي ثيح ،ةحجانلا ةقداصملا تالواحمل RADIUS لئاسر لسلست يلي اميف عم رورملا ةملك ىلٍ ةدنتسم ةحلاص دامتعا تانايب ريفوتب

1. ليمعلا الاي الله الله الله المار الماري السري السري .

EAP-Request/Identity

3: ةيوەلا ةباجتسإ ةلاسرب ليمعلا دري:

EAP-Response/Identity

3. يدحت ةلااسر NPS يدحت ةلاسر NPS لسري

EAP-Request/EAP-Type=EAP MS-CHAP-V2 (Challenge)

4. يدحتب ليمعلا بيجتسي MS-CHAP v2 يدحتب ليمعلا بيجتسي

EAP-Response/EAP-Type=EAP-MS-CHAP-V2 (Response)

5. ليمعلا ةقداصمب مداخلا موقي امدنع MS-CHAP v2 حاجن ةمزح مادختساب NPS بيجتست جاجنب:

EAP-Request/EAP-Type=EAP-MS-CHAP-V2 (Success)

6. ةقداصمب ليمعلا موقي امدنع MS-CHAP v2 حاجن ةمزح مادختساب ليمعلا بيجتسي. حاجنب مداخلا:

EAP-Response/EAP-Type=EAP-MS-CHAP-V2 (Success)

- 7. ةحجانلا ةقداصملا ىل ريشي يذلا (EAP-length-value (TLV عون NPS عون.
- 8. قلاح حاجن ةلااسرب ليمعلا بيجتسي EAP-TLV.
- تاكبش رشن مت اذإ .يداع صن يف EAP-Success ةلاسر لسريو ةقداصملا مداخلا لمكي .9 .ةلاسرلا هذه يف VLAN ةكبش تامس نيمضت متيسف ،ليمعلا لزعل VLAN

نيوكتلا

MLC رشن ىلع MS-CHAP V2 ةقداصم مادختساب PEAP نيوكتل مسقلاا اذه مدختسأ مادختساب Cisco مداخك Microsoft NPS مادختساب Cisco نم عمجملا لوصول

ةكبشلل يطيطختلا مسرلا



:ةيلاتا راودألا ذيفنتب 2008 رادصإلا Microsoft Windows مداخ موقي ،لاثملا اذه يف

- اجمل لاجمل بمكحتال wireless.com لاجمل
- (DNS) لاجملا مسا ماظن مداخ •
- (CA) ةداەشلا حنم ةەج مداخ •
- نييكلساللا نيمدختسملا ةقداصمل NPS •
- مدختسملا تانايب ةدعاق ىلع ظافحلل (AD Active Directory همدخ •

امك .حضوم وه امك ،(L2) 2 ةقبطلاا نم لوحم لالخ نم ةيكلسلاا ةكبشلاب مداخلا لصتي عضولا يف لوصولا ةطقنو (WLC) ةيكلساللاا ةيلحملا ةكبشلا يف مكحتلا ةدحو لصتت Lightweight (LAP) لوحم لالخ نم ةكبشلاب ةلجسملا

تانيوكتلا

:نيتوطخ يف مسڨلا اذه يف حضوملا نيوكتلا لامكإ متي

- . GUI وأ CLI لا عم GUI دا 5760/3850 sery WLC لا تلكش 1.
- 2. تاباسحو لاجملاب مكحتالا ةدحوو NPS ل 2008 رادصإلا Microsoft Windows مداخ نيوكتب مق ما يلع نيمدختسمل AD.

رماوألا رطس ةەجاو مادختساب عمجملا لوصولل WLC تاكبش نيوكت

ىلا اەطيطختو ةبولطملا ليمعلا VLAN ةكبشل WLAN قكبش نيوكتل تاوطخلا ەذە لمكأ مادختساب ةقداصملا قرط ةمئاق (رماوألا رطس ةەجاو) CLI مادختساب ققداصمل

يف مكحتلا رصنع ىلع dot1**x ماظنلا ةقداصم يف مكحتلا** نيكمت نم دكأت :**ةظحالم** لمعت ال dot1X نأ وأ ،(WLC) ةيكلساللا ةيلحملا ةكبشلا.

- 1. **ديدجلا AAA جذومن** ةزيم نيكمتب مق.
- .RADIUS مداخ نيوكتب مق .2
- مداوخلا ةعومجم ىلإ مداخلا ةفاضإ .3
- .بيلاسألا ةمئاق ىلإ مداوخلا ةعومجم نييعتب مق .4
- 5. قكبش ىلإ قرطلا ةمئاق نييعتب مق

```
aaa new-model
!
!
aaa group server radius Microsoft_NPS
server name Microsoft_NPS
!
aaa authentication dot1x Microsoft_NPS group Microsoft_NPS
aaa authorization network Microsoft_NPS group Microsoft_NPS
```

```
radius server Microsoft_NPS
address ipv4 10.104.208.96 auth-port 1645 acct-port 1646
timeout 10
retransmit 10
key Cisco123
```

```
wlan Microsoft_NPS 8 Microsoft_NPS
client vlan VLAN0020
no exclusionlist
security dot1x authentication-list Microsoft_NPS
session-timeout 1800
no shutdown
```

(GUI) ةيموسرلا مدختسملا ةهجاو مادختساب عمجملا لوصولل WLC تاكبش نيوكت

:gui لا عم Converged Access WLCs لا تلكش steps in order to اذه تمتأ

1. نيكمت dot1x system-auth-control:

cisco Wireless Controller	Home	Monitor 💌	Configuration
	TIT HOING	1-IOI IICOI I	Configuration
Security	General		
- AAA			
 Method Lists 	Dot1x System Auth Control		✓
u General	Local Authentication	None	•
 Authentication 	Local Authorization	None	•
Accounting			
and a second sec			

2. مداخ ةفاضإل AAA < نامألا < نيوكتلا ىلإ لقتنا



3. مداخب صاخلا IP ناونع ثيدحتب مقو ،NEW قوف رقناو ،**مداوخلا < RADIUS** يلإ لقتنا يذلا كرتشملا رسلا عم كرتشملا رسلا قباطتي نأ بجي .كرتشملا رسلا عم RADIUS مداخ يلع هنيوكت مت.

Security	Radius Servers Radius Servers > Edit	
T 🚍 AAA		
Method Lists	Server Name	Microsoft_NPS
🕨 🚞 Server Groups	Server IP Address	10.104.208.96
T 🔁 RADIUS	Shared Secret	
Servers	Confirm Shared Secret	•••••
Falback	Auth Port (0-65535)	1645
TACACS+ Servers	Acct Part (0-65535)	1646
LDAP Servers	Server Timeout (0-1000) secs	10
Users	Retry Count (0-100)	10
MAC Filtering		
AP Policy	Support for RFC 3576	
k 🧮 Local EAD		

يلي امل ةلثامم مداخلا بيوبتلا ةمالع رهظت نأ بجي ،RADIUS مداخ نيوكت دعب:

սիսիս					
CISCO Wireless Controller	🏡 Home	Monitor 🛛 🔹 Co	nfiguration 🔻	Administration 🔻	Help
Security	Radius Servers				
▼ 🚘 дад	New Remove				
🕨 🚞 Method Lists	Server Name	Address	Auth Port	Acct Port	
🕨 🧰 Server Groups	ACS	10.106.102.50	1645	1646	
* C RADIUS	ISE ISE	10.106.96.21	1645	1646	
Servers	Microsoft_NP5	10.104.208.96	1645	1646	

4. مداخ فضأ ،كلذ دعب .ةعومجملا عونل **RADIUS** ددحو مداوخ ةعومجم نيوكتب مق ةقباسلا ةوطخلا يف هتأشنأ يذلا:

Security	Radius Server Groups >	ups Edit			
Tea Aaa					
🕨 🚞 Method Lists	Group Name		Microsoft NPS		
Server Groups	diodp Marie				
Radus	MAC-delimiter		none 💌		
Tacacs+	MAC-filtering		none 💌		
Ldap	Dead-time (0-1440) ir	minutes			
🕨 🧮 RADIUS	Group Type		Radius		
TACACS+ Servers		Augilable Compa		Assigned Courses	
LDAP Servers		ACS	2	Microsoft NPS	*
Cusers Cusers	Servers In This Group	ISE			
MAC Filtering					
AP Policy			-	·	-

نيوكتلا دعب ةلثامم مداوخلا ةعومجم رەظت نأ بجي:

Security	Radius Server Groups			
T 🔁 AAA	New Remove			
🕨 🚞 Methad Lists	Name	Server1	Server2	Server3
Server Groups	ACS	ACS	N/A	N/A
Radius	ISE	ISE	N/A	N/A
Tacacs+		Microsoft_NPS	N/A	N/A
- L dan				

نييعتب مق ،كلذ دعب .ةعومجملا عونل **قعومجملاو** ةقداصملا قرط ةمئاق عونل dot1x ددح .5 ةقباسلا ةوطخلا يف اهنيوكتب تمق يتلا مداوخلا قعومجم:

Security	Authentication Authentication > Edit				
т 🧫 ада					
Method Lists	Method List Name	Microsoft_NPS			
General	Type	dot1s			
Authentication	1900				
Accounting	Group Type	group			
Authorization	Falback to local	Disabled			
🕨 🧮 Server Groups		Available Server Groups		Assigned Server Groups	
RADIUS		ACS A		Microsoft_NPS	*
TACACS+ Servers	Groups In This Method	ISE			
LDAP Servers					-
Users			_	L	

نيوكتلا دعب اذهل ةلثامم ةقداصملا قرط ةمئاق رهظت نأ بجي:

Security	Authe	entication				
- 🚘 AAA	New	Remove				
🕶 🔤 Method Lists	N	Jame	Туре	Group Type	Group1	Group2
General		.ocal_webauth	login	local	N/A	N/A
Authentication	🗆 d	lefault	dot1x	local	N/A	N/A
Accounting	Δ Α	ACS	dot1x	group	ACS	N/A
		SE	dot1x	group	ISE	N/A
	🗆 e	apfast	dotix	local	N/A	N/A
Server Groups	V	Vebauth	dot1x	group	ACS	N/A
RADIUS		/icrosoft_NPS	dot1x	group	Microsoft_NPS	N/A
Distance of the						

نييعتب مق ،كلذ دعب .ةعومجملا عونل **ةعومجملاو** ليوختلا قرط ةمئاق عونل **ةكبش** ددح .6 ةقباسلا ةوطخلا يف اەنيوكتب تمق يتلا مداوخلا ةعومجم:

Security	Authorization Authorization > Edit				
- E AAA					
Method Lists General Authentication	Method List Name Type	Microsoft_NPS			
Accounting	Group Type	group			
Authorization Server Groups RADIUS TACAC5+ Servers	Groups In This Method	Available Server Groups ACS ISE Motor	, ,	Assigned Server Groups	

نيوكتلا دعب اذهل ةلثامم ليوختلا قرط ةمئاق رهظت نأ بجي:

Security	Authorization				
лаа 🚘 🖛	New Remove				
Method Lists	Name	Туре	Group Type	Group1	Group2
General	🗆 default	network	local	N/A	N/A
Authentication	Webauth	network	group	ACS	N/A
Accounting		network	group	Microsoft_NPS	N/A
Qutherinting !	default	credential-download	local	N/A	N/A
E Server Groups	eapfast	credential-download	local	N/A	N/A

ةكبش نيوكت .**WLAN ةكبش** بيوبت ةمالع قوف رقناو **يكلسال < نيوكت** ىلإ لقتنا .7 WLAN مداخ لالخ نم اهيلع ةقداصملاو اهب لاصتالا نيمدختسملل نكمي ةديدج WLAN NPS قداصمب EAP:

Wireless	WLAN	
▼ 🚞 WLAN	General Security	QOS AVC Policy Mapping Advanced
WLANs Access Points	Profile Name	Mcrosoft_NPS
 BD2.11a/n/ac 	Туре	WLAN
802.11b/g/n	SSID	Microsoft_NP5
🕨 🧮 Media Stream	Status	🔽 Disabled
> <mark></mark> QOS	Security Policies	[WPA2][Auth(802.1x)] (Modifications done under security tab will appear after applying the changes.)
	Radio Policy	AI 💌
	Interface/Interface Group(G)	VLAN0020 😥
	Broadcast SSID	
	Multicast VLAN Feature	

نيوكتلا دعب اذهل ةهباشم نامألل L2 بيوبت ةمالع رهظت نأ بجي:

Wireless	WLAN
	WLAN > Edit
VLAN	General Security QOS AVC Policy Mapping Advanced
WLANS	Laver2 Laver2 A&& Server
Access Points	
▶ 🧰 802.11a/n/ac	Layer 2 Security WPA + WPA2 💌
▶ 🚞 802.11b/g/n	MAC Filtering
🕨 🚞 Media Stream	Fast Transition 🗆
> 🧰 QOS	Over the DS
	Reassociation Timeout 20
	WPA+WPA2 Parameters
	WPA Policy
	WPA2 Policy 🗹
	WPA2 Encryption 🗹 AES. 🗆 TKIP
	Auth Key Mgmt 802.1x *

كلذ دعاسي .ةقباسلا تاوطخلا يف اەنيوكتب تمق يتلا قرطلا ةمئاق نييعتب مق .8 حيحصلا مداخلا ىلا ليمعلا ةقداصم يف.

Wireless	
V 🔤 WLAN	General Security QOS AVC Policy Mapping Advanced
WLANS Access Points	Layer2 Layer3 AAA Server
▶ 🧰 802.11a/n/ac	Authentication Method
802.11b/g/n	Accounting Method Disabled 🔎
 Media Stream QOS 	Local EAP Authentication

2008 رادصإلI Microsoft Windows مداخ ىلع نيوكتلI

نيوكتلا لامكإ متي .2008 رادصإلا Microsoft Windows مداخل لماك نيوكت مسقلا اذه فصي تاوطخ تس يف:

- الجملاب مكحت ةدحوك مداخلا نيوكتب مق .1.
- .2 مداخك ەنيوكتو مداخلا تيبثتب مق
- .NPS تيبثتب مق .3
- .ةداەش تيبثت .4
- .5 ةقداصمل NPS نيوكتب مق .5 PEAP.
- .نالعإلا ىلإ نيمدختسم ةفاضإ .

لاجملاب مكحت ةدحوك Microsoft Windows 2008 مداخ نيوكت

لاجملاب مكحت ةدحوك Microsoft Windows Version 2008 مداخ نيوكتل ةيلاتانا تاوطخلا لمكأ:

.**راودأ ةفاضإ** < راودأ < **مداخلا ريدم** < **أدبا** ىلإ لقتنا .1

Server Manager (WIN2K8)		
TT TA Deles	Server Manager (WIN2K0)	
E markades Filler Ali Features	100	
🗷 📠 Diagnostics	Get an overview of the status of this server, perform top	nanagement tasks, and add or remove server roles and features.
Configuration	1440 C	
🗄 🔤 storage	[a	
	(e) Server Summary	
	Compute: Information	
	Full Computer Name:	winzhs.wheless.com
	Demain:	wireless.com
	Local Area Connection:	10.104.208.96
	Remote Desktop:	Enabled
	Server Manager Remote Management:	Disabled
	Product ID:	00466-001-0001076-84117 (Activated)
	Do not show me this console at logon	
	Security Information	
	Windows Firewalt	Domain: On
	Windows Lipdetes:	Instal updates automatically using a managed updating service
	Last checked for updates:	Vesterday at 5:09 PM
	Last installed updates:	Today at 3:00 AM
	IE Enhanced Security Configuration (ESC):	On for Administrators On for Licens
		Cirror Esers
🛴 Server Manager		
File Action View Help		
(= =) 🖄 📅 📓		
Server Manager (WIN-MVZ9Z2UMV Roles		
Roles		
E Biagnostics	withe beatch of the roles installed on up a server and add or remove a	nles and features
Configuration		
E Storage		
Roles Sun	nmary	Roles Summary Help
Storage Roles Sun	nnary	Roles Summary Help
Storage Roles Sun Roles:	nmary D of 17 installed	Add Roles
Sorage Roles Sun Roles:	nmary D of 17 installed	Add Roles
Sorage Roles Sun Roles:	n mary D of 17 installed	Add Roles
Sorage Roles Sun Roles:	nmary D of 17 installed	Add Roles
Sorage Roles Sun Roles:	nmary D of 17 installed	Add Roles
Storage Roles Sun Roles:	nmary 0 of 17 installed	Roles Summary Help Add Roles Remove Roles
Sorage Roles Sur Roles:	nmary D of 17 installed	Roles Summary Help Add Roles Remove Roles
Storage Roles Sun Roles:	nmary D of 17 installed	Roles Summary Help Add Roles Remove Roles
Sorage Roles Sur Roles:	nmary D of 17 installed	Roles Summary Help Add Roles Remove Roles

2. (**يلاتان) Next (يلاتا**).

E

4

Configure refresh: 2/9/2013 9:31:18 AM Configure refresh

Add Roles Wizard	×
Before You Begin	
Before You Begin Server Roles Confirmation Progress Results	This wizard helps you install roles on this server. You determine which roles to install based on the tasks you want this server to perform, such as sharing documents or hosting a Web site. Before you continue, verify that: • The Administrator account has a strong password • Network settings, such as static IP addresses, are configured • The latest security updates from Windows Update are installed If you have to complete any of the preceding steps, cancel the wizard, complete the steps, and then run the wizard again. To continue, click Next. Skip this page by default
	< Previous Next > Install Cancel

3. قوف رقناو Active Directory Domain Services رايتخالا المناخ ددح Next.

Add Roles Wizard		×
Select Server Ro	les	
Before You Begin Server Roles Active Directory Domain Services Confirmation Progress Results	Select one or more roles to install on this server. Roles: Active Directory Certificate Services Active Directory Domain Services Active Directory Pederation Services Active Directory Rights Management Services DHCP Server DNS Server File Services Vetwork Policy and Access Services Print Services UDDI Services Web Server (IIS) Windows Deployment Services Windows Server Update Services	Description: Active Directory Domain Services (AD) DS) stores information about objects on the network and makes this information available to users and network administrators. AD D5 uses domain controllers to give network users access to permitted resources anywhere on the network through a single logon process.
	< Previous Next	> Instal Cancel

.**يلاتلا** قوف رقناو Active Directory لاجم تامدخ **قمدقم** عجار .4



5. تيبثتلا ةيلمع ءدبل **تيبثت** ىلع رقنا.

Add Roles Wizard		×
Confirm Installat	ion Selections	
Before You Begin Server Roles Active Directory Domain Services Confirmation	To install the following roles, role services, or features, click Install.	
Progress	Active Directory Domain Services	
Results	After you install the AD DS role, use the Active Directory Domain Services Installation Wizard (dcpromo.exe) to make the server a fully functional domain controller.	
	Print, e-mail, or save this information	
	< Previous Next > Install Cancel	

لمتكيو تيبثتلا رمتسي.

6. **مدخ لاجم تامدخ تيبثت جلاعم ليغشتو جلاعملا اذه قالغإ** قوف رقنا منيوكتو رامثتسالا نالعإ تيبثت ةعباتمل (dcpromo.exe).



.7 كاجم تامدخ تيبثت جلاعم ليغشتل يلاتي قوف رقنا .7 Active Directory

🔄 Active Directory Domain	Services Installation Wizard	×
	Welcome to the Active Directory Domain Services Installation Wizard This wizard helps you install Active Directory Domain Services (AD DS) on this server, making the server an Active Directory domain controller. To continue, click Next.	
	Use advanced mode installation Learn more about the additional options that are available in <u>advanced mode installation</u> .	
	More about Active Directory Domain Services	
	< Back Next > Cancel	

.**يلاتلا** قوف رقناو **ليغشتلا ماظن قفاوت** لوح تامولعملا عجار .8

 V		
Active Director	v Domain Services 🛾	Installation Wizard

1

Uper \	ating System Compatibility mproved security settings in Windows Servi Vindows	er 2008 affect o	der versions of	
Â	Windows Server 2008 domain controllers security setting named "Allow cryptograph 4.0." This setting prevents Microsoft Wind using weaker NT 4.0 style cryptography a sessions against Windows Server 2008 d default, operations or applications that red Windows Server 2008 domain controllers	have a new mo ny algorithms cor dows and non-M algorithms when lomain controller quire a security o might fail.	re secure default mpatible with Win icrosoft SMB ''cliv establishing secu s. As a result of th channel serviced l	for the dows NT ents'' from rity channel is new by
	Platforms impacted by this change include SMB "clients" and network-attached stor- stronger cryptography algorithms. Some o Windows earlier than Vista with Service F join operations performed by the Active D Deployment Services.	e Windows NT 4 age (NAS) devic perations on clie Pack 1 are also i irectory Migratio	I.O, as well as nor es that do not su ents running versio mpacted, includin n Tool or Window	n-Microsoft pport ons of g domain 's
	For more information about this setting, se (http://go.microsoft.com/fwlink/?LinkId=	e Knowledge Ba 104751).	ase article 942564	1
		< Back	Next >	Cancel

in order to **كلذ دعب** ةقطقطو رز يكلسال **ديدج ةباغ يف ديدج لاجم create لا** تقطقط .9 ديدج لاجم تقرلخ.

\overline Active Directory Domain Services Installation Wizard	×
Choose a Deployment Configuration You can create a domain controller for an existing forest or for a new forest.	
C Existing forest	
C Add a domain controller to an existing domain	
Create a new domain in an existing forest This server will become the first domain controller in the new domain.	
Create a new domain in a new forest	
More about possible deployment configurations	
< Back Next >	Cancel

.**يلاتل**ا رقناو (لاثملا اذه يف **wireless.com**) ديدجلا لاجملل لماكلا DNS مسا لخدأ .10

🔄 Active Directory Domain Services Installation Wizard	×
Name the Forest Root Domain The first domain in the forest is the forest root domain. Its name is also the name of the forest.	
Type the fully qualified domain name (FQDN) of the new forest root domain.	
FQDN of the forest root domain:	_
< Back Next > Ca	incel

.**يلاتلا** قوف رقناو كب صاخلا لاجملل **ةباغلا ةفيظو ىوتسم** ددح .11

tive Directory Domain Services Install	ation Wizard	
t Forest Functional Level Select the forest functional level.		
Forest functional level:		
Windows 2000		-
Details:		
The Windows 2000 forest functional level p Services features that are available in Wind controllers running later versions of Window not be available on those domain controllers 2000 functional level.	rovides all Active Directory Domain ows 2000 Server. If you have domain s Server, some advanced features wil s while this forest is at the Windows	×
More about domain and forest functional lev	<u>'els</u>	
	Deals Nexts	C

.**يلاتلا** قوف رقناو لاجملل **لاجملا ةفيظو يوتسم** ددح .12

At Domain Functional Level Image: Comparison of the provided and the provided a	t Domain Functional Level Select the domain functional level. Domain functional level: Windows 2000 Native Details: Details: In the following features are available at the Windows 2000 Native domain functional level: • universal groups • group nesting • group type conversion • SID history If you have domain controllers running later versions of Windows Server, some advanced features will not be available on those domain controllers while the More about domain and forest functional levels	ive Direc	tory Domain Servic	es Installa	ation Wizard		
Domain functional level: Windows 2000 Native Details: The following features are available at the Windows 2000 Native domain functional level: universal groups group nesting group type conversion SID history 	Domain functional level: Windows 2000 Native Details: The following features are available at the Windows 2000 Native domain functional level: universal groups group nesting group type conversion SID history If you have domain controllers running later versions of Windows Server, some advanced features will not be available on those domain controllers while the More about domain and forest functional levels	Domair Select th	• Functional Level e domain functional leve	el.			
Windows 2000 Native Details: The following features are available at the Windows 2000 Native domain functional ▲ level: - universal groups - group nesting - group type conversion - SID history	Windows 2000 Native Details: The following features are available at the Windows 2000 Native domain functional level: - universal groups - group nesting - group type conversion - SID history If you have domain controllers running later versions of Windows Server, some advanced features will not be available on those domain controllers while the V More about domain and forest functional levels	Domain f	unctional level:				
Details: The following features are available at the Windows 2000 Native domain functional level: universal groups group nesting group type conversion SID history	Details: The following features are available at the Windows 2000 Native domain functional level: universal groups group nesting group type conversion SID history If you have domain controllers running later versions of Windows Server, some advanced features will not be available on those domain controllers while the Wore about domain and forest functional levels	Window	vs 2000 Native				-
The following features are available at the Windows 2000 Native domain functional level: universal groups group nesting group type conversion SID history	The following features are available at the Windows 2000 Native domain functional level: universal groups group nesting group type conversion SID history If you have domain controllers running later versions of Windows Server, some advanced features will not be available on those domain controllers while the	Details:					
If you have domain controllers running later versions of Windows Server, some advanced features will not be available on those domain controllers while the	More about <u>domain and forest functional levels</u>	The follo level: - - - - If you ha advance	wing features are availa universal groups group nesting group type conversion SID history we domain controllers ru ed features will not be av	ble at the V Inning later Vailable on t	vindows 2000 N versions of Wind hose domain col	ative domain fun dows Server, son ntrollers while the	ne e
	More about <u>domain and forest functional levels</u>	More abr	out domain and forest fu	notional lou	olo		
More about domain and forest functional levels		MOLE ADI	uc <u>uomain anu torest tu</u>	nctionariev	<u>C15</u>		
More about <u>domain and forest functional levels</u>							
More about <u>domain and forest functional levels</u>							
More about <u>domain and forest functional levels</u>							

.**يلاتلا** قوف رقناو **DNS مداخ** رايتخالاا ةناخ ددح .

	-
dditional Domain Controller Options	
Select additional options for this domain controller.	
DNS server	
🔽 Global catalog	
Read-only domain controller (RODC)	
Additional information:	
We recommend that you install the DNS Server service on the first dom controller.	ain
We recommend that you install the DNS Server service on the first dom controller. More about <u>additional domain controller options</u>	ain
We recommend that you install the DNS Server service on the first domain controller.	ain 💌
We recommend that you install the DNS Server service on the first domain controller. More about <u>additional domain controller options</u>	ain

14. لايم تامدخ تيبثت جلاعمل قثبنملا راطإلا رەظي امدنع **معن** قوف رقنا لاجملل DNS يف ةديدج ةقطنم ءاشنإل.

🔄 Active	Directory Domain Services Installation Wizard	\times
	A delegation for this DNS server cannot be created because the authoritative parent zone cannot be found or it does not run Windows DNS server. If you are integrating with an existing DNS infrastructure, you should manually create a delegation to this DNS server in the parent zone to ensure reliable name resolution from outside the domain wireless.com. Otherwise, no action is required. Do you want to continue?	
	Yes No	ו

.**يلاتلا** رقناو تافلملل نالعإلا اهمدختسي نأ ديرت يتلا تادلجملا ددح .15

tive Directory Domain Services Installation Wizard	
cation for Database, Log Files, and SYSVOL Specify the folders that will contain the Active Directory domain controlle database, log files, and SYSVOL.	er
For better performance and recoverability, store the database and log fil volumes.	les on separate
Database folder:	
D:\Windows\NTDS	Browse
Log files folder:	
C:\Windows\NTDS	Browse
SYSVOL folder:	
C:\Windows\SYSVOL	Browse
More about <u>placing Active Directory Domain Services files</u>	
< Back Next >	Cancel

.**يلاتلا** ىلع رقناو لوؤسملا رورم ةملك لخدأ .16

a Active Directory Domain Services Installation Wizard	×
Directory Services Restore Mode Administrator Password	
The Directory Services Restore Mode Administrator account is different from the o Administrator account.	lomain
Assign a password for the Administrator account that will be used when this doma controller is started in Directory Services Restore Mode. We recommend that you choose a strong password.	in
Password:	
Confirm password:	
More about Directory Services Restore Mode password	
< Back Next >	Cancel

.**يلاتلا** قوف رقناو تاديدحتلا عجار .17

nmary			
Review your selections: Configure this server as the first Active Direc	ctory domain contro	ller in a new fore:	st. 🔺
The new domain name is wireless.com. This	s is also the name o	f the new forest.	
The NetBIOS name of the domain is WIREL	ESS		
Forest Functional Level: Windows 2000			
Domain Functional Level: Windows 2000 N	ative		
Site: Default-First-Site-Name			
Additional Options:			•
To change an option, click Back. To begin	the operation, click	Next.	_
These settings can be exported to an answe other unattended operations. More about <u>using an answer file</u>	er file for use with	Export settir	ngs

.تيبثتلا ةيلمع يضمت

.جلاعملا قالغإل **ءاەناٍ** قوف رقنا .18



لوعفملا ةذفان تارييغتلا حبصت يكل مداخلا ليغشت ةداعإب مق .19

🔄 Activ	e Directory Domain Sei	vices Installation Wizard	×
You must restart your computer before the changes made by the Active Directory Domain Services Installation wizard take effect.			
	Restart Now	Do not Restart Now	

CA مداخك ەنيوكتو 2008 رادصإلI Microsoft Windows مداخ تيبثت

ىلع ةدوجوملا ةداەشلا ىلع ءانب RADIUS مداخ نم ققحتلاب EAP-MS-CHAP v2 موقي لبق نم ەب قوثوم ماع قدصم عجرم نم مداخلا ةداەش رادصإ بجي ،كلذ ىلإ ةفاضإلاب .مداخلا عجرملا دلجم يف لعفلاب ةدوجوم ةماعلا قدصملا عجرملا قداەش نأ يأ .ليمعلا رتويبمك ليمعلا رتويبمكلا تاداەش نزخم يف دوجوملا ەب قوثوملا رذجلا قدصملا أةداهشلا ردصي نأ CA لدان 2008 ةغيص Microsoft Windows تلكش steps in order to اذه تمتأ يلإ NPS:

. **راودا ةفاضإ** < راودا < **مداخلا ريدم** < أدبا ىلإ لقتنا.

Server Manager (WINIX6)	Server Manager (WIN2K0)	
Image: State of the state o	Get an overview of the status of this server, perform top management t	asks, and add or remove server roles and features.
	Server Summary	
	Computer Information	
	Pull Computer Name:	win2h8.wireless.com
	Domain:	wireless.com
	Local Area Connection:	10.104.208.96
	Renote Desktop:	Enabled
	Server Manager Remote Management:	Disabled
	Product 30:	00406-001-0001076-04117 (Activated)
	Do not show me this console at logon	
	⊗ Security Information	
	Windows Frewal:	Domain: On
	Windows Updates:	Instal updates automatically using a managed updating service
	Last checked for updates:	Vesterday at 5:39 PM
	Last installed updates:	Today at 3:00 AM
	IE Enhanzed Security Configuration (ESC):	On for Administrators On for Users



2. (**يلاتلا) Next (يلاتل**ا).

Add Roles Wizard	×
Before You Begin	
Before You Begin Server Roles Confirmation Progress Results	This wizard helps you install roles on this server. You determine which roles to install based on the tasks you want this server to perform, such as sharing documents or hosting a Web site. Before you continue, verify that: • The Administrator account has a strong password • Network settings, such as static IP addresses, are configured • The latest security updates from Windows Update are installed If you have to complete any of the preceding steps, cancel the wizard, complete the steps, and then run the wizard again. To continue, click Next. Skip this page by default
	< Previous Next > Install Cancel

3. ي**لاتال** قوف رقناو Active Directory Certificate Services رايتخال اقناخ ددح.

Add Roles Wizard Select Server Ro	les	×
Before You Begin Server Roles AD CS Role Services Setup Type CA Type Private Key Cryptography CA Name Validity Period Certificate Database Confirmation Progress Results	Select one or more roles to install on this server. Roles: Active Directory Certificate Services Active Directory Domain Services (Installed) Active Directory Federation Services Active Directory Federation Services Active Directory Federation Services Active Directory Rights Management Services Application Server DHCP Server (Installed) DNS Server (Installed) Fax Server File Services UDDI Services UDDI Services Web Server (IIS) Windows Deployment Services Windows Server Update Services	Description: Active Directory Certificate Services (AD CS) is used to create certification authorities and related role services that allow you to issue and manage certificates used in a variety of applications.

.**يلاتلا** قوف رقناو Active Directory تاداهش تامدخ ةمدقم عجار .4

Add Roles Wizard		
Introduction to Active Directory Certificate Services		
Before You Begin Server Roles AD CS Role Services Setup Type CA Type Private Key Cryptography CA Name Validity Period Certificate Database Confirmation Progress Results	 Active Directory Certificate Services (AD CS) Active Directory Certificate Services (AD CS) provides the certificate infrastructure to enable scenarios such as secure wireless networks, virtual private networks, Internet Protocol Security (IPSec), Network Access Protection (NAP), encrypting file system (EFS) and smart card logon. Things to Note The name and domain settings of this computer cannot be changed after a certificate authority (CA) has been installed. If you want to change the computer name, join a domain, or promote this server to a domain controller, complete these changes before installing the CA. For more information, see certification authority naming. Additional Information Active Directory Certificate Services Overview Managing a Certification Authority Certification Authority Naming 	
	< Previous Next > Instel Cancel	

. **يلاتلا** رقناو **قدصملا عجرملا** رايتخالاا ةناخ ددح.

Add Roles Wizard		×
Select Role Servi	ces	
Before You Begin Server Roles AD CS Role Services Setup Type CA Type Private Key Cryptography CA Name Validity Period Certificate Database Confirmation Progress Results	Select the role services to install for Active Directory Certificate Servi Role services: Certification Authority Certification Authority Web Enrolment Online Responder Network Device Enrolment Service	ces: Description: <u>Certification Authority (CA)</u> is used to issue and manage certificates. Multiple CAs can be linked to form a public key infrastructure.
	< Previous Next :	> Instal Cancel

.**كلذ دعب** تقطقطو رز يكلسال **Enterprise** تقطقط .6

Add Roles Wizard		
Specify Setup Ty	ре	
Before You Begin Server Roles AD CS Role Services Setup Type CA Type Private Key Cryptography CA Name Validity Period Certificate Database Confirmation Progress Results	 Certification Authorities can use data in Active Directory to simplify the issuance and management of certificates. Specify whether you want to set up an Enterprise or Standalone CA. C Enterprise Select this option if this CA is a member of a domain and can use Directory Service to issue and manage certificates. C Standalone Select this option if this CA does not use Directory Service data to issue or manage certificates. A standalone CA can be a member of a domain. 	
	More about the differences between enterprise and standalone setup	
	< Previous Next > Install Cancel	

.**كلذ دعب** تقطقطو رز يكلسال **ca رذجلا** تقطقط .7

Add Roles Wizard		
Specify CA Type		
Before You Begin Server Roles AD CS Role Services Setup Type CA Type Private Key Cryptography CA Name Validity Period Certificate Database Confirmation Progress Results	A combination of root and subordinate CAs can be configured to create a hierarchical public key infrastructure (PKI). A root CA is a CA that issues its own self-signed certificate. A subordinate CA receives its certificate from another CA. Specify whether you want to set up a root or subordinate CA.	
	More about public key infrastructure (PKI) < Previous Next > Instal Cancel	

8. **يلاتلا** ىلع رقناو **ديدج صاخ حاتفم** ويدار **ءاشنا** رز ىلع رقنا.



.ةذفان **CA ل ريفشت لكشي** يف **كلذ دعب** تقطقط .9

Add Roles Wizard	×
Configure Cryptography for CA	
Before You Begin Server Roles AD CS Role Services Setup Type CA Type Private Key Cryptography CA Name Validity Period Certificate Database Confirmation Progress Results	To create a new private key, you must first select a cryptographic service provider, hash akorithm, and key length that are appropriate for the intended use of the certificates that you issue. Selecting a higher you be complete signing certificates that you issue. Selecting a higher that are appropriate for the intended use of the certificates that you issue. Selecting a higher that are appropriate for the intended use of the certificates that you issue. Selecting a higher that are appropriate for the intended use of the certificates that you issue. Selecting a higher that are appropriate for the intended use of the certificates that you issue. Selecting a higher that are appropriate for the private intended use of the certificates issued by the CR. Select the hash algorithm for signing certificates issued by the CR. Image: Ima
	< Previous Next > Install Cancel

.مسإ ريصقت **CA اذہ ل مسإ عئاش لا**ا تلبق in order to **كلذ دعب** تقطقط .10
Add Roles Wizard	×
Configure CA Nat	ne
Before You Begin Server Roles AD CS Role Services Setup Type CA Type Private Key Cryptography CA Name Validity Period Certificate Database Confirmation Progress	Type in a common name to identify this CA. This name is added to all certificates issued by the CA. Distinguished name suffix values are automatically generated but can be modified. Common name for this CA: wireless-WIN-MVZ9Z2UMNM5-CA Distinguished name suffix: DC=wireless,DC=com Preview of distinguished name: CN=wireless-WIN-MVZ9Z2UMNM5-CA,DC=wireless,DC=com
Results	More about configuring a CA name Previous Next > Instal Cancel

.**يلاتلا** قوف رقناو ةحلاص CA ةداەش ەيف نوكت يذلا تقولاا لوط ددح .11

Add Roles Wizard	×
Set Validity Perio	od
Before You Begin Server Roles AD CS Role Services Setup Type CA Type Private Key Cryptography CA Name Validity Period Certificate Database Confirmation Progress Results	A certificate will be issued to this CA to secure communications with other CAs and with clients requesting certificates. The validity period of a CA certificate can be based on a number of factors, including the intended purpose of the CA and security measures that you have taken to secure the CA. Select validity period for the certificate generated for this CA: Select validity period for the certificate generated for this CA: Select validity period for the certificate generated for this CA: Select validity period for the certificate generated for this CA: Select validity period for the certificate generated for this CA: Select validity period for the certificate generated for this CA: Select validity period for the certificate generated for this CA: Select validity period for the certificate generated for this CA: Select validity period for the certificate generated for this CA: Select validity period for the certificate generated for this CA: Select validity period for the certificate generated for this CA: Select validity period for the certificate generated for this CA: Select validity period for the certificate generated for this CA: Select validity period for the certificates valid only until its expiration date.
	More about setting the certificate validity period
	< Previous Next > Instal Cancel

.عقوم ريصقت **عقوم تايطعم ةدعاق صيخرتلا** تلبق in order to **كلذ دعب** تقطقط .12

Add Roles Wizard		×
Configure Certifi	cate Database	
Before You Begin Server Roles AD CS Role Services Setup Type	The certificate database records all certificate requests, issued certificates, and revoked or expirient certificates. The database log can be used to monitor management activity for a CA. Certificate database location: C:\Windows\system32\CertLog Use existing certificate database from previous installation at this location	red Browse
CA Type Private Key	Certificate database log location: C:\Windows\system32\CertLog	Browse
Cryptography CA Name Validity Deviced		
Certificate Database		
Confirmation		
Progress		
Results		
	< Previous Next > Install	Cancel

13. **تاداەش تامدخ** ءدبال **تېبثت** قوف رقناو نيوكتالا عجار



."**قالغإ** قوف رقنا ،تيبثتلا لامتكا دعب.

Microsoft Windows Version 2008 مداخ ىلع NPS مداخ ك

مداخك NPS مدختسي ،مسقلا اذه يف حضوملا دادعإلا مادختساب :**قظحالم** RADIUS مداخك NPS مدختسي ، مسقلا اذه يف حضومل المعلي المعلي المعالي معالي المعالي المعالي معالي معالي معالي المعالي معالي المعالي معالي المعالي م

اذه تمتأ steps in order to لا تلكشو تبكر NPS اذه تمتأ لدان:

. **راودا ةفاضإ** < راودا < **مداخلا ريدم** < أ**دبا** ىلإ لقتنا.

Server Manager (WIN2K8)	Server Manager (WIN2K0)				
at portenines Transferences Trans	Get an overview of the status of this server, perform top nanagement tasks, and add or remove server roles and features.				
	Server Summary				
	Computer Information				
	Full Computer Name:	win2h8.wireless.com			
	Domain:	wireless.com			
	Local Area Connection:	10.104.208.96			
	Remote Desktop:	Enabled			
	Server Manager Remote Management:	Disabled			
	Product ID:	00406-001-0001076-04117 (Activated)			
	Do not show me this console at logon				
	Security Information				
	Windows Frewal:	Domain: On			
	Windows Updates:	Instal updates autometically using a managed updating service			
	Last checked for updates:	Vesterday at 5:09 PM			
	Last installed updates:	Today at 3:00 AM			
	IE Enhanced Security Configuration (ESC):	On for Administrators On for Users			



2. (**يلاتلا) Next (يلاتا**).

Add Roles Wizard	×
Before You Begin	
Before You Begin Server Roles Confirmation Progress Results	This wizard helps you install roles on this server. You determine which roles to install based on the tasks you want this server to perform, such as sharing documents or hosting a Web site. Before you continue, verify that: • The Administrator account has a strong password • Network settings, such as static IP addresses, are configured • The latest security updates from Windows Update are installed If you have to complete any of the preceding steps, cancel the wizard, complete the steps, and then run the wizard again. To continue, click Next. • Skip this page by default
	<previous next=""> Install Cancel</previous>

3. رايتخالاا ةناخ ددح Network Policy and Access Services رايتخالاا ةناخ ددح) المد**خو ةكبشلا ةسايس)** Network Policy and Access Services قوف رقناو Next.

Add Roles Wizard		×
Select Server Ro	les	
Before You Begin Server Roles Network Policy and Access Services Role Services Confirmation Progress Results	Select one or more roles to install on this server. Roles: Active Directory Certificate Services (Installed) Active Directory Federation Services Active Directory Federation Services Active Directory Lightweight Directory Services Active Directory Rights Management Services Active Directory Rights Management Services Active Directory Rights Management Services Application Server DHCP Server (Installed) Fax Server File Services Vetwork Policy and Access Services Print Services UDDI Services Web Server (IIS) Windows Deployment Services Windows Server Update Services	Description: Network Policy and Access Services provides Network Policy Server (NPS), Routing and Remote Access, Health Registration Authority (HRA), and Host Credential Authorization Protocol (HCAP), which help safeguard the health and security of your network.
	< Previous	Vext > Instel Cancel

.**يلاتلا** قوف رقناو **لوصولا تامدخو ةكبشلا ةسايس ةمدقم** عجار .4

- Iter	
Network Policy a	nd Access Services
Before You Begin Server Roles Network Policy and Access Services Role Services Confirmation Progress Results	 Introduction to Network Policy and Access Services Metwork Policy and Access Services allows you to provide local and remote network access and to define and enforce policies for network access Service, Health Registration Authority (HRA), and Host Credential Authorization Protocol (HCAP). Things to Note You can deploy NPS as a Remote Authentication Dial-In User Service (RADIUS) server and proxy and as a Network Access Protection (NAP) policy server. After installing NPS using this wizard, you can configure NPS from the NPAS home page using the NPS console. NAP helps you ensure that computers connecting to the network are compliant with organization network and client health policies. After installing NPS using this wizard, you can configure NPAS home page using the NPS console. Additional Information Overview of Network Policy and Access Services NAP enforcement methods Network Access Protection (NAP) in NPS Network Policy Server

5. ي**يلاتلا** قوف رقناو **Network Policy Server** رايتخالاا ةناخ نم ققحت.

Add Roles Wizard		×
Select Role Servi	ces	
Before You Begin Server Roles Network Policy and Access Services Confirmation Progress Results	Select the role services to install for Network Policy and Access Services Network Policy Server Routing and Remote Access Service Routing Health Registration Authority Host Credential Authorization Protocol	vices: Description: Network Policy Server (NPS) allows you to create and enforce organization-wide network access policies for client health, connection request authenication, and connection request authorization. With NPS, you can also deploy Network Access Protection (NAP), a client health policy creation, enforcement, and remediation technology.
	< Previous Nex	t > Instal Cancel

.**تيبثت** قوف رقناو ديكأتلا عجار .6

Add Roles Wizard	×
Confirm Installat	ion Selections
Before You Begin Server Roles Network Policy and Access Services Role Services Confirmation Progress Results	To install the following roles, role services, or features, click Install. 1 informational message below This server might need to be restarted after the installation completes. Network Policy and Access Services Network Policy Server
	Print, e-mail, or save this information
	< Previous Next > Install Cancel

ةلثامم ةشاش رەظت نأ بجي ،تيبثتلا لامتكا دعب:



."**قالغإ**" قوف رقنا .7

ةداەش تيبثت

NPS: ل ةداهش رتويبموكلا تبكر steps in order to اذه تمتأ

- . **Enter** حاتفم ىلع طغضا مث ،Microsoft نم (MMC) ةرادإلا مكحت ةدحو لخدأو ،**ءدب** قوف رقنا .1
- .**ةيفاضإلاا ةادألاا ةلازإ/ةفاضإ<فلم** ىلإ لقتنا. 2
- .**ةفاضإ** رقناو **صيخارت** رتخأ .3

nap-in	Vendor			Console Root	Edit Extensions
Active Directory Do	Microsoft Cor				
Active Directory Site	Microsoft Cor				Remove
Active Directory Use	Microsoft Cor				
ActiveX Control	Microsoft Cor				Move (In
ADSI Edit	Microsoft Cor				
Authorization Manager	Microsoft Cor				Move Down
Certificate Templates	Microsoft Cor	A	dd >		
Certificates	Microsoft Cor				
Certification Authority	Microsoft Cor				
Component Services	Microsoft Cor				
Computer Managem	Microsoft Cor				
Device Manager	Microsoft Cor				
2онср	Microsoft Cor	_			
Disk Management	Microsoft and	-			Advanced
actions.					
scription:					

4. كلذ دعب تقطقطو رز يكلسال باسح Computer تقطقط.

Certificates snap-in			×
This snap-in will always manage certificates for:			
My user account			
Service account			
Computer account			
	< Back	lext > Ca	ncel

. **زاجنا**ِ ةقطقطو يكلسال زاهج **يلحملا** تقطقط .5

Select Computer	×
Select the computer you want this snap-in to manage.	
This snap-in will always manage:	
 Local computer: (the computer this console is running on) 	
C Another computer: Browse	
Allow the selected computer to be changed when launching from the command line. This only applies if you save the console.	
< Back Finish Cancel	

6. اىل تعجر **ok** in order to لا ىل



.تاداەشلا رقناو ،**ةيصخشلا** تادلجملاو **(يلحملا رتويبمكلا) تاداەشلا** عيسوتب مق .7

🙀 Console1 - [Console Root\Certificates (Local Computer)\Personal\Certificates]					_ 🗆 🗙		
🚡 File Action View Favorites 🖞	Window Help						_8×
(n n n 🖄 💼 🖄 🖬	2 🖬						
Console Root	Issued To +	Issued By	Expiration Date	Intended Purposes	Friendly Name	Actions	
Certificates (Local Computer) Personal	Wireless-WIN-MV2922UMMMS-CA	wireless-WIN-MV2922UMNM5-CA	2/9/2018	<ai></ai>	<none></none>	Certificates	-
Persona P						More Actions	•
						I	
Personal store contains 1 certificate.							

< **ماەملا لك** رتخاو ،CA صيخرت يف ءاضيبلا ةفاسملا ىلع نميألا سواملا رزب رقنا .8 .**ةديدج ةداەش بلط**

🧱 Console 1 - [Console Root\Certifi	cates (Local Computer)\Personal\C	ertificates]					_ O X
Se File Action View Favorites	Window Help						_8×
♦ 2 1 0 0 0	2 💼						
Console Root	Issued To 🔺	Issued By	Expiration Date	Intended Purposes	Friendly Name	Actions	
Certificates (Local Computer) Everypel	Giveless-WIN-MV2922UMNMS-CA	wireless-WIN-MV2922UMNM5-0	A 2/9/2018	<al></al>	<none></none>	Certificates	*
Certificates Certificates Trusted Root Certification Au Criteringias Truck Trusted Publishers Unit Unit Vent Vent Certification Trusted Publishers Criteringias Certification Trusted Postop Smart Card Trusted Roots		Al Tasks Refresh Export List Wew Arrange Icons Line up Icons Help	Request New Certificate Import Advanced Operations	•		More Actions	
< P	 •				•		
Contains actions that can be performed or	n the item.						

9. (**يلاتانا) Next ق**وف رقنا.

Certificate Enrollment 📃 🔲 🗙
Certificate Enrollment
Before You Begin
The following steps will help you install certificates, which are digital credentials used to connect to wireless networks, protect content, establish identity, and do other security-related tasks.
Before requesting a certificate, verify the following:
Your computer is connected to the network You are logged onto the domain for your organization
Learn more about <u>digital certificates</u>
Next Cancel

.ل**يجست** قوف رقنا مث ،**لاجملاب مكحتلا ةدحو** رايتخالا ةناخ قوف رقنا .10

عيمج نأ نم دكأتف ،EAP ةداهش يف أطخ ببسب ليمعلاا ةقداصم تلشف اذإ :**ةظحالم** ليجست قوف رقنلا لبق هذه **ةداهشلا ليجست** ةحفص يف ةددحم رايتخالاا تاناخ. تاداهش ةثالث يلاوح كلذ ئشني.

ertificate Enrollment		
ertificate Enrollment		
Request Certificates		
You can request the following types of certifica	ates. Select the certificates you want to reque	est, and then click Enroll.
C Divertery Freeil Deelisetien	Constant August 1	
	STATUS: Available	Details
Domain Controller	③ STATUS: Available	Details 🛞
Domain Controller Authentication	🗼 STATUS: Available	Details®
Show all templates		
Learn more about <u>certificate types</u>		
		Front Consul

.ةداەشلا تيبثت درجمب **ءاەنا** ىلع رقنا .11

🧓 Certificate Enrollment		
🙀 Certificate Enrollment		
Certificate Installation Results		
The following certificates have been enr	olled and installed on this computer.	
Domain Controller	STATUS: Succeeded	Details 🛞
		Finish

"ةدوصقملا ضارغألا" دومع يف **مداخلا ةقداصمو ليمعلا ةقداصم** روهظ نم دكأت .12 ةداەشلل.

🚰 Console 1 - [Console Root\Certificates (Local Computer)\Personal\Certificates]						
🚰 File Action View Favorites Window	Help					
🗢 🔿 🔟 🛅 🤞 🖌 🖻 😹 📔	2 📅					
Console Root	Issued To 🔺	Issued By	Expiration Date	Intended Purposes	Frier	
😑 🙀 Certificates (Local Computer)	🔄 win2k8.wireless.com	wireless-WIN2K8-CA	4/19/2015	Client Authentication, Server Aut	<no< td=""></no<>	
🖃 🧰 Personal	🕼 win2k8.wireless.com	wireless-WIN2K8-CA	4/19/2015	Client Authentication, Server Aut	<no< td=""></no<>	
Certificates	🛱 win2k8.wireless.com	wireless-WIN2K8-CA	4/19/2015	Client Authentication, Server Aut	<no< td=""></no<>	
It is the second sec	😨 win2k8.wireless.com	wireless-WIN2K8-CA	4/19/2015	Directory Service Email Replication	<no< td=""></no<>	
Enterprise Trust	🕼 wireless-WINZK8-CA	wireless-WIN2K8-CA	4/19/2019	<all></all>	<no< td=""></no<>	
Intermediate Certification Authorities						
Insteel Publishers Insteel CestSeates						
E Chird Darby Doot Certification Authorit						
Trusted People						
E E Remote Deskton						
🗑 🧧 Certificate Enrolment Requests						
🗄 🧮 Smart Card Trusted Roots						
🗉 🧮 Trusted Devices						
	I					

PEAP-MS-CHAP v2 ةقداصمل ةكبشلا جەن مداخ ةمدخ نيوكت

:ةقداصملل NPS تلكش steps in order to اذه تمتأ

- .ةكبشلا جەن مداخ < ةيرادا تاودا < أدبا ىل| لقتنا.
- 2. **يف ليجستال مداخ** رتخاو **(يالحم) NPS ق**وف نميألا سوامال رزب رقنا.



.OK قوف رقناو .3



OK. قوف رقناو .4

Network Policy Server	×
This computer is now authorized to read users' dial-in properties from domain wireless.com. To authorize this computer to read users' dial-in properties from other domains, you must register this computer to be a member of the RAS/NPS Servers Group in that domain.	
OK	

- ةقداصملا ليمعك (WLC) ةيكلساللا ةيلحملا ةكبشلا يف مكحتلا رصنع ةفاضإ .5 يلع (AAA) ةبساحملاو ضيوفتلاو NPS.
- رتخاو RADIUS **ءالمع** قوف نميألا سواملا رزب رقنا .**مداوخو RADIUS ءالمع** عيسوتب مق .6 د**يدجلا RADIUS ليمع**

File Action View Help Image: Policies Image: Policies Image: Policies Image: Policies Image: Policies Image: Policies Image: Policies Image: Policies Image: Policies Image: Policies Image: Policies Image: Policies Image: Policies Image: Policies Image: Policis Image: Policies <t< th=""></t<>
Image: Second
ADJUS Clients and Servers ADJUS Clients Remot New RADJUS Client Export List New RADJUS Client List New RADJUS Client
Accountine Refresh Help

7. لالاتم اذه يف WLC (**10.105.135.178) ل**ا نم ناونع ةرادإلا، (لااثم اذه يف **WLC)** مسا تلخد، كرتشم رسو.

_ Server Manager	
File Action View Help	
🗇 🔿 🗾 🖬 🛛 🖬	
Server Manager (WIN2K8) Active Directory Certificate Services Active Directory Domain Services Active Directory Domain Services Network Policy and Access Services Active Directory Certificate Services Active Directory Domain Services Active Directory Domain Services Active Directory Certificate Services Active Directory Domain Services	RADIUS Clients Settings Advanced Enable this RADIUS client Select an existing template: Settings Name and Address Friendly name: [5760-WLC Address (IP or DNS); 10.105.135.178 Verify Shared Secret Select an existing Shared Secrets template: Image: None To manually type a shared secret, click Manual, To automatically generate a shared secret, click Generate. You must configure the RADIUS client with the same shared secret entered here. Shared secrets are case-sensitive. Image: Confirm shared secret Image: Confirm shared secret Image: Confirm shared secret Image: Confirm shared secret
	OK Cancel Apply

8. ةقباسلا ةشاشلا ىلإ تعجر ok in order to ةقطقط.



رقناو ،**تاسايسلا** عيسوتب مق .نييكلساللا نيمدختسملل ديدج ةكبش جەن ءاشنإ .9 :**ديدج** رتخاو ،**ةكېشلا تاسايس** قوف نميألا سواملا رزب

🞭 Network Policy	Server	
File Action Vie	w Help	
🗢 🔿 🔁 📅	? 🖬	
NPS (Local)	nts and Servers Clients RADIUS Server G	Network policies allow you to designate who is authorized to connect to the network and the circumstances under which they can or cannot connect.
E 🗐 Policies		Policy Name Status Processing Order Access Type S
Conned	tion Request Polici	Connections to Microsoft Routing and Remote Access server Enabled 999998 Deny Access U
Network	Policies New	Connections to other access servers Enabled 999999 Deny Access U
📕 🔜 Health F	Export List	
Accounting	15.000	<u> </u>
	VIGW	
	Refresh	
	Help	Conditions - If the following conditions are met:
		Confilm Value
		Settings - Then the following settings are applied:
		Setting Value
•		
Export List		

.**يلاتلا** قوف رقناو (لاثملا اذه يف **PEAP**) ةدعاقلا هذهل جهن مسا لخدأ .10

New Network	Policy
	Specify Network Policy Name and Connection Type
	You can specify a name for your network policy and the type of connections to which the policy is applied.
Policy nam	ie:
- Network co	nnection method
Select the ty type or Vend	pe of network access server that sends the connection request to NPS. You can select either the network access server for specific.
 Type of 	network access server:
Unspec	sified 🔽
C Vendor	specific:
10	
	Previous Next Finish Cancel

طورشلا هذه فضأ ،يكلساللا لاجملا يمدختسمل طقف حامسلل جەنلا اذە نيوكتل .11 **يلاتلا** قوف رقناو ةثالثلا:



Specify Conditions

Specify the conditions that determine whether this network policy is evaluated for a connection request. A minimum of one condition is required.

Conditions:	
Condition	Value
💖 Windows Groups	WIRELESS\Domain Users
Se NAS Port Type	Wireless - IEEE 802.11
Authentication Type	EAP
Condition description:	
The Authentication Type condit	ion specifies the authentication methods required to match this policy.
	Add Edit Remove
	Previous Next Finish Cancel

جەنلا اذە قباطت يتلا لاصتالا تالواحم حنمل ويدارلل **حونمملا لوصولا** رز قوف رقنا .12 **يلاتل**ا قوف رقناو.

iew Network P	olicy
	Specify Access Permission Configure whether you want to grant network access or deny network access if the connection request matches this policy.
 Access grading of the second se	Inted si if client connection attempts match the conditions of this policy. si if client connection attempts match the conditions of this policy. determined by User Dial-in properties (which override NPS policy) ny access according to user dial-in properties if client connection attempts match the conditions of this policy.
	Previous Next Finish Cancel

ا**نامأ لقألاا ةقداصملا قرط** عيمج ليطعت .13



Configure Authentication Methods

Configure one or more authentication methods required for the connection request to match this policy. For EAP authentication, you must configure an EAP type. If you deploy NAP with 802.1X or VPN, you must configure Protected EAP in connection request policy, which overrides network policy authentication settings.

	Move Up Move Down	
Add Edit Remove ess secure authentication methods: Microsoft Encrypted Authentication version 2 (MS-CHAP-v2) User can change password after it has expired Microsoft Encrypted Authentication (MS-CHAP)		
User can change password after it has expired Encrypted authentication (CHAP)		

14. هقطقطو ،عون**(PEAP) EAP يمحم :تفوسوركيام لا** ددح ،**فيضي** ةقطقط .14 تنكم PEAP.



Configure Authentication Methods

Configure one or more authentication methods required for the connection request to match this policy. For EAP authentication, you must configure an EAP type. If you deploy NAP with 802.1X or VPN, you must configure Protected EAP in connection request policy, which overrides network policy authentication settings.

	Nected EAP (PEA	P)			Move Up Move Dow	n		
Add	Edit	Remove						
Less secure Microsoft F	authentication	i methods: fication version 2.0	AS-CHAP-v2					
User ca	in change passwo	ord after it has expi	red					
Microsoft E	ncrypted Authent	ication (MS-CHAP)					
🔲 User ca	in change passwo	ord after it has expi	red					
Encrypted	authentication (Cl	HAP)						
Unencrypt	ed authentication	(PAP, SPAP)						
Allow clien	ts to connect with	out negotiating an	authenticatio	n method.				

ددح Microsoft: EAP مكحتلا ةدحو ةداهش ديدحت نم دكأت .**ريرحت** رقناو **(PEAP) يمحم Microsoft: EAP د**دح .15 رقناو "ةرداصلا ةداهشلا" ةلدسنملا ةمئاقلا يف اقبسم اهؤاشنإ مت يتلا لاجملاب ق**فاوم** قوف.



ا. (**يلاتا) Next ق**وف رقنا.



Configure Authentication Methods

Configure one or more authentication methods required for the connection request to match this policy. For EAP authentication, you must configure an EAP type. If you deploy NAP with 802.1X or VPN, you must configure Protected EAP in connection request policy, which overrides network policy authentication settings.

Microsoft: Protected EAP (PEAP)	Move Up Move Down
Add Edit Remove Less secure authentication methods: Microsoft Encrypted Authentication version 2 (MS-CHAP-v2) User can change password after it has expired Microsoft Encrypted Authentication (MS-CHAP) User can change password after it has expired Encrypted authentication (CHAP) Encrypted authentication (CHAP)	
 Unencrypted authentication (PAP, SPAP) Allow clients to connect without negotiating an authentication Perform machine health check only 	ı method.

17. اي**لاتات Next (ايلاتات)**.

New Network P	Policy	×
	Configure Constraints Constraints are additional parameters of the network policy that are required to match the connection request. If a constraint is not matched by the connection request, NPS automatically rejects the request. Constraints are optional; if you do not want to configure constraints, click Next.	
Configure the of If all constraints: Constraints Const	constraints for this network policy. Is are not matched by the connection request, network access is denied. Specify the maximum time in minutes that the server can remain idle before the connection is disconnected Disconnect after the maximum idle time in this maximum time in minutes that the server can remain idle before the connection is disconnect after the maximum idle time in the maximum time in minutes that the server can remain idle before the connection is disconnect after the maximum idle time in the maximum time in minutes that the server can remain idle before the connection is disconnect after the maximum idle time in the maximum time in minutes that the server can remain idle before the connection is disconnect after the maximum idle time in the maximum time in minutes that the server can remain idle before the connection is disconnect after the maximum idle time is disconnect after the	_
	Previous Next Finish Cancel	

ا العامي (العام العامي العام العام العام العام العام العام (العام 18. العام العام العام 18. العام 18. العام 18.



Configure Settings

NPS applies settings to the connection request if all of the network policy conditions and constraints for the policy are matched.

Configure the settings for this network policy. If conditions and constraints match the connection request and the policy grants access, settings are applied.

Settings:		
RADIUS Attributes	To send additional at	tributes to BADILIS clients, select a BADILIS standard attribute, and
🎭 Standard	then click Edit. If you	do not configure an attribute, it is not sent to RADIUS clients. See
Vendor Specific	your HADIUS client o	occumentation for required attributes,
Network Access Protection		
NAP Enforcement	Attributes:	
🕎 Extended State	Name Framed Protocol	PPP
Routing and Remote Access	Service-Type	Framed
Multilink and Bandwidth Allocation Protocol (BAP)		
Recryption	Add	Edit Remove
🗾 IP Settings 👻		
		Previous Next Finish Cancel

.**ءاەنإ** قوف رقنا .19

w Network Policy	×
Completing Ne	ew Network Policy
You have successfully created the follow	ving network policy:
Wireless PEAP	
Policy conditions:	
Condition Value	
Windows Groups WIRELESS \Dom	nain Users
NAS Port Type Wireless - IEEE 8	02.11
Authentication Type EAP	
Policy settings:	
Condition	Value
Authentication Method	EAP
Access Permission	Grant Access
Update Noncompliant Clients	True
NAP Enforcement	Allow full network access
Framed-Protocol	PPP
Service-Type	Framed
	-
Lo close this wizerd, click Finish	
TO CIOSE UNIS WIZERU, CIICK FILIISTI.	
I O CIUSE UNS WIZERO, CIICK PHINSIL	
I O CIOSE (TIIS YNZOID, CIICK FILIISIT.	
TO CIOSE (THIS WIZERIC, CHER THIRST.	
O CIOSE UNIS VIEZZIO, CIICK THINST.	Previous Next Finish Cancel

حامسلل NPS ىلع **لاصتالا بلط جەن** نيوكت ىلإ ،كتاجايتحال اعبت ،جاتحت دق :**قظحال م** جەنلا وأ PEAP فيرعت فلمب.

Active Directory ىل| نيمدختسم ةفاض|

نالعإلا الالع مدختسملا تانايب ةدعاقب ظافتحالا متي ،لاثملا اذه يف :**قظحالم** .

AD: تايطعم ةدعاقلا ىلإ لمعتسم تفضأ steps in order to اذه تمتأ

- 1. القتنا Start > Administrative Tools > Active Directory Users and Computers.
- لاجملا عيسوتب مق ،رتويبمكلا ةزهجأو Active Directory يمدختسم مكحت ةدحو ةرجش يف .2 .**مدختسمل**ا رتخاو ،**ديدجل**او **نيمدختسمل**ا قوف نميألا سواملا رزب رقناو.
- لاثملا اذه مدختسي .يكلساللا مدختسملا مسا لخدأ ،مدختسم ديدج نﺉك ةشاش يف .3 رقنا .مدختسملا لوخد ليجست مسا لقح يف Client1و "لوألا مسالا" لقح يف Next (يلاتكا). قوف

New Object - User 🛛 🔀
Create in: wireless.com/
First name: Initials: N
Last name:
Full name: user1 N.
User logon name:
user1 @wireless.com
User logon name (pre-Windows 2000):
WIRELESS\ user1
< Back Next > Cancel

ةملك لوقح يف كرايتخإ نم رورم ةملك لاخداب مق ،مدختسم - ديدج نﺉاك ةشاش يف .4 **يف رورملا ةملك رييغت مدختسملا ىلع بجي** ديدحت ءاغلإ .رورملا ةملك ديكأتو رورملا ي**يلاتل**ا قوف رقناو **لوخدلا ليجستل يلاتل**ا رايتخالا ةناخ.

New Object - User	×
Create in: wireless.com/	
Password:	
Confirm password:	J
User must change password at next logon	
User cannot change password	
Password never expires	
Account is disabled	
< Back Next > 0	Cancel

.**ءاەن|** رقنا ،مدختسم - ديدج نﺉاك ةﺷﺎﺵ ﻱﻑ .

# Object - User		×
Create in: wireless.c	:om/	
When you click Finish, the followi	ng object will be created:	
Full name: user1 N.		<u> </u>
User logon name: user1@wireles	s.com	
		=1
1		
		Consult of
	< Back Finish	Cancel

6. ةيفاضإ نيمدختسم تاباسح ءاشنإل 4 ىلإ 2 نم تاوطخلا ررك.

ةحصلا نم ققحتلا

:كليكشت تققد steps in order to اذه تمتأ

اليمعلا زاهج ىلع (SSID) ةمدخلا ةعومجم فرعم نع ثحبا .1.

Currently connected to:	47	Â
Network 3 Internet access		
Wireless Network Connection	^	
Microsoft_NPS	all	
Connec	t	
MotoTest	all	
Dot1x	all	
WPA2-PSK	all	
dwlhhcatalog	all	
tac-test	all	
iPhone	at	Ŧ
Open Network and Sharing Cente	r	

:حاجنب ليمعلا لاصتا نم دكأت .2

Currently connected to:	47	-
Network 3 Internet access		ш
Microsoft_NPS No Internet access		
Wireless Network Connection	^	
Microsoft_NPS Connected	.ul	
MotoTest	.ul	
Dot1x	.ul	
WPA2-PSK	.ul	
lab-test	.ul	
dwlhhcatalog	.ul	
	al	Ŧ
Open Network and Sharing Cen	ter	

اهحالصإو ءاطخألا فاشكتسا

متي .اهحالصإو يكلساللا ءاطخاً فاشكتسال عبتتلا مادختساب Cisco يصوت :**قظحالم** جلاعملا ىلع ةزكرم تسيل يهو يرىادلا تقؤملا نزخملا يف تاراسملا ظفح.

:**لجس ةقداصم L2** لاا تلن in order to رثأ اذه تنكم

نمآلا يكلساللا لاصتالا - عبتتلا ةعومجم ىوتسم ءاطخأ حيحصت نييعت •

• set trace group-wireless-secure filter mac 0017.7c2f.b69a

:**ثداح dot1X AAA** لا تلن in order to رثأ اذه تنكم:

• set trace wcm-dot1x aaa دوتسم debug

• set trace wcm-dot1x aaa حشرم mac 0017.7c2f.b69a

:**ئداح DHCP** لا تملتسإ in order to رثأ اذہ تنكم:

DHCP ثادحأ ىوتسم ءاطخأ حيحصت طبض •

• set trace dhcp حشرم ثداح mac 0017.7c2f.b69a

:تقۇملا نزخملا حسمو عبتتلا تزجعأ in order to رثأ اذه تنكم

- حضاو عبتت اەتيفصت تمت يتلا ماظنلا يف مكحتلا رصانع عبتت نييعت •
- ريصقت ىوتسم wcm-dot1x aaa عبتت طبض •
- الب WCM-dot1x aaa ةيفصت لماع نييعت •
• عبتتال ةعومجمل نمآلا يكلساللا يوتسملل ةيضارتفالا ةميقالا نييعت • عيش الب نمآلا يكلساللا عبتتال ةعومجم ةيفصت لماع نييعت

: تاراسملا ضرعل show trace sys-filtered-trace رمألا لخدأ

[04/23/14 21:27:51.963 IST 1 8151] 0017.7c2f.b69a Adding mobile on LWAPP AP 1caa.076f.9e10 (0) [04/23/14 21:27:51.963 IST 2 8151] 0017.7c2f.b69a Local Policy: Created MSCB Just AccessVLAN = 0 and SessionTimeout is 0 and apfMsTimeout is 0 [04/23/14 21:27:51.963 IST 8 8151] 0017.7c2f.b69a Local Policy:Setting local bridging VLAN name VLAN0020 and VLAN ID 20 [04/23/14 21:27:51.963 IST 9 8151] 0017.7c2f.b69a Applying WLAN ACL policies to client [04/23/14 21:27:51.963 IST a 8151] 0017.7c2f.b69a No Interface ACL used for Wireless client in WCM(NGWC) [04/23/14 21:27:51.963 IST b 8151] 0017.7c2f.b69a Applying site-specific IPv6 override for station 0017.7c2f.b69a - vapId 8, site 'test', interface 'VLAN0020' [04/23/14 21:27:51.963 IST c 8151] 0017.7c2f.b69a Applying local bridging Interface Policy for station 0017.7c2f.b69a - vlan 20, interface 'VLAN0020' [04/23/14 21:27:51.963 IST d 8151] 0017.7c2f.b69a **** Inside applyLocalProfilingPolicyAction **** 04/23/14 21:27:51.963 IST f 8151] 0017.7c2f.b69a Local Profiling Values : isValidVlan = 0, vlan = 0, isVlanRecdInDelete = 0, isValidSessionTimeout = 0, sessionTimeout=0, isSessionTORecdInDelete = 0 ProtocolMap = 0 ,

applyPolicyAtRun= 0 [04/23/14 21:27:51.963 IST 10 8151] 0017.7c2f.b69a ipv4ACL = [], ipv6ACL = [], inQoS = [unknown], outQoS = [unknown] [04/23/14 21:27:51.963 IST 11 8151] 0017.7c2f.b69a STA - rates (4): 130 132 139 150 0 0 0 0 0 0 0 0 0 0 0 0 0 [04/23/14 21:27:51.963 IST 12 8151] 0017.7c2f.b69a STA - rates (12): 130 132 139 150 12 18 24 36 48 72 96 108 0 0 0 [04/23/14 21:27:51.963 IST 13 8151] 0017.7c2f.b69a Processing RSN IE type 48, length 20 for mobile 0017.7c2f.b69a [04/23/14 21:27:51.963 IST 14 8151] 0017.7c2f.b69a Received RSN IE with 0 PMKIDsfrom mobile 0017.7c2f.b69a

[04/23/14 21:27:51.964 IST 1b 8151] 0017.7c2f.b69a Change state to AUTHCHECK
(2) last state START (0)

[04/23/14 21:27:51.964 IST 1c 8151] 0017.7c2f.b69a Change state to 8021X_REQD
(3) last state AUTHCHECK (2)

[04/23/14 21:27:51.964 IST 25 8151] 0017.7c2f.b69a apfProcessAssocReq (apf_80211.c:6272) Changing state for mobile 0017.7c2f.b69a on AP 1caa.076f.9e10 from Associated to Associated

[04/23/14 21:27:51.971 IST 26 8151] 0017.7c2f.b69a 1XA: Initiating authentication [04/23/14 21:27:51.971 IST 27 8151] 0017.7c2f.b69a 1XA: Setting reauth timeout to 1800 seconds [04/23/14 21:27:51.971 IST 28 8151] 0017.7c2f.b69a 1XK: Set Link Secure: 0

[04/23/14 21:27:51.971 IST 29 8151] 0017.7c2f.b69a 1XA: Allocated uid 40 [04/23/14 21:27:51.971 IST 2a 8151] 0017.7c2f.b69a 1XA: Calling Auth Mgr to authenticate client 497500000003e uid 40 [04/23/14 21:27:51.971 IST 2b 8151] 0017.7c2f.b69a 1XA: Session Start from wireless client

[04/23/14 21:27:51.971 IST 2c 8151] 0017.7c2f.b69a Session Manager Call Client 497500000003e, uid 40, capwap id 7ae8c000000013,Flag 0, Audit-Session ID 0a6987b25357e2ff00000028, method list Microsoft_NPS, policy name (null)

[04/23/14 21:27:51.971 IST 2d 22] ACCESS-CORE-SM-CLIENT-SPI-NOTF: [0017.7c2f.b69a, Ca3] Session start request from Client[1] for 0017.7c2f.b69a (method: Dot1X, method list: Microsoft_NPS, aaa id: 0x00000028), policy [04/23/14 21:27:51.971 IST 2e 22] ACCESS-CORE-SM-CLIENT-SPI-NOTF: [0017.7c2f.b69a, Ca3] - client iif_id: 497500000003E, session ID: 0a6987b25357e2ff00000028 for 0017.7c2f.b69a

[04/23/14 21:27:51.972 IST 43 284] ACCESS-METHOD-DOT1X-DEB: [0017.7c2f.b69a, Ca3] Posting !EAP_RESTART on Client 0x22000025 [04/23/14 21:27:51.972 IST 44 284] ACCESS-METHOD-DOT1X-DEB: [0017.7c2f.b69a, Ca3] 0x22000025:enter connecting state [04/23/14 21:27:51.972 IST 45 284] ACCESS-METHOD-DOT1X-DEB: [0017.7c2f.b69a, Ca3] 0x22000025: restart connecting [04/23/14 21:27:51.972 IST 46 284] ACCESS-METHOD-DOT1X-DEB: [0017.7c2f.b69a, Ca3] Posting RX_REQ on Client 0x22000025 [04/23/14 21:27:51.972 IST 47 284] ACCESS-METHOD-DOT1X-DEB: [0017.7c2f.b69a, Ca3] 0x22000025: authenticating state entered [04/23/14 21:27:51.972 IST 48 284] ACCESS-METHOD-DOT1X-DEB: [0017.7c2f.b69a, Ca3] 0x22000025:connecting authenticating action [04/23/14 21:27:51.972 IST 49 291] ACCESS-METHOD-DOT1X-DEB: [0017.7c2f.b69a, Ca3] **Posting AUTH STAR**T for 0x22000025 [04/23/14 21:27:51.972 IST 4a 291] ACCESS-METHOD-DOT1X-DEB: [0017.7c2f.b69a, Ca3] 0x22000025:entering request state [04/23/14 21:27:51.972 IST 4b 291] ACCESS-METHOD-DOT1X-NOTF: [0017.7c2f.b69a, Ca3] Sending EAPOL packet [04/23/14 21:27:51.972 IST 4c 291] ACCESS-METHOD-DOT1X-INFO: [0017.7c2f.b69a, Ca3] Platform changed src mac of EAPOL packet [04/23/14 21:27:51.972 IST 4d 291] ACCESS-METHOD-DOT1X-NOTF: [0017.7c2f.b69a, Ca3] Sending out EAPOL packet [04/23/14 21:27:51.972 IST 4e 291] ACCESS-METHOD-DOT1X-INFO: [0017.7c2f.b69a, Ca3] EAPOL packet sent to client 0x22000025

[04/23/14 21:27:52.112 IST 7d 211] Parsed CLID MAC Address = 0:23:124:47:182:154 [04/23/14 21:27:52.112 IST 7e 211] AAA SRV(00000000): process authen req [04/23/14 21:27:52.112 IST 7f 211] AAA SRV(00000000): Authen method=SERVER_GROUP Microsoft_NPS [04/23/14 21:27:52.112 IST 80 211] AAA SRV(00000000): Selecting SG = DIAMETER [04/23/14 21:27:52.113 IST 81 186] ACCESS-METHOD-DOT1X-INFO: [0017.7c2f.b69a, Ca3] Queuing an EAPOL pkt on Authenticator Q [04/23/14 21:27:52.113 IST 82 291] ACCESS-METHOD-DOT1X-DEB: [0017.7c2f.b69a, Ca3] Posting EAPOL_EAP for 0x22000025 [04/23/14 21:27:52.278 IST 83 220] AAA SRV(00000000): protocol reply GET_CHALLENGE_RESPONSE for Authentication [04/23/14 21:27:52.278 IST 84 220] AAA SRV(00000000): Return Authentication status=GET_CHALLENGE_RESPONSE [04/23/14 21:27:52.278 IST 85 291] ACCESS-METHOD-DOT1X-DEB:[0017.7c2f.b69a,Ca3] Posting EAP_REQ for 0x22000025 :EAP تاجرخم ةيقب يلي اميف

[04/23/14 21:27:54.690 IST 12b 211] AAA SRV(00000000): process authen req [04/23/14 21:27:54.690 IST 12c 211] AAA SRV(00000000): Authen method=SERVER_GROUP Microsoft_NPS [04/23/14 21:27:54.690 IST 12d 211] AAA SRV(00000000): Selecting SG = DIAMETER [04/23/14 21:27:54.694 IST 12e 220] AAA SRV(00000000): protocol reply PASS for Authentication [04/23/14 21:27:54.694 IST 12f 220] AAA SRV(00000000): Return Authentication status=PASS [04/23/14 21:27:54.694 IST 130 189] ACCESS-METHOD-DOT1X-INFO: [0017.7c2f.b69a, Ca3] Received an EAP Success

[04/23/14 21:27:54.695 IST 186 8151] 0017.7c2f.b69a Starting key exchange with mobile - data forwarding is disabled [04/23/14 21:27:54.695 IST 187 8151] 0017.7c2f.b69a 1XA: Sending EAPOL message to mobile, WLAN=8 AP WLAN=8 [04/23/14 21:27:54.706 IST 188 8151] 0017.7c2f.b69a 1XA: Received 802.11 EAPOL message (len 121) from mobile [04/23/14 21:27:54.706 IST 189 8151] 0017.7c2f.b69a 1XA: Received EAPOL-Key from mobile [04/23/14 21:27:54.706 IST 18a 8151] 0017.7c2f.b69a 1XK: Received EAPOL-key in PTK_START state (msg 2) from mobile [04/23/14 21:27:54.706 IST 18b 8151] 0017.7c2f.b69a 1XK: Stopping retransmission timer [04/23/14 21:27:54.706 IST 18c 8151] 0017.7c2f.b69a 1XA: Sending EAPOL message to mobile, WLAN=8 AP WLAN=8 [04/23/14 21:27:54.717 IST 18d 8151] 0017.7c2f.b69a 1XA: Received 802.11 EAPOL message (len 99) from mobile [04/23/14 21:27:54.717 IST 18e 8151] 0017.7c2f.b69a 1XA: Received EAPOL-Key from mobile [04/23/14 21:27:54.717 IST 18f 8151] 0017.7c2f.b69a 1XK: Received EAPOL-key in PTKINITNEGOTIATING state (msg 4) from mobile [04/23/14 21:27:54.717 IST 190 8151] 0017.7c2f.b69a 1XK: Set Link Secure: 1 [04/23/14 21:27:54.717 IST 191 8151] 0017.7c2f.b69a 1XK: Key exchange complete - updating PEM [04/23/14 21:27:54.717 IST 192 8151] 0017.7c2f.b69a apfMs1xStateInc [04/23/14 21:27:54.717 IST 193 8151] 0017.7c2f.b69a Change state to **L2AUTHCOMPLETE (**4) last state 8021X_REQD (3)

[04/23/14 21:27:58.277 IST 1df 269] DHCPD: Sending notification of DISCOVER: [04/23/14 21:27:58.277 IST 1e0 269] DHCPD: Sending notification of DISCOVER: [04/23/14 21:28:05.279 IST 1e1 269] DHCPD: Adding binding to hash tree [04/23/14 21:28:05.279 IST 1e2 269] DHCPD: DHCPOFFER notify setup address 20.20.20.5 mask 255.255.0

[04/23/14 21:28:05.306 IST 1f4 8151] 0017.7c2f.b69a Change state to RUN (20)
last state DHCP_REQD (7)

ةمجرتاا مذه لوح

تمجرت Cisco تايان تايانق تال نم قعومجم مادختساب دنتسمل اذه Cisco تمجرت ملاعل العامي عيمج يف نيم دختسمل لمعد يوتحم ميدقت لقيرشبل و امك ققيقد نوكت نل قيل قمجرت لضفاً نأ قظعالم يجرُي .قصاخل امهتغلب Cisco ياخت .فرتحم مجرتم اممدقي يتل القيفارت عال قمجرت اعم ل احل اوه يل إ أم اد عوجرل اب يصوُتو تامجرت الاذة ققد نع اهتي لوئسم Systems الما يا إ أم الا عنه يل الان الانتيام الال الانتيال الانت الما