



ةصاخ ةي لمعم ةئيب يف ةدوجوملا ةزهجال نم دنتسملا اذه يف ةدراول تامولعمل عاشنإ مت تناك اذا. (يضا رتفا) حوسمم نيوكتب دنتسملا اذه يف ةمدختسُملا ةزهجال اعيمج تادب رمأ يأل لم تحملا ريثأتلل كمهف نم دكأتف، ليغشتلا ديقتك تكبش.

## ةيساسأ تامولعم

ذفني وانم اقفن ئشننيو قفن ىلإ دنتسي عسوتم ةقداصم لوكوتورب بولسأ وه TEAP نومضملا قفنلا كلفة يامح تحت ىرخألا EAP بيلاسأ.

يفو. ةباجتسالال لدابت/يولوال EAP فرعم بلط دعب ني تلحرم يف TEAP ةقداصم ثدحت ريفوتل TLS ةحفاصم يداصتقالا مبيقتلاو ايجولونكتلا قيرف مدختسي، ىلوالا ةلحرملا ةلحرملا أدبت، قفنلا عاشنإ درجمبو. يمحم قفن عاشنإو هيلع قداصم حيتافم لدابت ةبولطملا ةقداصملا عاشنإل تاثداحملا نم ديزم يف مدخال او ريظنلا ةكراشمب ةيناثلا ليوختلا تاسايسو.

EAP مداخو EAP ريظن ني ب ةقداصملا ب ةقلعتملا تانايبلا لقنل قفنلا لخاد (TLV) type-length-value تانئاك مادختسا متي. TEAP لوكوتورب ثدخال تارادصإل او Cisco ISE 2.7 معددي.

2020 ويام يف هرادصإ مت يذلا Windows 2004 نم 10 رادصإل يف TEAP معد Microsoft تم دق.

نم ال دب ةدحاو EAP/RADIUS ةسلج لالخ زاهجلا ةقداصم و مدختسملل EAP لسلسلست حمسي Cisco AnyConnect ةدحو ىلإ ةجاحب تنك، كلفد قيقتل، قبس اميف. ني تلصف نم ني تسلج مل يلاصلال Windows بلاط نأ شيح Windows بلاط ىلع EAP-FAST مادختساو ةيظمنلا NAM ISE مادختساب EAP ليصوت اعجال يلاصلال Windows سمتم لم مادختسا كنكمي، نألا. اذه معددي TEAP مادختساب 2.7.

## نيوكتلا

### نيوكت Cisco ISE

EAP و TEAP ليصوت ني كمتمل اهب حومسملا تالوكوتوربلا ريرحت ىلإ جاتحت 1. ةوطخلا

رايخالا تاناخ ديحت. ISE > Policy > Policy Elements > Results > Authentication > Allowed Protocols > Add New. ىلإ لقتنا EAP و EAP ليصوتب ةصاخلا

Dictionarys Conditions **Results**

**Authentication** ▾

**Allowed Protocols**

**Authorization** >

**Profiling** >

**Posture** >

**Client Provisioning** >

- Allow MS-CHAPv2
- Allow EAP-MD5
- Allow EAP-MS-CHAPv2
- Allow Password Change Retries 1 (Valid Range 0 to 3)
- Allow TEAP**
- TEAP Inner Methods
  - Allow EAP-MS-CHAPv2
  - Allow Password Change Retries 3 (Valid Range 0 to 3) ⓘ
  - Allow EAP-TLS
  - Allow Authentication of expired certificates to allow certificate renewal in Authorization Policy ⓘ
  - Allow downgrade to MSK ⓘ
  - Accept client certificate during tunnel establishment ⓘ
  - Enable EAP Chaining** ⓘ
- Preferred EAP Protocol LEAP ▾ ⓘ
- EAP-TLS L-bit ⓘ
- Allow weak ciphers for EAP ⓘ
- Require Message-Authenticator for all RADIUS Requests ⓘ

ةوهلا ردصم لسلسلت ىلإ هتفاضوا صيخرت فيرعت فلم عاشناب مق 2 ةوطخلال

ةداهشلا فيرعت فلم رتخاوا identity Source Sequence ISE > Administration > Identities > ىلإ لقتنا

Identities Groups External Identity Sources **Identity Source Sequences** Settings

▾ Identity Source Sequence

\* Name

Description

▾ Certificate Based Authentication

**Select Certificate Authentication Profile**

▾ Authentication Search List

A set of identity sources that will be accessed in sequence until first authentication succeeds

Available	Selected
Internal Endpoints	<input checked="" type="checkbox"/> Internal Users
Guest Users	<input checked="" type="checkbox"/> ADJooint



دنتسملا اذه يف ةيكلسلال ةقداصلما دادع| نيوكتب مق

Control Panel > Network and Sharing Center > Change Adapter Settings رزنو LAN Connection > Authentication قوف رزنو Properties.

Microsoft EAP-TEAP رتخاو لدسنملا Authentication قوف رزنو 1. ةوطخلال



## pciPassthru0 Properties



Networking

Authentication

Select this option to provide authenticated network access for this Ethernet adapter.

Enable IEEE 802.1X authentication

Choose a network authentication method:

Microsoft: EAP-TEAP



Settings

Remember my credentials for this connection each time I'm logged on

Fall-back to unauthorised network access

Additional Settings...

OK

Cancel

1. ءي وهك anonymous نيك مئلا ءين الك ماب Enable Identity Privacy ظافئءال ال.

- مدءئسئ ءئلا اءب قوئوم ال رءءل ال قئءصئلا عءارم ئءء رءءل ال CA (مءاوئ) مءاؤ راءب راءئءءم ال عؤ ءء  
ءل عء ءل ال EAP ءءصم ءءاءش عئ قوئل

## TEAP Properties



Enable identity privacy

anonymous

### Server certificate validation

Connect to these servers:

Trusted Root Certification Authorities:

- AAA Certificate Services
- anshsinh-WIN-V4URD2NQ34O-CA

- Baltimore CyberTrust Root
- Class 3 Public Primary Certification Authority
- COMODO RSA Certification Authority

Don't prompt user if unable to authorise server

### Client authentication

Select a primary EAP method for authentication

Microsoft: Smart Card or other certificate

Configure

Select a secondary EAP method for authentication

Microsoft: Smart Card or other certificate

Configure

OK

Cancel



1. ةقداصملا عضو ديدحت نيكمت .

2. بسانملا دادعالا لىلةلدسنملاةمئاقلا نييعتب مق .

3. OK رقناو امهليلك لىع قيصدصتلا متي شيحب User or computer authentication رتخأ .

## Advanced settings



### 802.1X settings

Specify authentication mode

User or computer authentication

Save credentials

Delete credentials for all users

Enable single sign on for this network

Perform immediately before user log-on

Perform immediately after user log-on

Maximum delay (seconds):

10

Allow additional dialogues to be displayed during single sign on

This network uses separate virtual LANs for machine and user authentication

OK

Cancel



## Authentication Details

Event	5200 Authentication succeeded
Username	anonymous,host/Administrator
Endpoint Id	B4:96:91:26:E1:A1
Calling Station Id	B4-96-91-26-E1-A1
Endpoint Profile	Intel-Device
IPv4 Address	169.254.75.41
Identity Group	Profiled
Audit Session Id	BD256A0A000000266EB5A242
Authentication Method	dot1x
Authentication Protocol	TEAP (EAP-TLS)
Service Type	Framed

### Other Attributes

UseCase	Eap Chaining
NACRadiusUserName	host/Administrator
SelectedAuthenticationIdentityStores	cert_profile
AuthenticationStatus	AuthenticationPassed
IdentityPolicyMatchedRule	Default
AuthorizationPolicyMatchedRule	Machine Authentication
Serial Number	47 00 00 00 1C 84 F9 DB 39 FA 16 4F EB 00 00 00 00 1C
EndPointMACAddress	B4-96-91-26-E1-A1
EapChainingResult	User failed and machine succeeded



## Authentication Details

Event	5200 Authentication succeeded
Username	Administrator@anshsinh.local,host/Administrator
Endpoint Id	B4:96:91:26:E1:A1
Calling Station Id	B4-96-91-26-E1-A1
Endpoint Profile	Intel-Device
IPv4 Address	169.254.75.41
Identity Group	Profiled
Audit Session Id	BD256A0A000000266EB5A242
Authentication Method	dot1x
Authentication Protocol	TEAP (EAP-TLS)
Service Type	Framed

## Other Attributes

UseCase	Eap Chaining
NACRadiusUserName	Administrator@anshsinh.local
NACRadiusUserName	host/Administrator
SelectedAuthenticationIdentityStores	cert_profile
AuthenticationStatus	AuthenticationPassed
IdentityPolicyMatchedRule	Default
AuthorizationPolicyMatchedRule	User Authentication
Serial Number	47 00 00 00 1C 84 F9 DB 39 FA 16 4F EB 00 00 00 00 1C
EndPointMACAddress	B4-96-91-26-E1-A1
EapChainingResult	User and machine both succeeded

هوالص او عاطخأل فاشكتسا

ISE: لى عحيحصت اذه نكمي نأجاتحت تناً

- runtime-AAA
- nsf

- nsf-session
- (أهال الص أو AD و ISE أاطخأ فاشك تسال) ةم دغ Active Directory

ف Windows، م ي كنك م ق قحت لال كنك م ي Windows.

طشن لال لجلس لال لجلس

زاه لال ة قداصم

<#root>

11001 Received RADIUS Access-Request 11017 RADIUS created a new session ... .. 11507 Extracted EAP-Response/Identity

12756 Prepared EAP-Request proposing TEAP with challenge

... ..

12758 Extracted EAP-Response containing TEAP challenge-response and accepting TEAP as negotiated

12800 Extracted first TLS record; TLS handshake started 12805 Extracted TLS ClientHello message 12806

11559 Client certificate was requested but not received inside the tunnel. Will continue with inner method

... ..

11627 Starting EAP chaining 11573 Selected identity type 'User'

11564 TEAP inner method started 11521 Prepared EAP-Request/Identity for inner EAP method ... .. 11567

11806 Prepared EAP-Request for inner method proposing EAP-MSCHAP with challenge

11596 Prepared EAP-Request with another TEAP challenge 11006 Returned RADIUS Access-Challenge 11001 Re

11515 Supplicant declined inner EAP method selected by Authentication Policy but did not proposed another

22028 Authentication failed and the advanced options are ignored 33517 Sent TEAP Intermediate Result T

11574 Selected identity type 'Machine' 11564 TEAP inner method started

11521 Prepared EAP-Request/Identity for inner EAP method ... .. 11567 Identity type provided by client

11806 Prepared EAP-Request for inner method proposing EAP-MSCHAP with challenge

11596 Prepared EAP-Request with another TEAP challenge ... ..

12523 Extracted EAP-Response/NAK for inner method requesting to use EAP-TLS instead

12522 Prepared EAP-Request for inner method proposing EAP-TLS with challenge 12625 Valid EAP-Key-Name

22037 Authentication Passed 12528 Inner EAP-TLS authentication succeeded

11519 Prepared EAP-Success for inner EAP method 11565 TEAP inner method finished successfully

... .. 33516 Sent TEAP Intermediate Result TLV indicating success 11596 Prepared EAP-Request with another

11576 TEAP cryptobinding verification passed

... ..

15036 Evaluating Authorization Policy

24209 Looking up Endpoint in Internal Endpoints IDStore - anonymous,host/Administrator 24211 Found End

11597 TEAP authentication phase finished successfully 11503 Prepared EAP-Success 11002 Returned RADIUS A

زاهجلاو مدختسم لاق داصم

<#root>

11001 Received RADIUS Access-Request 11017 RADIUS created a new session ... ..

12756 Prepared EAP-Request proposing TEAP with challenge

... ..

12758 Extracted EAP-Response containing TEAP challenge-response and accepting TEAP as negotiated

12800 Extracted first TLS record; TLS handshake started 12805 Extracted TLS ClientHello message 12806

11620 TEAP full handshake finished successfully

11596 Prepared EAP-Request with another TEAP challenge ... .. 11595 Extracted EAP-Response containing

11627 Starting EAP chaining

11573 Selected identity type 'User' 11564 TEAP inner method started

11521 Prepared EAP-Request/Identity for inner EAP method 11596 Prepared EAP-Request with another TEAP

11806 Prepared EAP-Request for inner method proposing EAP-MSCHAP with challenge

11596 Prepared EAP-Request with another TEAP challenge ... ..

12523 Extracted EAP-Response/NAK for inner method requesting to use EAP-TLS instead

12522 Prepared EAP-Request for inner method proposing EAP-TLS with challenge ... .. 11595 Extracted E

22037 Authentication Passed

12528 Inner EAP-TLS authentication succeeded 11519 Prepared EAP-Success for inner EAP method

11565 TEAP inner method finished successfully

33516 Sent TEAP Intermediate Result TLV indicating success 11596 Prepared EAP-Request with another TEA

11576 TEAP cryptobinding verification passed 11574 Selected identity type 'Machine'

11564 TEAP inner method started ... ..

11806 Prepared EAP-Request for inner method proposing EAP-MSCHAP with challenge

11596 Prepared EAP-Request with another TEAP challenge ... ..

12523 Extracted EAP-Response/NAK for inner method requesting to use EAP-TLS instead

12522 Prepared EAP-Request for inner method proposing EAP-TLS with challenge

... ..

12524 Extracted EAP-Response containing EAP-TLS challenge-response for inner method and accepting EAP-T

12800 Extracted first TLS record; TLS handshake started

12545 Client requested EAP-TLS session ticket

12546 The EAP-TLS session ticket received from supplicant. Inner EAP-TLS does not support stateless sess

12805 Extracted TLS ClientHello message 12806 Prepared TLS ServerHello message 12807 Prepared TLS Cert

22037 Authentication Passed 12528 Inner EAP-TLS authentication succeeded 11519 Prepared EAP-Success for

11565 TEAP inner method finished successfully 33516 Sent TEAP Intermediate Result TLV indicating succe

15036 Evaluating Authorization Policy

24209 Looking up Endpoint in Internal Endpoints IDStore - Administrator@example.local,host/Administrat

11597 TEAP authentication phase finished successfully 11503 Prepared EAP-Success 11002 Returned RADIUS A

ةلص تاذا تامولعم

- [1 رادص الال \(TEAP\) قف نلل عسوت ملال عق داص ملال لوكوت ورب](#)
- [مداخل الال بنال نم قلا نودب \(TLS\) لقنلال عق بط نامأل مع قسلج فانئئسا](#)
- [ISE و AnyConnect NAM قلع ذئ فننلالا تايل مع لسل سسوت و EAP-FAST مهف](#)
- [Cisco Systems - نادنئ سمل او ينقنلالا مع دللا](#)



ةمچرتل هذه لوج

ةللأل تاي نقتل نمة ومة مادختساب دن تسمل اذة Cisco تمةرت  
ملاعلاء انء مء مء نء مء دختسمل معد و تمة مء دقتل ةر شبل او  
امك ةق قء نوك ت نل ةللأل ةمچرت لصف أن ةظحال مء ءء. ةصاأل مء تءل ب  
Cisco ةلخت. فرتمة مچرت مء مء دق ةل ةل ةل ةل ةل ةل ةل ةل ةل ةل ةل  
ىل إأمءءء و ءو ءل اب ةل ةل ةل ةل ةل ةل ةل ةل ةل ةل ةل ةل ةل  
(رفو تم طبارل) ةل ةل ةل ةل ةل ةل ةل ةل ةل ةل ةل ةل ةل ةل