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Introduction

Cybersecurity threats continue to evolve, compromising sensitive and confidential information across the network. To combat this threat, enterprises are taking mitigating actions to strengthen device access across their critical IT infrastructure. Two-factor authentication can significantly reduce the risk of adversaries

-----BEGIN CERTIFICATE-----

MIIDcDCCAligAwIBAgIBBTANBgkqhkiG9w0BAQUFADBbMQswCQYDVQQGEwJVUzEY
MBYGA1UEChMPVS5TLiBHb3Zlcm5tZW50MQwwCgYDVQQLEwNEb0QxDDAKBgNVBAsT
...<snip>
tX3h4NGW56E6LcyxnR8FRO2HmdNNGnA5wQQM5X7Z8a/XIA7xInolpHOZzD+kByeW

3. Select the proper user certificate from the CAC card in the popup window

The two options are:

- 1.

Cisco IOS Configuration (Mandatory)

1. Add the TACACS+ server and provision the shared secret and IP address of the TACACS+ server.

```
tacacs server ACS  
  address ipv4 172.25.180.117  
  key cisco123
```

2. Configure TACACS+ for user authorization. TACACS+ uses the AAA architecture, which separates the authentication, authorization, and accounting functions. This allows separate authentication solutions that

Commonly Used debug Commands

debug crypto pki callbacks

debug crypto pki messages

debug crypto pki transactions

debug crypto pki validation

debug ip ssh detail

debug ip ssh packet

debug tacacs authentication

debug tacacs authorization

debug tacacs events

debug tacacs packet

Example Configuration

```
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
!
aaa new-model
!
aaa group server tacacs+ ACS
  server name ACS
!
```

