# Cisco é€©å¿œåž‹ã‚»ã‚ãƥãƪãƆã‚£ ã‚¢ãƗ—ãƩã‚¤ã‚ãƳã‚¹ï¼ˆASAï¼‰ã‚½ãƕãƈã‚¦ã‚§ã‚¢ ã‚½ãƕãƈã‚¦ã‚§ã‚¢ Kerberos èª€è¨¼ãƒ€ã‚¤ãƒ‘ã‚¹ã€®è„†å¼±æ€§

High

**ã‚¢ãƒ‰ãƒã‚¤ã‚¶ãƪãƼID :** cisco-asa-kerberos-bypass-96Gghe2sS

**åˆ€å…¬é–‹æ—¥ :** 2020-05-06 16:00

**æœ€çµ‚æ›´æ–°æ—¥ :** 2020-05-07 14:39

**ãƒãƼã‚¸ãƧãƳ 1.1 :** Final

**CVSSã‚¹ã‚³ã‚¢ :** 8.1

**å›žé€ç– :** No workarounds available

**Cisco ãƒã‚° ID :** CSCvq73534

CVE-2020-3125

**æ—¥æœ¬èªžã«ã‚ˆã‚‹æ…å ±ã¯ã€è‹±èªžã«ã‚ˆã‚‹åŽŸæ–‡ã®é€žå…¬å¼ã**

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Cisco é€©å¿œåž‹ã‚»ã‚ãƥãƪãƆã‚£ ã‚¢ãƗ—ãƩã‚¤ã‚ãƳã‚¹ï¼ˆASAï¼‰ã‚½ãƕãƈã‚¦ã‚§ã‚¢ã‚¹ã‚¤ãƼãƈã€ASA ã‚½ãƕãƈã‚¦ã‚§ã‚¢ã‚¹ã‚¤ãƼãƈã€ãŠã‚ˆã³ Cisco FTD ã‚½ãƕãƈã‚¦ã‚§ã‚¢ã‚¹ã‚¤ãƼãƈ KDCï¼‰ã‚’è£…å¤‰ã—ã„ã‚‹ VPN ã‚µãƒãƼã‚«ãƼãƈã‚¤ãƒ³ã‚¿ãƼãƕã‚§ã‚¤ã‚¹ã«å¯¾ã™ã‚‹ã€èª€ã£ãŸèª€è¨¼ãƒ‡ãƼã‚¿ã‚’å‡¦ç†ã™ã‚‹ã¨ã€ãƪãƒ¢ãƼãƈ KDC ã®ãƒ—ãƭã‚»ã‚¹ãŒäºˆæœŸã—ãªã„å†èµ·å‹•ã‚’ç™ºç”Ÿã™ã‚‹å¯èƒ½æ€§ãŒã‚ã‚Šã¾ã™ã€‚ã“ã®è„†å¼±æ€§ã¯ã€ä¸æ£å…¥åŠ›ãƒ‡ãƼã‚¿ã‚’å‡¦ç†ã™ã‚‹ã“ã¨ã«èµ·å› ã—ã¾ã™ã€‚æ”»æ’ƭè€…ã¯ã€ã“ã®è„†å¼±æ€§ã‚’ä¾µå…¥ã®ãŸã‚ã«åˆ©ç”¨ã™ã‚‹ã“ã¨ã€ã‚µãƼãƈ KDC ãƪãƒ¢ãƼãƈã€ã¾ãŸã¯ãƪãƒ¢ãƼãƈ KDC ã‚µãƼãƈ KDC ã‚µãƼãƈ KDC ã‚µ

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ã“ã®ã‚¢ãƒ‰ãƒã‚¤ã‚¶ãƒªã¯ã€2020 å¹´ 5 月㫠公開ã•ã‚Œã Cisco ASAã€FMCã€FTD ã‚½ãƒ•ãƒˆã‚¦ã‚§ã‚¢ ã‚¢ãƒƒãƒ—ã‚°ãƒ¬ãƒ¼ãƒ‰ã«ã¯ã€ã‚µãƒãƒ¼ãƒˆå¥‘ç´„ãŒå¿…è¦ã§ã™ã€‚ã“ã®ã‚¢ãƒ‰ãƒã‚¤ã‚¶ãƒªã¯ã€2020 å¹´ 5 月㫠公開ã•ã‚Œã 12 ä»¶ã®è„†å¼±æ€§ã«é–¢ä¿‚ã—ã¾ã™ã€‚ã“ã®ã‚¢ãƒ‰ãƒã‚¤ã‚¶ãƒªã«ã¯ã€ã‚·ã‚¹ã‚³ã®ã‚»ã‚ãƒ¥ãƒªãƒ†ã‚£ ã‚¢ãƒ‰ãƒã‚¤ã‚¶ãƒªã«è¨˜è¼‰ã•ã‚Œã¦ã„ã‚‹ã‚½ãƒ•ãƒˆã‚¦ã‚§ã‚¢ã‚¢ãƒƒãƒ—ã‚°ãƒ¬ãƒ¼ãƒ‰ã§ä¿®æ£ã•ã‚Œã‚‹è„†å¼±æ€§ã«é–¢ã™ã‚‹æƒ…å ±ã‚‚è¨˜è¼‰ã•ã‚Œã¦ã„ã¾ã™ã€‚ã“ã®ã‚¢ãƒ‰ãƒã‚¤ã‚¶ãƒªã¯ã€2020 å¹´ 5 月㫠公開ã•ã‚Œã Cisco ASAã€FMCã€FTD ã‚½ãƒ•ãƒˆã‚¦ã‚§ã‚¢ ã‚¢ãƒƒãƒ—ã‚°ãƒ¬ãƒ¼ãƒ‰ã«

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Cisco ASA ã‚½ãƒ•ãƒˆã‚¦ã‚§ã‚¢ã‚’å®Ÿè¡Œã—ã¦ã„ã‚‹å ´åˆã€ã¾ãŸã¯ VPN
ã¾ãŸã¯ãƒ•ã‚¡ã‚¤ã‚¢ãƒ‰ãƒã‚¤ã‚¹ã®ã‚¿ã‚¤ãƒ—ã¨ã—ã¦ã«å¯¾ã—ã¦ã¦ã„ã‚‹å ´åˆã«ã€ã“ã®è„†å¼±æ€§ã®å½±éŸ¿ã‚’å—ã‘ã¾ã™ã€‚

### Kerberos
### èª¿ã¹ã‚‹è¨å®šã•ã‚Œã‚‹ã‚ˆã†ã«ã—ã¦ã„ã‚‹å ´åˆ

ç®¡ç†è€…ã¯ **show running-config aaa-server ã‚’ä½¿ç”¨ã—ã¦ã‚¤ãƒ³ | Kerberos ã‚’**
Kerberos
ã‚µãƒ¼ãƒãƒ¼ã‚°ãƒ«ãƒ¼ãƒ—ã‚’è¨å®šã•ã‚Œã‚‹ã‚ˆã†ã«ã—ã¦ã„ã‚‹å ´åˆã«ã¯ã€ã“ã®è„†å¼±æ€§ã®å½±éŸ¿ã‚’å—ã‘ã¾ã™ã€‚æ¬¡ã®ä¾‹ã¯ã€ã‚µãƒ¼ãƒãƒ¼ã‚°ãƒ«ãƒ¼ãƒ— 1 Kerberos
ã‚ã‚Šã€ã‚µãƒ¼ãƒãƒ¼ã‚°ãƒ«ãƒ¼ãƒ—ã«ã¯ã²ã¨ã¤ã®ã‚µãƒ¼ãƒãƒ¼ãŒè¨å®šã•ã‚Œã¦ã„ã¾ã™ã€‚ã“ã®ä¾‹ã§ã¯ã€ã‚µãƒ¼ãƒãƒ¼ã‚°ãƒ«ãƒ¼ãƒ—ã®åå‰ãŒ *asaKerberosTestServer* ã¨æŒ‡å®šã•ã‚Œã¦ã„ã¾ã™ã€‚

```
<#root>

device(config)#
show running-config aaa-server | include kerberos

aaa-server
asaKerberosTestServer
```

```
 protocol kerberos
kerberos-realm DEV.ASA.TEST
```

å‡ºåŠ›ã•§æ˚»ã‚‹ Kerberos ã‚µãƼ¼ãƒ•å••ã•Œè¨å®š[1]
ã•§ä»–ã•®æ‰€ã•§å•,ç…§ã••ã,Œã,‹å ´å•^ã€•Kerberos
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ç®¡ç•†è€…ã•¯ **show running-config all ã,'**ä½¿ç"¨ã•§ã••ã•¾ã•™ | Kerberos
èª•è¨¼ã•Œè¨å®šã••ã,Œã,‹ã•‹ã•©ã•†ã•‹ç¢ºã•‹ã,•ã,‹ã•Ÿã,•ã•« <**kerberos ã,µãƼ¼ãƒ• name>** ã,³ãƒžãƒ³ãƒ‰ã,'**å•«ã,"ã•§ä¸‹ã••ã•„**ã€,
æ¬¡ã•®ä¾‹ã•§ã•¯ã€•Kerberos ã,µãƼ¼ãƒ•å•• *asaKerberosTestServer*
ã•Œã,»ã,ãƥ¥ã,¢ã,·ã,§ãƒ«ï¼^SSHï¼‰ã,³ãƒ³ã,½ãƼ¼ãƒ«ã•®èª•è¨¼ç"¨ã•«è¨å®šã••ã,Œã•¦ã•„ã•
VPN ã,¢ã,¯ã,»ã,1ç"¨ã•«è¨å®šã•™ã,‹ã•"ã••ã,,ã•§ã••ã•¾ã•™ï¼‰ã€,

<#root>

```
device(config)#
```

**show running-config all | include asaKerberosTestServer**

```
aaa-server
```

**asaKerberosTestServer**

```
 protocol kerberos
aaa-server
```

**asaKerberosTestServer**

```
 (inside) host DEV.ASA.TEST
aaa authentication ssh console
```

**asaKerberosTestServer**

1. **kcd ã,µãƼ¼ãƒ•ã•® <kerberos server name>** CLI ã,³ãƒžãƒ³ãƒ‰ã•¯ä¾‹å¤–ã•§ã•™ã€,
Kerberos
ã,µãƼ¼ãƒ•å•••ã•®å"¯ä¸€ã•®ä¾‹ã•Œã•"ã•®ã,³ãƒžãƒ³ãƒ‰ã•§ã•,ã,‹å ´å•^ã€•ãƒ‡ãƒ•ã,¤ã

## è„†å¼±æ€§ã,'å•«ã,"ã•§ã•„ã•ªã•„ã•"ã••ã•Œç¢ºèª•ã••ã,Œã•Ÿè£½å"•

ã•"ã•®ã,¢ãƒ‰ãƒ•ã,¤ã,¶ãƪã•®è„†å¼±æ€§ã•Œ Cisco Firepower Management Centerï¼^FMCï¼‰ã,½ãƒ•ãƒˆã,¦ã,§ã,¢ã•¾ã•Ÿã•¯ Cisco Firepower Threat Defenseï¼^FTDï¼‰ã,½ãƒ•ãƒˆã,¦ã,§ã,¢ã•«å½±éŸ¿ã,'å•Šã•¼ã•ã•ªã•„ã•"ã••ã,'ç¢ºèª•ã••—

## è©³ç´°

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Cisco ASA ãƒ‡ãƒ•ã,¤ã,¹ã¯ CLI ã,³ãƒžãƒ³ãƒ‰ã•Œæ¤œè¨¼ã—kdcã€•AAA ã•Œ Kerberos ã,¤ãƒ³ãƒ•ãƒ¼ãƒˆkeytab è¨å®šã•ã,Œã,Œã°è„†å¼±ã§ã€•ã¾ ä¸•æ£åˆ©ç"¨ã™ã,‹ã"ã¨ã•Œã§ã••ã¾ã"ã,Œã,‰ã®æ–°ã—ã„æ§‹æˆ•ã,³ãƒžãƒ³ãƒ‰ã¯ ASA ã•Œã"ã® Security Advisory ã«è¾¼æ˜Žã•Œã,ã,‹è„†å¼±æ€§ã,'é˜²ã••å•„ãƒ¦ãƒ¼ã,¶èª•è¨¼ ãƒˆãƒ©ãƒ³ã,¶ã,¯ã,·ãƒ§ãƒ³ã•®é–"ã« KDC ã,'æ¤œè¨¼ã™ã,‹ã,^ã†ã«ã—ã¾ã™ã€,

ç®¡ç•†è€…ã•¯ã€• **ãƒ‡ãƒ•ã,¤ã,¹ã•® CLI ã•§ã€•validate-kdc** ã,³ãƒžãƒ³ãƒ‰ã,'å…¥åŠ›ã—ã¦ã•<ã,‰ã€• **aaa kerberos import-keytab** ã,³ãƒžãƒ³ãƒ‰ã,'å…¥åŠ›ã—ã¦ã•—ã•¦ã€•ã,³ãƒžãƒ³ãƒ‰ã,'è¨å®šã•§ã••ã•¾ã•™ã€,

**æ¤œè¨¼kdc** ã,³ãƒžãƒ³ãƒ‰ã•Œæœ‰åŠ¹ã•« ã•ªã,‹å ´å•^ã€•ASA ã•¯ã••ã•®ã,µãƒ¼ãƒ•ã•®å•„ãƒ¦ãƒ¼ã,¶èª•è¨¼ ãƒˆãƒ©ãƒ³ã,¶ã,¯ã,·ãƒ§ãƒ³ã•®é–"ã«ã,µãƒ¼ãƒ"ã,¹ ãƒ•ã,±ãƒƒãƒˆ,'ãƒ¦ãƒ¼ã,¶å•'ã•'ã•®è¦•æ±,ã•—ã€•ä»¥å‰•ã•«ä¿•å˜ã••ã,Œã•Ÿã,ãƒ¼ ãƒ†ãƒ¼ãƒ–ãƒ«ï¼^keytabï¼‰ã•«å¯¾ã•—ã•¦å¿œç"ã,'ç¢ºèª•ã•™ã,‹ã•"ã•¨ã•«ã,^ã•£ã•¦ Kerberos ã,µãƒ¼ãƒ•ï¼^KDCï¼‰ã,'æ¤œè¨¼ã•—ã•¾ã•™ã€, **AAA Kerberos ã,¤ãƒ³ãƒ•ãƒ¼ãƒˆkeytab** ã,³ãƒžãƒ³ãƒ‰ã•¯ ASA ã•« Kerberos keytab ãƒ•ã,¡ã,¤ãƒ«ã,'ã,¤ãƒ³ãƒ•ãƒ¼ãƒˆã•—ã•¾ã•™ã€,

æ¬¡ã•®å®Ÿè¡Œçµ•æžœã•¯ **validate-kdc** ã•¨ **aaa kerberos import-keytab** ã,³ãƒžãƒ³ãƒ‰ã•®è¨å®šã,'ç¤ºã•—ã•¦ã•„ã•¾ã•™ã€,

```
<#root>

device(config)#

 validate-kdc

device(config)#

aaa kerberos import-keytab disk0:mykeytab

device#

show aaa kerberos keytab

Principal:   host/testing@DEV.ASA.TEST

Key version: 10

Key type:    arcfour (23)
```

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ã,·ãƒªãƒ¼ã,º ã,³ãƒžãƒ³ãƒ‰ãƒ¬ãƒ•ã,¡ãƒ¬ãƒ³ã,¹ã€�A-H ã,³ãƒžãƒ³ãƒ‰ï¼ˆ**AAA Kerberos ã,¤ãƒ³ãƒ�ãƒ¼ãƒˆkeytab** ã,³ãƒžãƒ³ãƒ‰ï¼‰ã�Šã,ˆã�³ Cisco ASA ã,·ãƒªãƒ¼ã,º ã,³ãƒžãƒ³ãƒ‰ãƒ¬ãƒ•ã,¡ãƒ¬ãƒ³ã,¹ã,'ã€�T - Z ã,³ãƒžãƒ³ãƒ‰å�,ç…§ã�—ã�¦ä¸‹ã�•ã�„ï¼ˆã,³ãƒžãƒ³ãƒ‰ã,'æ¤œè¨¼ã�—ã�¦**kdc ä¸‹ã�•ã�„**ï¼‰ã€,

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https://www.cisco.com/c/en/us/products/end-user-license-agreement.html

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https://www.cisco.com/c/en/us/support/web/tsd-cisco-worldwide-contacts.html

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URL ã,'ã"ç"¨æ„ã ã•ã„ã€,

## ä¿®æ£æ¸ˆã¿ãƒªãƒªãƒ¼ã,¹

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ä¸å¤®ã®å^—ã¯ã€ãƒªãƒªãƒ¼ã,¹ã Œã"ã®ã,¢ãƒ‰ãƒã,¤ã,¶ãƒªã«è¨˜è¼‰ã•ã,Œã¦ã
å ³ã®å^—ã¯ã€ãƒªãƒªãƒ¼ã,¹ã Œã"ã®ãƒ ãƒ³ãƒ‰ãƒ«ã«è¨˜è¼‰ã•ã,Œã Ÿä½•ã,‰ã

**Cisco ASA ã,½ãƒ•ãƒˆã,¦ã,§ã,¢**

| Cisco ASA ã,½ãƒ•ãƒˆã,¦ã,§ã,¢ ãƒªãƒªãƒ¼ã,¹ | ã"ã®è„†å¼±æ€§ã«å¯¾ã™ã,‹æœ€å^ã®ä¿®æ£ãƒªãƒªãƒ¼ã,¹ | ã,¢ãƒ‰ |
|---|---|---|
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| 9.6 | ä¿®æ£æ¸ˆã¿ãƒªãƒªãƒ¼ã,¹ã«ç§»è¡Œã—ã¾ã™ã€, | ä¿®æ£ |
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| 9.8 | 9.8.4.15 | 9.8.4.20 |
| 9.9 | 9.9.2.66 | 9.9.2.67 |
| 9.10 | 9.10.1.37 | 9.10.1.4 |
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1. Cisco ASA ã,½ãƒ•ãƒˆã,¦ã,§ã,¢ ãƒªãƒªãƒ¼ã,¹ 9.5 ä»¥å‰ã•ã,^ã•³ 9.7
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CLI ã,³ãƒžãƒ³ãƒ‰ã�Œæ¤œè¨¼ã�—**kdcã€�AAA ã�Œ Kerberos ã,¤ãƒ³ãƒ�ãƒ¼ãƒˆkeytab**
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# URL

https://tools.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-asa-kerberos-bypass-96Gghe2sS

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翻訳について
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