

ã,·ã,¹ã,³è£¹/²å“♦ã?«ã♦Šã?‘ã,<ç°å·¥ã?•ã,CÆã?Ý

## Ipv6

ãf♦ã,¤ãf♦ãf¹/₄æžçç’çãf’ã,±ãffãf^ã?«ã,^ã,<ã,¶



ã,çãf‰ãf♦ã,¤ã,¶ãfãf¹/₄ID : cisco-sa-

20160525-ipv6

[CVE-2016-](#)

[1409](#)

å^♦å...¬é-æ—¥ : 2016-05-25 16:00

æœ€gæ»`æ—°æ—¥ : 2019-09-16 19:48

ãf♦ãf¹/₄ã,ãf§ãf³ 1.16 : Final

CVSSã,¹ã,³ã,c : [5.8](#)

å›žé♦ç- : No workarounds available

Cisco ãf♦ã,º ID : [CSCva94139](#) [CSCva17794](#)

[CSCva21637](#) [CSCva39982](#) [CSCuz66542](#)

[CSCuz80276](#) [CSCuz83883](#) [CSCuz80281](#)

[CSCuz81292](#) [CSCuz89940](#) [CSCva61877](#)

[CSCvb19057](#) [CSCva33531](#) [CSCuz79330](#)

[CSCuz96600](#)

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## æ!,è!?

è¤?æ•°ã?®ã,·ã,¹ã,³è£¹/₂å“♦ã?«ã?Šã?‘ã,< IP ãf?ãf¹/₄ã,ãf§ãf³

6ï¹/₄IPv6ï¹/₄‰ãf’ã,±ãffãf^ã‡!ç?†æ©Ýèf¹/₂ã?®è,,†å¹/₄±æ€§ã?«ã,^ã,Šã€?è^“¹/₄ã?•ã,CÆã?|ã?„ã?¶

IPv6

ãf^ãf©ãf•ã,£ãffã,¬å‡!ç?†ã,’å?œæ¢ã?—ã€?ãf‡ãf?ã,¤ã,¹ã?«ã,µãf¹/₄ãf”ã,¹å|“å®³ï¹/₄DoSï¹/₄‰çŠ¶æ

ã?“ã?®è,,†å¹/₄±æ€§ã?¬ã€?è©²å½“ãf‡ãf?ã,¤ã,¹ã?«é€?ä¿¡ã?•ã,CÆã,<å·§ã|™ã?«ç°å·¥ã?•ã,CÆã?¶

IPv6

ãf?ã,¤ãf?ãf¹/₄æžçç’çï¹/₄NDï¹/₄‰ãf’ã,±ãffãf^ã,’è©²å½“ãf‡ãf?ã,¤ã,¹ã?«é€?ä¿¡ã?™ã,<ã?“ã?“ã?§ã

IPv6 ãf^ãf©ãf•ã,£ãffã,¬å‡!ç?†ã,’å?œæ¢ã?—ã?|ã€?ãf‡ãf?ã,¤ã,¹ã?§ DoS

çŠ¶æ...<ã,‘å¼?ã?èµ·ã?“ã?™å?¬èf¹/₂æ€§ã?CÆã?ã,Šã?¾ã?™ã€,

ã?“ã?®è,,†å¹/₄±æ€§ã?¬ã,·ã,¹ã,³å?œœ‰ã?®ã,,ã?®ã?§ã?¬ã?ã,Šã?¾ã?»ã,“ã€,ã?“ã?®ã,^ã?†

<https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20160525-ipv6>

è©²å¹½“è£¹½å“◆?

Cisco Bug ID

[Search Tool](#)

è,,†å¼±æ€§ã®ã¢,ã<è£½å“?

Cisco IOS XR, Cisco IOS XE, Cisco NX-OS, Cisco ASA, Cisco StarOS

æ³Í¹/4šå°“ã♦ã♦ã♦ã♦”ã,,1ã♦¤ã♦®ã,¤ãf³ã,¿ãf¼ãf•ã,§ã,¤ã,¹ã♦§ã,ºãfãf¼ãf♦ãf«IPv6ã,¢ãf%oãf¬ã,¹  
ã,¢ãf%oãf¬ã,¹ã♦®ã♦¿ã♦Œè“å®šã♦•ã,Œã€♦IPv6  
ãf^ãf©ãf•ã,Fãffã,¬ã,’å‡|ç♦†ã♦—ã♦|ã♦„ã,«e©²å½“ãf‡ãf♦ã,¤ã,¹ã♦—ã€♦ãf¬ã,¤ãf¤ 2  
éš£æŽ¥æ”»æ’fè€...ã♦«ã,^ã♦£ã♦|ã♦®ã♦¿ã€♦å·§å|™ã♦«ç°å·¥ã♦•ã,Œã♦Ýã'ã,±ãffãf^ã,’ä½¿ç”

è©²å½“ã?™ã,<ã,½ãf•ãf^ã,|ã,sã,c

ãf<sup>a</sup>ãf<sup>a</sup>ãf<sup>1/4</sup>ã, <sup>1</sup>ã «ã ?» ã „ã ? | ã ? - ã € ? ã ? "ã ? ®ã, çãf%oãf ã, ã, ¶ãf<sup>a</sup>ã ? ®ã € ä? ®æFæ, ^ã ? ã, ½ã

æ¬;ã®ã,·ã,¹ã,³è£½å“ã®ã®—ã€®è©²å½“ãƒ¤ãƒ¤ãƒ¼ã,¹ã® Cisco IOS XR  
ã,½ãƒ•ãƒ^ã,|ã,§ã,¢ã,’å®Ýè¡Œã—ã€®å°ã®ã®ã®”ã,, 1  
ã®¤ã®ã®ã,¤ãƒ³ã,¿ãƒ¼ãƒ•ã,§ã,¤ã,¹ã®§ IPv6  
ã®Œæœ‰åŠ¹ã®«ã®•ã,Œã®|ã®„ã,<ã®`å®^ã®«ã€®ã®”ã®®è„†å¼±

- Cisco 12000
  - Cisco ASR 9000
  - Cisco Carrier Routing System
  - Cisco Network Convergence System 4000
  - Cisco Network Convergence System 6000

„**æ**♦“**æ**, **Œ****æ**, **%****æ**♦**®****æf**—**æf****c****æffæf**^**fæf**•**æ**, **C****æf**^**½æf** **æ**♦**®****æ**♦**™****æ**♦**¹æ**♦**!****æ**♦**®****æ**, **œ****æf**—**æ**♦**®****æf****c****æ**, **¤****æf**^**³æ**, **«****æf**^**½æf****%****æ**♦**Œ****æ**♦**æ**♦**“****æ**♦**®****è**, **†****å**^**½±æ€§****æ**♦**®****å**^**½±é****ÿ****æ**, **’****å**^**—****æ**♦**’****æ**♦**¾æ**♦**™****æ**,

áf‡äf♦ä,¤ä,¹ä♦Œè©²å½“äf¤äf¤äf¼ä,¹ä♦® Cisco IOS XR  
ä,½äf•äf^ä,|ä,§ä,çä,’å®Ýè;Œä♦—ä♦|ä♦„ä♦|ä€♦IPv6  
ä♦Œæœ‰åŠ¹ä♦«ä♦•ä,Œä♦|ä♦„ä,«ä’å♦^ä€♦ç®¡ç♦†è€...ä  
ä,¤äf³ä,{äf¼äf•ä,§ä,¤ä,¹i¼^CLIi¼‰ooä♦§ show ipv6 interface brief  
ä,³äfžäf³äf‰ooä,‘ä½ç”“ä♦™ä,<ä♦“ä♦”“ä♦§ä€♦IPv6  
ä,çäf‰ooäf~ä,¹ä♦Œå‰o²ä,Šå½“ä♦|ä,%oä,Œä♦Ýä,¤äf³ä,{äf  
IOS XR ä,½äf•äf^ä,|ä,§ä,çä♦Œå®Ýè;Œä♦•ä,Œä€♦IPv6  
ä♦Œæœ‰åŠ¹åŒ-ä♦•ä,Œä♦|ä♦„ä,<äf‡äf♦ä,¤ä,¹ä♦§ä♦®ä,

<#root>

RP/0/RP0/CPU0:router#

```
show ipv6 interface brief
```

```
<!output omitted>
GigabitEthernet0/2/0/0 [Up/Up]
fe80::212:daff:fe62:c150
202::1
```

```
RP/0/RP0/CPU0:router(config)# interface GigabitEthernet0/2/0/0
```

```
RP/0/RP0/CPU0:router(config-if)# ipv6 enable
```

Cisco IOS XR 1/2af•af^ã,|ã,§ã,¢  
af^ã,af^ã,af^ã,1ã,§ã,®Ýè;Œã,•ã,Œã,|ã,„ã,  
af^ã,af^ã,af^ã,1ã,§ã,IPv6 af^ã,µaf^ã,f^ã,•ã,Œã,|ã,„ã,^ã,„ã,å`^ã,€ show ipv6

interface brief æ,³ãfžäf³äf‰oã,’ä½ç””ã♦™ã,«ã♦”ã,“ãf©ãf¼  
 ãf;ãffä,»ãf¼ã,ã♦CEç”Ýæ^♦ã♦•ã,CEã♦¾ã♦™ã€,ãf†äf♦ã,¤ã,¹ã♦§ IPv6  
 ã♦CEæœ‰oåŠ¹åŒ-ã♦•ã,Œã♦|ã♦,,ã♦„ã♦,å’å♦^ã♦«ã€♦ show ipv6 interface brief  
 æ,³ãfžäf³äf‰oã,’ä½ç””ã♦™ã,«ã♦”ã€♦IPv6  
 æ,Cãf‰oãf-ã,¹ã,’ä½ç””ã♦™ã,«ã,¤ãf³ã,¿ãf¼ãf•ã,Sã,¤ã,¹ã♦”èj”ç¤ºã♦•ã,CEã♦¾ã♦»ã,“ã€,ã♦©

## Cisco IOS æ,½ãf•ãf^ã,¡ã,§ã,¢

è©²å½“ãfªãfªãf¼ã,¹ã♦® Cisco IOS æ,½ãf•ãf^ã,¡ã,Sã,Cã,’å®ÝèjŒã♦—ã♦|ã♦,,ã♦|ã€♦1  
 ã♦¤ä»¥ä,Šã♦®ã,¤ãf³ã,¿ãf¼ãf•ã,Sã,¤ã,¹ã♦§ IPv6  
 ã♦CEæœ‰oåŠ¹ã♦«ã♦•ã,Œã♦|ã♦,,ã,«ã,ã,¹ã,³è£½å”♦ã♦—ã€♦ã♦“ã♦®è,,†å½±æ€§ã♦®å½±éÝ;ã  
 ã♦—æœ‰oåŠ¹åŒ-ã♦•ã,Œã♦|ã♦,,ã♦¾ã♦»ã,“ã€,

### IPv6 æ♦CE 1

ã♦¤ä»¥ä,Šã♦®ã,¤ãf³ã,¿ãf¼ãf•ã,Sã,¤ã,¹ã♦§æœ‰oåŠ¹ã♦«ã♦ºã♦£ã♦|ã♦,,ã,«ã♦<ã♦©ã♦†ã♦<ã♦  
 CLI æ♦§ show running-config | include  
 ipv6.(enable|address)ç‰¹æ”©EXECæ,³ãfžäf³äf‰oã,’ä½ç””ã♦—ã♦¾ã♦™ã€,IPv6  
 ã♦CEæœ‰oåŠ¹åŒ-ã♦•ã,Œã♦|ã♦,,ã,«å’å♦^ã€♦ã,³ãfžäf³äf‰oã♦®å‡ºåŠ›ã♦« ipv6 enable  
 ã♦Šã,^ã♦³ ipv6 address ã♦Œèj”ç¤ºã♦•ã,Œã♦¾ã♦™ã€,

### ä»¥ä,«ã€♦show running-config | include

ipv6.(enable|address)æ,³ãfžäf³äf‰oã,’æ€♦IPv6æ♦Œè”å®šã♦•ã,Œã♦ÝCisco IOS  
 XEæ,½ãf•ãf^ã,¡ã,Sã,Cã,’å®ÝèjŒã♦—ã♦|ã♦,,ã,«ãf†äf♦ã,¤ã,¹ã♦§å®ÝèjŒã♦—ã♦¾ã♦™ã€,

<#root>

Router#

```
show running-config | include ipv6.(enable|address)

ipv6 enable
ipv6 address dhcp rapid-commit
ipv6 address autoconfig
ipv6 address MANAGEMENT ::1FFF:0:0:0:3560/128
ipv6 address 2001:DB8::1/64
```

## Cisco IOS XE æ,½ãf•ãf^ã,¡ã,§ã,¢

æ¬|ã♦®è£½å”♦ã♦—ã€♦è©²å½“ãfªãfªãf¼ã,¹ã♦® Cisco IOS XE  
 æ,½ãf•ãf^ã,¡ã,Sã,Cã,’å®ÝèjŒã♦—ã€♦ãf^ãf©ãf•ã,Fäffä,¬å‡!ç♦†ã,’èjŒã♦†ã,¤ãf³ã,¿ãf¼ãf•ã,Sã,¤ã,  
 1 æ♦¤ã♦§ IPv6

ã♦CEæœ‰oåŠ'ã♦«ã♦ºã♦£ã♦|ã♦,,ã,<ã>^ã€♦ã♦"ã♦®è,,†å½±æ€šã♦®å½±éÝ;ã,'ã♦—ã♦'ã♦

- Cisco 4300 ã,·ãfºãf¹/4ã,º ã,ãf¹/4ãfºã,¹ç¶å♦^åž<ãf»ã,¿
- Cisco 4400 ã,·ãfºãf¹/4ã,º ã,ãf¹/4ãfºã,¹ç¶å♦^åž<ãf»ã,¿
- Cisco ASR 900 ã,·ãfºãf¹/4ã,º ã,çã,ºãfºã,²ãf¹/4ã,·ãf§ãf³ ã,ãf¹/4ãfºã,¹ ãf»ãf¹/4ã,¿
- Cisco ASR 1000 ã,·ãfºãf¹/4ã,º ã,çã,ºãfºã,²ãf¹/4ã,·ãf§ãf³ ã,ãf¹/4ãfºã,¹ ãf»ãf¹/4ã,¿
- ã,·ã,¹ã,³ ã,¬ãf®ã,!ãf‰o ã,ãf¹/4ãfºã,¹ ãf»ãf¹/4ã,¿ 1000V ã,·ãfºãf¹/4ã,º
- Cisco IOS XE ã,½ãfºãfºã,!ã,§ã,çã, ’å®Ý;|CEã♦™ã,<ã,¹ã,¤ãffãf♦

ãf‡ãf•ã,©ãf»ãfºã♦§ã♦—ã€♦IPv6 ã♦—æœ‰oåŠ'åCE—ã♦•ã,CEã♦|ã♦,,ã♦¾ã♦>ã,"ã€,

ã♦"ã♦®è,,†å½±æ€šã♦—ã€♦ã,·ãfºãf¹/4ã,·ã♦«è „ç½®ã♦•ã,CEã♦Ý Embedded Services Processorï¼^ESPï¼‰oã♦ „ãf»ãf¹/4ã^  
ãf—ãfã,»ãffã,µï¼^RPï¼‰oã♦®ç‰o¹å®šã♦®çµ,,ã♦¿å♦^ã,♦ã♦>ã♦«ã♦—ä¾å~ã♦—ã♦¾ã♦>ã,"ã  
ESP ã♦" RP  
ã♦CEã♦©ã♦®ã,^ã♦†ã♦çµ,,ã♦¿å♦^ã,♦ã♦>ã♦§ã,,ã€♦ã♦"ã♦®è,,†å½±æ€šã♦®å½±éÝ;ã,'ã♦—

## IPv6 ã♦CE 1

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CLI ã♦§ show running-config | include

ipv6.(enable|address)ç‰o¹æ„©EXECã,³ãfžãf³ãf‰oã, 'ä½ç„"ã♦—ã♦¾ã♦™ã€,IPv6  
ã♦CEæœ‰oåŠ'åCE—ã♦•ã,CEã♦|ã♦,,ã,<ã>^ã€♦ã,³ãfžãf³ãf‰oã♦®å‡ºåŠ;ã♦«ã€CE ipv6  
enableã♦ã♦¾ã♦Ýã♦—ã€CEipv6 addressã♦ã♦CEè; „ç¤ºã♦•ã,CEã♦¾ã♦™ã€,

ä»¥ä,ã♦«ã€♦ show running-config | include

ipv6.(enable|address)ã,³ãfžãf³ãf‰oã, 'ã€♦IPv6ã♦CEè „å®šã♦•ã,CEã♦ÝCisco IOS  
XEã,½ãfºãfºã,|ã,§ã,çã,å®Ý;|CEã♦—ã♦|ã♦,,ã,<ãf‡ãfºã,¤ã,¹ã♦§å®Ý;|CEã♦—ã♦¾ã♦™ã€,

<#root>

Router#

```
show running-config | include ipv6.(enable|address)
```

```
ipv6 enable
ipv6 address dhcp rapid-commit
ipv6 address autoconfig
ipv6 address MANAGEMENT ::1FFF:0:0:0:3560/128
ipv6 address 2001:DB8::1/64
```

## Cisco NX-OS 1/2af•af^a,|a,§a,¢

Cisco NX-OS

1/2af•af^a,|a,§a,¢, 'å®¥è;Œä™ã,«ä™ã»1ä»|ä»®ã,ã,1ã,³èf½å"ä»-ä€äf^äf©äf•ä,£äffä,-ä, 1 ä»§ä»¥ä,Šä»®ã,¤äf^ä,¿äf½äf•ä,§ä,¤ä,1ä»§ IPv6  
ä»Œæœ‰oåŠ1ä»«ä»•ä,Œä»|ä»,,ä,«ä»å»ä»«ä€ä»"ä»®è,,†å½±æ€§ä»®å½±é¥ä,'ä»—ä  
ä»-æœ‰oåŠ1ä»-ä»•ä,Œä»|ä»,,ä»3/4ä»ä,"ä€,

IPv6 ä»Œ 1

ä»§ä»¥ä,Šä»®ã,¤äf^ä,¿äf½äf•ä,§ä,¤ä,1ä»§æœ‰oåŠ1ä»«ä»ä»£ä»|ä»,,ä,«ä»<ä»©ä»—ä»3/4ä»™ä€,IPv6

CLI ä»§ show running-config | include  
ipv6.addressç‰¹æ”ŒEXECä,³äfžäf³äf‰oä, 'ä½ç”ä»—ä»3/4ä»™ä€,IPv6  
ä»Œæœ‰oåŠ1ä»-ä»•ä,Œä»|ä»,,ä,«ä»å»ä»ä,³äfžäf³äf‰oä»®å±ºåŠ»ä»«ä€Œ ipv6  
addressä»ä»Œè; „ç»ä»•ä,Œä»3/4ä»™ä€,

ä»¥ä,«ä»ä€ show running-config | include

ipv6.addressä,³äfžäf³äf‰oä, 'ä€IPv6ä»Œæœ‰oåŠ1ä»Cisco NX-  
OSä,½af•af^a,|a,§ä,¢ä,'å®¥è;Œä»—ä»|ä»,,ä,«äf‡äf»ä,¤ä,1ä»§å»®¥è;Œä»—ä»3/4ä»™ä€,

<#root>

Router#

```
show running-config | include ipv6.address  
ipv6 address 2001:DB8::1/64
```

## Cisco ASA 1/2af•af^a,|a,§a,¢

IPv6 ä»-ä€äf‡äf•ä,©äf«äf^a,§ä»-æœ‰oåŠ1ä»-ä»•ä,Œä»|ä»,,ä»3/4ä»ä,"ä€,Cisco  
ASA ä»3/4ä»¥ä» Cisco ASASM ä»§ IPv6 ä, 'æœ‰oåŠ1ä»«ä»™ã,«ä»-ä€ä»IPv6  
ä»Œæfä»—ä»»å»ä½œä»™ã,«ä»¥ä,«ä»å»ä»ä»ä»»ä,,äf^äf^ä,«äf^äf½ä,«äf«  
ä,çäf‰oäf-ä,1ä»Œè „å®šä»•ä,Œä»|ä»,,ä,«ä»...è|ä»Œä»ä,§ä»3/4ä»™ä€,ä,°äfäf½äf»äf«  
ä,çäf‰oäf-ä,1ä»-ä»„ä,¤äf^ä,¿äf½äf•ä,§ä,¤ä,1ä»§è‡ä»çš,,ä»«è „å®šä»•ä,Œä»3/4ä»™ä€,

Cisco ASA ä»3/4ä»¥ä» Cisco ASASM ä»§ IPv6

ä»Œæœ‰oåŠ1ä»-ä»•ä,Œä»|ä»,,ä,«ä»“ä»-ä»-ä€ä»ç®|ç»†è€...ä»Œ CLI ä»§ show  
ipv6 interface

ä,³äfžäf³äf‰oä, 'ä½ç”ä»—ä»|ä»ä»å»ä»å»Œè;”ä»•ä,Œä,«ä»“ä»-ä»«ä,«ä»£ä»|çç»èä»ä

ã♦¤ã♦®ã,¤ãƒã,¿ãƒ¼ãƒ•ã,§ã,¤ã,¹ï¼å†...éf..ã♦šã,^ã♦³ã¤-éf..ï¼‰ã♦Œè..å®šã♦•ã,Œã€♦IPv6  
ã♦Œæœ‰oåŠ¹åŒ-ã♦•ã,Œã♦Ÿ Cisco ASA ã♦®å‡ºåŠ›ä¾ã,’ç¤ºã♦—ã♦³/4ã♦™ã€,

<#root>

ciscoasa#

show ipv6 interface

outside is up, line protocol is up

IPv6 is enabled, link-local address is fe80::219:2fff:fe83:4f42

No global unicast address is configured

Joined group address(es):

ff02::1

ff02::1:ff83:4f42

ICMP error messages limited to one every 100 milliseconds

ICMP redirects are enabled

ND DAD is enabled, number of DAD attempts: 1

ND reachable time is 30000 milliseconds

ND advertised retransmit interval is 1000 milliseconds

Hosts use stateless autoconfig for addresses.

inside is up, line protocol is up

IPv6 is enabled, link-local address is fe80::219:2fff:fe83:4f43

No global unicast address is configured

Joined group address(es):

ff02::1

ff02::1:ff83:4f43

ICMP error messages limited to one every 100 milliseconds

ICMP redirects are enabled

ND DAD is enabled, number of DAD attempts: 1

ND reachable time is 30000 milliseconds

ND advertised retransmit interval is 1000 milliseconds

Hosts use stateless autoconfig for addresses.

## Cisco StarOS ä,½ãƒ•ãƒ^ã,|ã,§ã,¢

Cisco StarOS ä,½ãƒ•ãƒ^ã,|ã,§ã,¢ã,’å®Ÿè;Œã♦™ã,< Cisco ASR 5000 ä,·ãƒ¤ãƒ¼ã,º

ãƒ‡ãƒ♦ã,¤ã,¹ã♦-ã€^ãƒ©ãƒ•ã,£ãffã,¬å‡'ç♦†ã,’è;Œã♦† 1

ã♦¤ã»¥ã,§ã♦®ã,¤ãƒã,¿ãƒ¼ãƒ•ã,§ã,¤ã,¹ã♦§ IPv6

ã♦Œæœ‰oåŠ¹ã♦«ã♦•ã,Œã♦|ã♦,,ã,<å’å♦^ã♦«ã€♦ã♦“ã♦®è,,†å¼±æ€§ã♦®å½±éŸã,’å♦—ã

ã♦-æœ‰oåŠ¹åŒ-ã♦•ã,Œã♦|ã♦,,ã♦³/4ã♦>ã,“ã€,

IPv6 ã♦Œ 1

ã♦¤ã»¥ã,§ã♦®ã,¤ãƒã,¿ãƒ¼ãƒ•ã,§ã,¤ã,¹ã♦§æœ‰oåŠ¹ã♦«ã♦¤ã♦£ã♦|ã♦,,ã,<ã♦<ã♦@ã♦†ã♦<ã♦

CLI ã♦§ show ipv6 interface summary ¢‰¹æ”Œ EXEC

ã,³ãƒžãƒ³ãƒ‰ã,’ä½ç”ã♦™ã,<ã♦“ã♦”ã♦«ã,^ã,§ç¤ºè^ã♦ã♦§ã♦ã♦³/4ã♦™ã€,IPv6

ã♦Œæœ‰oåŠ¹åŒ-ã♦•ã,Œã♦|ã♦,,ã,<å’å♦^ã♦ã,³ãƒžãƒ³ãƒ‰ã♦®å‡ºåŠ›ã♦« IPv6

ã,¤ãƒ‰ãƒ-ã,¹ã♦Œè;“ç¤ºã♦•ã,Œã♦³/4ã♦™ã€,

æ¬;ã «ã€Cisco StarOS ã,½ãƒ·ã^ã, | ã,ã,çã Œå®Ÿè;Œã •ã,Œã€ IPv6  
ã Œæœ‰åŠ¹åŒ-ã •ã,Œã | ã „ã,<ãƒ†ãƒ ã,¤ã,¹ã §ã ® show ipv6 interface summary  
ã,³ãƒžã,j³ãƒ‰oã ®å‡ºåŠ›ã¾<ã, 'ç¤ºã —ã ¾ã ™ã€,

<#root>

[local]router#

```
show ipv6 interface summary
```

Friday February 21 09:00:07 UTC 2014

| Interface Name | Address/Mask   | Port          | Status |
|----------------|----------------|---------------|--------|
| int1_test_v6   | 2001:db8::1/64 | 20/1 vlan 122 | UP     |
| int2_test_v6   | 2001:db8::2/64 | 21/1 vlan 122 | UP     |
| int3_test_v6   | 2001:db8::3/64 | 22/1 vlan 122 | UP     |
| int4_test_v6   | 2001:db8::4/64 | 23/1 vlan 130 | UP     |

Cisco IOS XR 1/2af•af^a, |a, §a, ¢ af^aaf^af^1/4a, ¹a ♦®å^¤å^¥

show version

Cisco IOS XR یافته‌های سیستمی را در فایل Cisco IOS XR Software معرفی کرد. این فایل شامل سیستم‌یابی، پردازشگر مدارهای مخصوص، پردازشگر مدارهای شبکه و پردازشگر مدارهای مخصوص است. این فایل می‌تواند برای ایجاد سیستم‌یابی، پردازشگر مدارهای مخصوص، پردازشگر مدارهای شبکه و پردازشگر مدارهای مخصوص است.

Cisco IOS XR 4.1.0

mbihfr-rp.vm 1.0.5.0, 2018-01-10 10:00:00+00:00 show version

á,³ãfžãf³ãf‰ã⌚®å‡ºåŠ›æ¾‹ã,'c¤ºã⌚—ã⌚³/4ã⌚™ã€,

<#root>

RP/0/RP0/CPU0:router#

show version

Mon May 31 02:14:12.722 DST

Cisco IOS XR Software, Version 4.1.0  
Copyright (c) 2010 by Cisco Systems, Inc.

ROM: System Bootstrap, Version 2.100(20100129:213223) [CRS-1 ROMMON],

```
router uptime is 1 week, 6 days, 4 hours, 22 minutes
System image file is "bootflash:disk0/hfr-os-mbi-4.1.0/mbihfr-rp.vm"
```

cisco CRS-8/S (7457) processor with 4194304K bytes of memory.  
7457 processor at 1197Mhz, Revision 1.2

Cisco IOS 1.2af•af^a,|a,§a,c af^aaf^aaf^1/4a,1a♦®å^¤å^¥

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Cisco IOS ã,½ãf•ãf^ã,|ã,šã,ç  
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show version ã,³äfžäf³äf%oã,’ä½¿ç”ã♦—ã€♦è¡”ç¤ºã♦•ã,Œä,„ã,·ã,¹äftäf  
äf♦äfšäf½ã,’å♦,ç...šã♦™ã,„ã♦“ã♦”ã♦“ã♦«ã,^ã,šççºè^ã♦ã♦šã♦♦ã♦¾ã♦™ã€,äf‡äf♦ã,¤ã,¹ã♦  
Cisco IOS ã,½ãf•ãf^ã,|ã,šã,çã,’å®Ýè;Œä♦—ã♦|ã♦„ã,„å`å`^ã€♦ã,·ã,¹äftäf  
äf♦äfšäf½ã♦«ã€Œ Cisco Internetwork Operating System Softwareã€♦ã,,ã€ŒCisco IOS  
Softwareã€♦ã♦”ã♦@ã♦@äf‡äf,ã,¹äf^ã♦Œè¡”ç¤ºã♦•ã,Œä♦¾ã♦™ã€,ã,«äffã,³å†...ã♦«ã,¤ãf;äf½ã,  
IOS  
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äf‡äf♦ã,¤ã,¹ã♦šã♦~ã€♦ show version  
ã,³äfžäf³äf%oã,’ä,µf♦äf½äf^ã♦—ã♦|ã♦„ã♦”ã♦  
ã♦«ã♦£ã♦Ýã,šã€♦å^¥ã♦®å‡ºåŠ›ã♦Œè¡”ç¤ºã

æ¬;ã®ä¾<äæ¬;ã€Cisco IOS ã½ãf·ãf^ã, |ã, ãsã, ç ãfªãfªãf¼ã, ¹ãŒ  
15.5(2)T1ã€◊ã, ãf^ãf¼ã«ã◊•ã, œã◊Ýã, ãfjãf¼ã, å◊◊ã◊Œ C2951-UNIVERSALK9-  
M ã◊Ñã◊, ã, <ã, ·ã, ¹ã, ³è£½å“◊ã, ‘ç¤ºã◊—ã◊|ã◊„ã◊¾ã◊™ã€,

<#root>

Router>

show version

Cisco IOS Software, C2951 Software (C2951-UNIVERSALK9-M), Version 15.5(2)T1, RELEASE SOFTWARE (fc1)  
Technical Support: <http://www.cisco.com/techsupport>  
Copyright (c) 1986-2015 by Cisco Systems, Inc.  
Compiled Mon 22-Jun-15 09:32 by prod\_rel\_team

show version

Cisco IOS XE 1.2.0-12 Cisco IOS XE Software  
ã€ «ã ®ãftã, 1.2.0-12 Cisco IOS XE Software

Cisco IOS XE 3.6.2S1/4 Cisco IOS 15.2(2)S2

show version

Report 11

Cisco IOS Software, IOS-XE Software (PPC\_LINUX\_IOSD-ADVENTERPRISEK9-M), Version 15.2(2)S2, RELEASE SO  
Technical Support: <http://www.cisco.com/techsupport>  
Copyright (c) 1986-2012 by Cisco Systems, Inc.  
Compiled Tue 07-Aug-12 13:40 by mcpree

## Cisco NX-OS 1.1.1.1

show version

Cisco NX-OS 1.1(2)F3 Cisco Nexus Operating System (NX-OS)  
Software 1.1(2)F3 Copyright (c) 2010 Cisco Systems, Inc.

æ¬|ã◆«ã€◆Cisco NX-OS æ½ãƒ•ãƒ^ã, | ã,§ã,ç ãƒªãƒªãƒ¼ã,¹ 7.1(1)N1(1)

<#root>

#

show version

Cisco Nexus Operating System (NX-OS) Software  
TAC support: <http://www.cisco.com/tac>  
Documents: [http://www.cisco.com/en/US/products/ps9372/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps9372/tsd_products_support_series_home.html)  
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other third parties and are used and distributed under license.  
Some parts of this software are covered under the GNU Public  
License. A copy of the license is available at  
<http://www.gnu.org/licenses/gpl.html>.

Software  
BIOS: version 3.6.0  
loader: version N/A  
kickstart: version 7.1(1)N1(1)  
system: version 7.1(1)N1(1)

## Cisco ASA 介绍

Cisco ASA 是一款高性能的防火墙和安全网关，适用于企业、政府和教育机构。它提供了全面的安全功能，包括入侵防御系统（IPS）、反病毒、反垃圾邮件、内容过滤和高级威胁防护。ASA 支持广泛的协议，如 IPv4 和 IPv6，以及 SSL/TLS、SSH 和 IPsec 等加密协议。它还支持多线程处理，能够处理高带宽的数据流。ASA 的管理界面可以通过命令行界面（CLI）或图形用户界面（GUI）进行访问，方便用户进行配置和监控。ASA 还支持自动故障转移和冗余电源，确保系统的高可用性。

```
<#root>  
ciscoasa#  
show version | include Version
```

Cisco Adaptive Security Appliance Software Version 8.4(1)  
Device Manager Version 6.4(1)

## Cisco ASDM

ASDM 是 Cisco 提供的一个图形化管理界面，用于配置和监控 Cisco ASA 设备。通过 ASDM，管理员可以轻松地设置防火墙规则、配置策略路由、管理安全策略和查看设备状态。ASDM 支持多种协议，包括 IPv4、IPv6、SSL/TLS 和 IPsec。它还提供了丰富的日志和报表功能，帮助管理员快速定位和解决问题。ASDM 可以通过 Web 浏览器或命令行界面（CLI）进行访问，具有良好的用户体验和易用性。

## Cisco StarOS 介绍

Cisco StarOS 是 Cisco 提供的一种专为路由器设计的操作系统，主要应用于企业级和运营商级的广域网（WAN）连接。StarOS 支持多种协议，包括 OSPF、BGP、IGP 和 MPLS，能够提供高效的路由选择和流量工程。它还支持 QoS、防火墙和入侵检测等功能。StarOS 的管理界面可以通过命令行界面（CLI）或图形用户界面（GUI）进行访问，方便用户进行配置和监控。StarOS 支持多线程处理，能够处理高带宽的数据流。它还支持自动故障转移和冗余电源，确保系统的高可用性。

æ¬;ã®ä¾æ¬ã€Cisco StarOS ä½äƒ•äƒ^ä, |ã,§ä,ç äƒ¤äƒ¤äƒ¼ä,¹ 15.0 (49328) äŒå®ÝèŒä•ä,Œä |ã„ä,æ¬ä,·ä,¹ä,³èŒ½å“ä,’ç¤ºä—ä |ã„ä,æ¬ä¾ä™,

<#root>

[local<host\_name>#

**show version**

## Active Software:

Image Version: 15.0 (49328)

Image Branch Version: 015.000(001)

Image Description: Production\_Build

Image Date: Tue Apr 23

Boot Image: Unknown

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IPv6

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åžé?¿ç-ã?¬å^©ç"“å?¬èf½ã?«ã?^ã,Šæ¬jç--ã€?Cisco Bugs

Cisco Bug Search Tool

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ãƒã,±ãffãf^ã,’æ<å◆ | ã◆™ã,<ã◆“ã◆”ã◆§ãf«ãf¼ã,¿èfŒå¾Œã◆®ã,¤ãf³ãf•ãf©ã,¹ãf^ãf©ã,¬ãf◆ãf£ãf‡ãf◆ã,¤ã,¹ã,‘ã;◆è·ã◆™ã,<ã◆“ã◆”ã◆©ã€◆ç•ç•å’Œç-ã,‘è→ã◆~ã,<å;...è | ◆ã◆Œã◆,ã,Šã◆¾ã◆™ã€,ã,¤

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Cisco IOS XR ½ƒ•ƒ^ã,|ã,§ã,çã€Cisco IOS ½ƒ•ƒ^ã,|ã,§ã,çã€Cisco IOS XE  
ã,½ƒ•ƒ^ã,|ã,§ã,çã€Cisco NX-OS  
ã,½ƒ•ƒ^ã,|ã,§ã,çã€®ã?™ã?¹ã?|ã?®ãƒªãƒªãƒ¼ã,¹ã?CEã€ã?“ã?®ã,çãƒ%oãƒ?ã,¤ã,¶ãƒªã?«è

Cisco Bugs [Cisco Bug Search Tool](#)

<http://www.cisco.com/go/psirt> Cisco Security Advisories and Responses

Technical Assistance  
Center

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## URL

<https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20160525-ipv6>

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|----------------|--|
| 1.16           | Cisco Bug CSCvb19057 ã♦Šã,^ã³ CSCva17794 ã,'è½åŠ ã€,ã,¹ãftãf¼ã,¿ã,¹ã,'æœ€ç |
| 1.15           | Cisco bug CSCva94139ã♦ CSCva61877 ã,'è½åŠ                                  |
| 1.14           | Cisco bug CSCva3353 ã,'è½åŠ  |
| 1.13           | Cisco bug CSCva39982 ã,'è½åŠ   |
| 1.12           | æ½œåœ”çš,,ã♦³ç·©å’Œç-ã♦«é-çã♦™ã,<æf...å±ã,'ã♦«ã,€ã♦Ýã,♦æ ,è ♦ã♦Šã,^ã       |
| 1.11           | èª¿æÝ»ã,ã♦®è£½å“♦ã♦Šã,^ã♦³ã¿®æ£æ,^ã♦¿ã,½ãf•ãf^ã, ã,§ã,çã♦«é-çã♦™ã,<        |
| 1.10           | ã¿®æ£æ,^ã♦¿ã,½ãf•ãf^ã, ã,§ã,çã♦«é-çã♦™ã,<æf...å±ã,'æ’æ-°ã€,                |
| 1.9            | ã¿®æ£æ,^ã♦¿ã,½ãf•ãf^ã, ã,§ã,çã♦«é-çã♦™ã,<æf...å±ã,'æ’æ-°ã€,                |
| 1.8            | èª¿æÝ»ã,ã♦®è£½å“♦ã♦Šã,^ã♦³è„†å¼±æ€§ã♦Œå~åœ”ã♦™ã,<è£½å“♦ã♦«é-çã             |
| 1.7            | ã¿®æ£æ,^ã♦¿ã,½ãf•ãf^ã, ã,§ã,çã♦«é-çã♦™ã,<æf...å±ã,'æ’æ-°ã€,                |

| <b>ãf♦ãf%4ã,ãf§ãf³</b> |   |
|------------------------|---|
| 1.6                    | è^ãæÝ»ã,ã♦®è£½å“♦ã♦«é-çã♦™ã,<æf...å±ã,'æ›æ-°ã€,                       |
| 1.5                    | ã_®æfæ,^ã♦¿ã,½ãf•ãf^ã, ã,§ã,çã♦«é-çã♦™ã,<æf...å±ã,'æ›æ-°ã€,           |
| 1.4                    | è^ãæÝ»ã,ã♦®è£½å“♦ã♦Šã,^ã♦³è,,†å½±æ€§ã♦Œå~åœ..ã♦™ã,<è£½å“♦ã♦«é-çã      |
| 1.3                    | æ½œåœ..çš,,ã♦^ã·©å'Œç-ã♦«é-çã♦™ã,<æf...å±ã,'å♦«ã,€ã♦Ýã,♦æ ,è ♦ã♦Šã,^ã |
| 1.2                    | è^ãæÝ»ã,ã♦®è£½å“♦ã♦Šã,^ã♦³è,,†å½±æ€§ã♦Œå~åœ..ã♦™ã,<è£½å“♦ã♦«é-çã      |
| 1.1                    | è^ãæÝ»ã,ã♦®è£½å“♦ã♦Šã,^ã♦³è,,†å½±æ€§ã♦Œå~åœ..ã♦™ã,<è£½å“♦ã♦«é-çã      |
| 1.0                    | å^♦å>žå...¬é-<ãf^ãf^ãf%4ã, <sup>1</sup>                               |

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## 翻訳について

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