Ï _Ð

ßM6,X/ _ ÚCY Ê ÊKÈ n

radius-server retransmit	n RADIUS y [G¡ ¥ õ D
radius-server key	n RADIUS ,X E • · ¸
radius-server timeout	n RADIUS CY Ê ÊKÈ

11.1.7 **radius attribute**

radius ttribute{< *id*> | **down-rate-limit | dscp | mac-limit | up-rate-limit} vendor-type** <*type*>

no radius attribute {< *id*>|**down-rate-limit | dscp | mac-limit | up-rate-limit} vendor-type**

Ï – DAÈ â Ð

id Ö s6Ñ id <1-255>

type Ö /• Ý 2 û type

Ï5 ,Õ ™ ‰ Ð

¾ Í å Ì/• Ý 2 ûAš ÿT¬AxG!5B

id	s6Ñ	type
1	maxdown-rate	1
2	qos	2
3	userip	3
4	vlanid	4
5	version to client	5
6	netip	6
7	username	7
8	password	8
9	file-diractory	9
10	file-count	10
11	file-name-0	11
12	file-name-1	12
13	file-name-2	13
14	file-name-3	14
15	file-name-4	15

16	maxup-rate	16
17	version to server	17
18	flux-max-high32	18
19	flux-max-low32	19
20	proxy-avoid	20
21	dailup-avoid	21
22	ip privilige	22
23	login privilige	42

=) ™ ‰

id	s6Ñ	type
1	maxdown-rate	76
2	qos	77
3	user ip	3
4	vlan id	4
5	version to client	5
6	netip	6
7	use name	7
8	password	8
9	file-diractory	9
10	file-count	10
11	file-name-0	11
12	file-name-1	12
13	file-name-2	13
14	file-name-3	14
15	file-name-4	15
16	max	

19	flux-max-low32	19

11.2 RADIUS ¤ ´ w W

debug radius [**event** | **detail**]

show radius server

show radius parameter

show radius vendor-specific

11.2.1 **debug radius**

' Ô RADIUS A×A© Ô G ÄA¹ Q ¸,Xno 6 ã GKÁ RADIUS A×A© Ô G Ä

debug radius [**event** | **detail**]

no debug radius [**event** | **detail**]

Ï – DAÈ â Ð

´ – D ê GK + Ä

Ï Q ¸ õ ã Ð

(M EXEC G!5B õ ã Ä

11.2.2 **show radius server**

/ RADIUS á u <G!5B ™ ‰ Ä

show radius server

Ï – DAÈ â Ð

´ Ä

Ï5 ,Õ ™ ‰ Ð

´

Ï Q ¸ õ ã Ð

(M õ ã Ä

Ï S*ü Û + Ð

S*üA¹ Q ¸ / radius á u <,XG!5B ™ ‰ Ä

Ï _ Ð

```
Ruijie# show radius server
server ip : 192.168.4.12
acct  port: 23
authen  port: 77
```

```
16    max up-rate            75
17    version to server      17
18    flux-max-high32        18
19    flux-max-low32         19
20    proxy-avoid            20
21    dailup-avoid           21
22    ip privilige           22
23    login privilige        42
24    limit to user number   50
```

Ï¸Ì G Q ¸ Ð

Q ¸	AÈ â
radius-server host	n RADIUS] < á u <,X
radius-server retransmit	n RADIUS y [G¡ ¥ õ D
radius-server key	n RADIUS ,X E • · ¸
radius-server timeout	n RADIUS CY Ê ÊKÈ

5 ,ÕG!5B	´
Q ¸ õ ã	TACACS+ á u <4˜G!5B õ ã Ä
S*ü Û Đ	Û n ,X TACACS+ á u <4˜ Û n vrf á + Ä

G!5B _	ßM6/ _ TACACS+ á u <4˜ Û n VRF á + vpn1 Ö
	`Ruijie(config)# aaa group server tacacs+ tac1`
	`Ruijie(config-gs-tacacs+)# server 1.1.1.1`
	`Ruijie(config-gs-tacacs+)# ip vrf forwarding vpn1`

,Ì G Q ¸

Q ¸	£EÄ
aaa group server tacacs+	G!5BTACACS+ á u <4˜
server	G!5BTACACS+ á u <4˜,X server ë ><

G ÄAÈ â	´

Q ¸ Z Æ

(Ë	AÈ â
-	-

12.1.4 server(TACACS+)

!8 Q ¸G!5B TACACS+ á u <4˜ ,X á u < Ä

server {*ip-address* | *ipv6-address*}

no server {*ip-address* | *ipv6-address*}

– DAÈ â

– D	£EÄ
ip-address	TACACS+ á u <4˜ ,X á u < IP
ipv6-address	TACACS+ á u <4˜ ,X á u < IPV6

5 ,ÕG!5B	´
Q ¸ õ ã	TACACS+ á u <4˜G!5B õ ã Ä
S*ü Û Đ	G!5B!8 Q ¸ ! È ™NOEîE› Q ¸ aaa group server tacacs+ E¯ 9 TACACS+4˜G!5B õ ã Ä TACACS+ á u <4˜ G!5B,X á u < È ™NO ü < G!5B õ ã ß ÈEîE› tacacs-server

	host Q ¸G!5B!8 á u < Ä á u <4˜ ,XG!5B,X TACACS+ á u < È' Ô þ á u <"u Ý ¡ h Ê Èî å ß Ô þ á u < ¥EÕAË" Ä

G!5B –	ßM6,X/ _G!5B Ô þ á + tac1 ,X TACACS+ á u <4˜ È J è üA¼4˜ G!5B Ô þ 1.1.1.1 ,X TACACS+ á u < Ö
	`Ruijie(config)# aaa group server tacacs+ tac1`
	`Ruijie(config-gs-tacacs+)# server 1.1.1.1`

,Ì G Q ¸

Q ¸	£EÄ
aaa group server tacacs+	G!5BTACACS+ á u <4˜
ip vrf forwarding	G!5BTACACS+ á u <4˜ Õ,X VRF á +

G ÄAÈ â ´

Q ¸ Z Æ

(Ë	AÈ â
-	-

12.1.5 tacacs-server host

!8 Q ¸G!5B TACACS+ á u < IP Ä

tacacs-server host {*ip-address* | *ipv6-address*} [port *integer*] [timout integer] [key *string*]

no tacacs-server host {*ip-address* | *ipv6-address*}

– DAÈ â

– D	£EÄ
Ip-address	TACACS+] < á u < ,X IP Ä
ipv6-address	TACACS+] < á u < ,X IPV6 Ä
port *integer*	TACACS+EîA*ƒ* S*ü,X TCP 0Ã ·
timeout *integer*	TACACS+ ,XCY Ê ÊKÈ Ä
key *string*	TACACS+ client â á u < E •,X šJy Ä

5 ,ÕG!5B "u Ý Û n ,X TACACS+ Ä

Q ¸ õ ã < G!5B õ ã Ä

S*ü Û Ð Z S *ü TACACS+ r)„ AAA] < á u È ™NO n TACACS+] < á u < Ä | Ã ¹ S*ü

tacacs-server host Q ¸ n Ô þ ê î þ TACACS+] < á u < Ä

G!5B _

-	-

5 ,ÕG!5B ´

Q ¸ õ ã (M õ ã Ä

S*ü Û Đ S*üA¹ Q ¸ / ` Ø TACACS+ á u <,X x fE¤> ™ ‰ Ä

G!5B _

```
Ruijie# show tacacs
Tacacs+ Server : 172.19.192.80/49
Socket Opens: 0
Socket Closes: 0
Total Packets Sent: 0
Total Packets Recv: 0
Reference Count: 0
```

,Ì G Q ¸

Q ¸	£EÄ
tacacs-server host	n TACACS+] < á u <,X

G ÄAÈ â ´

Q ¸ Z Æ

(Ë	AÈ â
-	-

T ƒ4ì

Ú ` Ÿ4¡ ÃM4 û Q ¸ `,Ì G Y • È Ù À ¹ ß0´8V Ö

1. G!5BVRRP Q ¸
2. G!5BMULTI-LDP Q ¸

Ï _Ð

ßM6,X _ $ VRRP4˜ 1 A’5B ZP`A• · ¸ Ä

```
vrrp 1 authentication x30dn78k
```

Ï,Ì G Q ¸ Ð

Q ¸	,Â,X

show Q¸rrp 1

G!5BVRRP Q ¸

1.1.6 **vrrp priority**

Ï5 ,ÕA'5B Ð

5 ,Õ ™ ‰ ß È2Ï4³ ü y · Þ"u Ý *ü VRRP s6Ñ Ä Ô º *ü VRRP s6Ñ È2Ï4³T¬Ax A' Û,XEî ¥EÕKÈLh 1 /¦ Ä

Ï Q ¸ õ ã Ð

y ·G!5B õ ã

Ï S*ü Û + Ð

V p ' !A' Û ä VRRP4˜ ,X A' Û ÈW Ú ¹A' n,XKÈLh ¥EÕ VRRPEî 9Eî 7¾ Å,X VRRP(Š Õ Ã ì 4{ ¹ ž J W µ C Ä

Ï _ Ð

ßM6,X _ $ ÈA'5B VRRPEî ¥EÕKÈLh 4 /¦ Ä

```
vrrp 1 timers advertise 4
```

Ï,Ì G Q ¸ Ð

Q ¸	,Â,X
Ruijie(config-if)# **vrrp** *group* **ip** *ipaddress* [**secondary**]	*ü VRRP s6Ñ JA'5B <. ³A' Û,X IP
Ruijie(config-if)# **vrrp group timers learn**	*ü n Ê < : 4 s6Ñ

1.1.8 vrrp timers learn

Q ¸ *ü n Ê < : 4 s6Ñ È J no 6 ã Ú GKÁA¹ s6Ñ Ä

vrrp *group* **timers learn**

no vrrp *group* **timers learn**

Ï – DAÈ â Ð

group VRRP

4 s6Ñ â È W î ¢ A' Û,X VRRPEî : 4 VRRPEî ¥EÕKÈLh È J+ !8 9Au1k MasterA' Û KÈLh È5à á S*ü7¾ Å A'5B,X VRRPEî ¥EÕKÈLh 9Au1k Ä Q ¸ Ã ¹ r)„ â MasterA' Û,X VRRPEî ¥EÕ n Ê < à!9 Ä

Ï _ Ð

ßM6,X _ $ ü VRRP4˜ 1 Þ *ü Z n Ê < : 4 s6Ñ Ä

```
vrrp 1 timers learn
```

Ï,Ì G Q ¸ Ð

Q ¸	,Â,X
Ruijie(config-if)# **vrrp** *group* **ip** *ipaddress* [**secondary**]	*ü VRRP s6Ñ JA'5B<. ³A' Û,X IP
Ruijie(config-if)# **vrrp***group* **timers advertise** [**msec**] *interval*	A'5B VRRPEî ¥EÕKÈLh

1.1.9 vrrp track

*ü VRRP,X y ·C³Cþ S*ü **vrrp** *group* **track** *interface-type number* Q ¸ È *ü VRRP ,X IP C³Cþ s6Ñ ÈS*ü **vrrp** *group* **track** *ip-address* Q ¸ È**vrrp** *group* **track bfd** Eî E› BFD C³Cþ Û n,XF• IP **È** J **no** 6 ã Ú GKÁA¹ s6Ñ ÄA¹ Q ¸AÁ"© ã V ß Ö

vrrp *group* **track [***interface-type number***| bfd** *interface-type interface-number ipv4-addess*] [*priority*]

vrrp *group* track *ip-address* [interval *interval-value*] [timeout *timeout-value*] [retry *retry-value*] [*priority*]

vrrp *group* **track [***interface-type number***| bfd** *interface-type interface-number ipv4-addess* | *ip-address*]

Ï – DAÈ â Ð

group ÖVRRP4˜ Ë

interface-type Ö >•,¥?š,X y ·2O _

number Ö >•,¥?š,X y · Ë

ipv4-addres Ö>•,¥?š,X IPv4 È h*ü bfd Ê Û îA±,XF•

interval-value Ö v# >•,¥?š,X ú ÃE',X ÊKÈKÈLh Ä V p áA' n È2Ï4³5 ,Õ 3 /¦

timeout-value Ö ø nCY Ê Ã,¥?š,X á ÃE',X ÊKÈ Ä V p áA' n È2Ï4³5 ,Õ 1 /¦

retry-value: .BAx á ÃE',X õ D È V p üE²4Á *retry-value* õFÑ"u Ý h1(È íAx á ÃE' Ä) ! õ D È V p áA' n È2Ï4³5 ,Õ 3 õ Ä

priority Ö >•,¥?š,X y ·(Š Õ ê ÃE'(Š Õ ¬ Ê J VRRP ì 4{ ¬,X z Ä V p áA' n È2Ï4³5 ,Õ 10

Ï5 ,ÕA'5B Ð

5 ,Õ ™ ‰ ß È2Ï4³ ü y · Þ"u Ý *ü VRRP s6Ñ Ä G " *ü VRRP s6Ñ È2Ï4³"u Ý 5 ,Õ Û n,¥?š,X y · ê IP Ä

Ï Q ¸ õ ã Ð

y ·G!5B õ ã

Ï S*ü Û + Ð

Ã ¹ S*ü Q ¸,¥?š Î ·JÒCÃ ÈLÔ?U"¼ ã,X >•,¥?š,X y · ¾ AŒ Ý ÃCÃ+ ,X F Ee y ·(V Routed Port ÈSVI ÈLoopbackÈTunnel1 1) × ê5Ù,¥?š Û n,X IP ú ÃE' È G ú6Ñ ó ping Eî Ä

Ï _ Ð

ü ßM6,X _ $ ÈVRRP 4˜ 1 Í Routed Port Fa1/Ɛ¯> ,¥?š Ä V p Fa1/1JÒCÃ • Ô È VRRP4˜,X ì 4{ £ å 30 × ü Fa1/1,XJÒCÃ 6 á â ÈVRRP4˜ 1 ,X ì 4{ 6 á Ä

```
vrrp 1 track GigabitEthernet 1/1 30
```

#G!5B Û n VRRP 4˜EîE› BFD C³Cþ Û n,XF• 192.168.1.3

```
Ruijie#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Ruijie(config)#interface GigabitEthernet 0/1
Ruijie(config-if)#no switchport
Ruijie(config-if)#ip address 192.168.1.1 255.255.255.0
Ruijie(config-if)#bfd interval 50 min_rx 50 multiplier 3
Ruijie(config)#interface GigabitEthernet 0/2
Ruijie(config-if)#no switchport
Ruijie(config-if)#ip address 192.168.201.17 255.255.255.0
Ruijie(config-if)#vrrp 1 priority 120
Ruijie(config-if)#vrrp 1 ip 192.168.201.1
Ruijie(config-if)#vrrp 1 track bfd GigabitEthernet 0/1 192.168.1.3
30
Ruijie(config-if)#end
```

Ruijie# **debug vrrp errors**	' Ô VRRP ÎJí ¤/ A×A© Ô G

ßM6,X _ $ È*ü ' Ô Z VRRP _ ÊA×A© Ô G Ä

```
Ruijie# debug vrrp events
Ruijie#
VRRP: Grp 1 Event - Advert higher or equal priority
VRRP: Grp 1 Event - Advert higher or equal priority
VRRP: Grp 1 Event - Advert higher or equal priority
```

1.2.4 debug vrrp packets

Q ¸ ' Ô VRRP D B ÙA×A© Ô G È **Jho** 6 ã Ú GKÁA¹A×A© Ô G Ä

debug vrrp packets

no debug vrrp packets

Ï5 ,ÕA'5B Ð

5 ,Õ ™ ‰ ß È2Ï4³"u Ý ' Ô VRRP D B ÙA×A© Ô G Ä

Ï Q ¸ õ ã Ð

(M *ü õ ã

Ï _ Ð

ü ßM6,X _ $ È*ü ' Ô Z VRRP D B ÙA×A© Ô G È ü J / Z VRRP4˜ 1 ,X D B Ù,X õP` ` Ä

```
Ruijie# debug vrrp packets
Ruijie#
VRRP: Grp 2 sending Advertisement checksum DD4D
VRRP: Grp 2 sending Advertisement checksum DD4D
VRRP: Grp 2 sending Advertisement checksum DD4D
```

ü ßM6,X _ $ ¸ *ü ' Ô Z VRRP D B Ù,XA×A© Ô G È ü J / Z VRRP 4˜ 1 D B Ù,X$d IP ¹ ž VRRP4˜ 1 ,X ì 4{ Ä

```
Ruijie# debug vrrp packets
Ruijie#
VRRP: Grp 1 Advertisement priority 120, ipaddr 192.168.201.213
VRRP: Grp 1 Advertisement priority 120, ipaddr 192.168.201.213
VRRP: Grp 1 Advertisement priority 120, ipaddr 192.168.201.213
```

1.2.5 debug vrrp state

Q ¸ ' Ô VRRP(Š Õ,XA×A© Ô G È Jho 6 ã Ú GKÁA¹A×A© Ô G Ä

debug vrrp state

no debug vrrp state

V p á S*ü ÃEÝ – D È Ú / Ý,X VRRP4˜,X ™ ‰ Ä

Ï _Ð

/ Ý,X VRRP4˜ ™ ‰

```
Ruijie# show vrrp
GigabitEthernet 0/0 - Group 1
State is Backup
Virtual IP address is 192.168.201.1 configured
Virtual MAC address is 0000.5e00.0101
Advertisement interval is 3 sec
Preemption is enabled
min delay is 0 sec
Priority is 100
Master Router is 192.168.201.213 , pritority is 120
Master Advertisement interval is 3 sec
Master Down interval is 9 sec
GigabitEthernet 0/0 - Group 2
State is Master
Virtual IP address is 192.168.201.2 configured
Virtual MAC address is 0000.5e00.0102
Advertisement interval is 3 sec
Preemption is enabled
min delay is 0 sec
Priority is 120
Master Router is 192.168.201.217 (local), priority is 120
Master Advertisement interval is 3 sec
Master Down interval is 9 sec
Ruijie#
```

/ VRRP4˜,X V ‰

```
Ruijie# show vrrp brieC122F0E}/U 1 T0.00071.0B
```

Ruijie(config-if)# **vrrp** *group ip ipaddress* [**secondary**]	*ü VRRP s6Ñ JA'5B<. ³A' Û,X IP

1.3.2 show vrrp interface

Q ¸ / Û n y · Þ,X VRRP4˜,X ™ ‰ Ä

show vrrp interface *type number* [**brief**]

Ï – DAÈ â Ð

type Ö y ·,X2O _

number Ö y ·,X c Ë

brief Ö ÃEÝ – D Ä8¹ S*ü Ú / V ‰

Ï Q ¸ õ ã Ð

(M *ü õ ã

Ï _ Ð

ßM6,X _ $ / Z ¹ þ5% · E1/0 Þ,X VRRP ™ ‰

```
Ruijie# show vrrp interface GigabitEthernet 0/0
GigabitEthernet 0/0 - Group 1
State is Backup
Virtual IP address is 192.168.201.1 configured
Virtual MAC address is 0000.5e00.0101
Advertisement interval is 3 sec
Preemption is enabled
min delay is 0 sec
Priority is 100
Master Router is 192.168.201.213 , pritority is 120
Master Advertisement interval is 3 sec
Master Down interval is 9 sec
GigabitEthernet 0/0 - Group 2
State is Master
Virtual IP address is 192.168.201.2 configured
Virtual MAC address is 0000.5e00.0102
Advertisement interval is 3 sec
Preemption is enabled
min delay is 0 sec
Priority is 120
Master Router is 192.168.201.217 (local), priority is 120
Master Advertisement interval is 3 sec
Master Down interval is 9 sec
```

2 ´ MULTI-LDP w W

2.1 ´ ü » w W

2.1.1 clear multi-ldp

ôL8 y ·JÒCÃ(Š Õ UP/DOWN4³Au õ D Ä

clear multi-ldp

– DAÈ â	– D	£EÄ
	-	-

5 ,ÕG!5B	´

Q ¸ õ ã	y ·G!5B õ ã

S*ü Û Ð	´

G!5B _	_ 1 Ö#Ù8 y ·,X î s6ÑJÒCÃ ”# UP/DOWN õ D4³Au Ruijie#**config** Ruijie(config)#**interface gigabitEthernet** 0/1 Ruijie(config-if-GigabitEthernet 0/1)#**clear multi-ldp**

,Ì G Q ¸	Q ¸	£EÄ
	-	-

G ÄAÈ â	-

Q ¸ Z Æ	(Ë	AÈ â
	10.3(4T90)	„ r Q ¸

,Ì G Q ¸	Q ¸	£EÄ
	-	

G ÄAÈ â	-

Q ¸ Z Æ	(Ë	AÈ â
	10.3 Ä4t90 Å	„ r Q ¸

2.2 ‹ ü » w W

2.2.1 show multi-ldp interface

show multi-ldp interface [*interface-name*]

– DAÈ â	– D	£EÄ
	interface-name	y ·2O _ +ID

5 ,ÕG!5B	´

Q ¸ õ ã	(M õ ã

S*ü Û Đ	âM6 áC³ – D Ê È / Ý y ·G!5B,X MULTI-LDP µ C

G!5B _	_ 1 Öshow multi-ldp interface

```
Interface            State    Retry    UpCnt    ICMP
Next-hop
StartTime            Interval Resume   DownCnt  DNS            TCP
================================================================
===============
GigabitEthernet 0/1    DOWN     5       0       192.168.201.1
192.168.201.160
2010-12-23 09:31:03    50       1       0       N/A
192.168.201.160:80

GigabitEthernet 0/3    UP       5       1       192.168.198.1
192.168.78.1
2010-12-23 09:31:03    50       1       0       8.8.8.8
```

f Ô a Â

Ú ` Ÿ4¡ ÃM4 û Q ¸ `,Ì G Y • È Ù À ¹ ß0´8V Ö

1. G!5B,¥ { uAu Q ¸
2. G!5BCPU-LOG Q ¸
3. G!5BK¼L$ Q ¸
4. G!5B2Ï4³ Y ,(Š Õ ¹,ß Q ¸
5. G!5BUSB Q ¸

```
2009-12-18 05:02:10    61%
2009-12-18 05:07:10    61%
2009-12-18 05:12:10    61%
2009-12-18 05:17:10    61%
2009-12-18 05:22:10    61%
2009-12-18 05:27:10    61%
2009-12-18 13:32:10    61%
2009-12-18 13:37:10    61%
2009-12-18 13:42:10    64%
2009-12-18 13:47:10    64%
2009-12-18 14:02:29    61%
2009-12-18 14:07:29    61%
2009-12-18 14:18:45    61%
2009-12-18 14:23:45    61%
2009-12-18 14:28:45    61%
2009-12-18 14:33:45    61%
2009-12-18 14:38:45    61%
2009-12-18 14:43:45    61%
2009-12-18 14:48:45    61%
2009-12-18 14:53:45    61%
2009-12-18 14:58:45    61%

_ 2 Ö ¹,ßA' Û  CPU ,X S*ü ™ ‰
Ruijie#show dev-audit cpu from 2010 1 14 12:00:00
Date & Time           CPU
2010-01-14 12:03:16    0%
2010-01-14 12:08:16    0%
2010-01-14 12:13:16    0%
2010-01-14 12:18:16    0%
2010-01-14 12:23:16    0%
2010-01-14 12:28:16    0%
2010-01-14 12:33:16    0%
2010-01-14 12:38:16    0%
2010-01-14 12:43:16    0%
2010-01-14 12:48:16    0%
2010-01-14 12:53:16    0%
2010-01-14 12:58:16    0%
2010-01-14 13:03:16    0%
2010-01-14 13:08:16    0%
2010-01-14 13:13:16    0%
2010-01-14 13:18:16    0%
2010-01-14 13:23:16    0%
2010-01-14 13:28:16    0%
2010-01-14 13:33:16    0%
```

G!5BCPU-LOG Q ¸

G ÄAÈ â NPE {• Ã ;> Q ¸ È ´ / Y • Ä

Q ¸ Z Æ

(Ë	AÈ â
10.3(4b7)	„ r Q ¸

2 ´CPU-LOG w W

2.1 Á ¯ x ž a Â ü » w W

A'Au Ù À Ý þ Q ¸ Ö

show cpu

cpu-log

show environment

2.1.1 **show cpu**

?U ¹,ß2Ï4³ CPU ý*ü)[µ C ÈAË ;> (M *ü õ ã Q ¸ **show cpu** Ä

show cpu

Ï – DAÈ â Đ

´

Ï5 ,ÕA'5B Đ

+9

Ï Q ¸ õ ã Đ

(M *ü õ ã Ä

Ï S*ü Û + Đ

S*üA¹ Q ¸ Ã ¹ ¹,ß2Ï4³,X CPU ý*ü ™ ‰ È Ù À ÔE¥5 /¦Js Y ÃÔE¥ 1 ÚJs Y ÃÔ E¥5 ÚJs Y2Ï4³,X CPU ý*ü)[È¹ ž!£ þ Ï u Ú ÿ ü ÔE¥ 5 /¦Js Y ÃÔE¥ 1 ÚJs Y Ã ÔE¥5 ÚJs Y,X CPU ý*ü)[1 µ C Ä

Ï _ Đ

ßM6,X/ _ ;> **show cpu** ,X Ô þE¤> 4§ p Ä

```
Ruijie# show cpu
=====================================
    CPU Using Rate Information
CPU utilization in five seconds: 25%
CPU utilization in one minute  : 20%
CPU utilization in five minutes: 10%
  NO   5Sec   1Min   5Min   Process
```

0	0%	0%	0%	LISR INT
1	7%	2%	1%	HISR INT
2	0%	0%	0%	ktimer
3	0%	0%	0%	atimer
4	0%	0%	0%	printk_task
5	0%	0%	0%	waitqueue_process
6	0%	0%	0%	tasklet_task
7	0%	0%	0%	kevents
8	0%	0%	0%	snmpd
9	0%	0%	0%	snmp_trapd
10	0%	0%	0%	mtdblock
11	0%	0%	0%	gc_task
12	0%	0%	0%	Context
13	0%	0%	0%	kswapd
14	0%	0%	0%	bdflush
15	0%	0%	0%	kupdate
16	0%	3%	1%	ll_mt
17	0%	0%	0%	ll main process
18	0%	0%	0%	bridge_relay
19	0%	0%	0%	d1x_task
20	0%	0%	0%	secu_policy_task
21	0%	0%	0%	dhcpa_task
22	0%	0%	0%	dhcpsnp_task
23	0%	0%	0%	igmp_snp
24	0%	0%	0%	mstp_event
25	0%	0%	0%	GVRP_EVENT
26	0%	0%	0%	rldp_task
27	0%	2%	1%	rerp_task
28	0%	0%	0%	reup_event_handler
29	0%	0%	0%	tpp_task
30	0%	0%	0%	ip6timer
31	0%	0%	0%	rtadvd
32	0%	0%	0%	tnet6
33	2%	0%	0%	tnet
34	0%	0%	0%	Tarptime
35	0%	0%	0%	gra_arp
36	0%	0%	0%	Ttcptimer
37	8%	1%	0%	ef_res
38	0%	0%	0%	ef_rcv_msg
39	0%	0%	0%	ef_inconsistent_daemon
40	0%	0%	0%	ip6_tunnel_rcv_pkt
41	0%	0%	0%	res6t
42	0%	0%	0%	tunrt6

43	0%	0%	0%	ef6_rcv_msg
44	0%	0%	0%	ef6_inconsistent_daemon
45	0%	0%	0%	imid
46	0%	0%	0%	nsmd
47	0%	0%	0%	ripd
48	0%	0%	0%	ripngd
49	0%	0%	0%	ospfd
50	0%	0%	0%	ospf6d
51	0%	0%	0%	bgpd
52	0%	0%	0%	pimd
53	0%	0%	0%	pim6d
54	0%	0%	0%	pdmd
55	0%	0%	0%	dvmrpd
56	0%	0%	0%	vty_connect
57	0%	0%	0%	aaa_task
58	0%	0%	0%	Tlogtrap
59	0%	0%	0%	dhcp6c
60	0%	0%	0%	sntp_recv_task
61	0%	0%	0%	ntp_task
62	0%	0%	0%	sla_deamon
63	0%	3%	1%	track_daemon
64	0%	0%	0%	pbr_guard
65	0%	0%	0%	vrrpd
66	0%	0%	0%	psnpd
67	0%	0%	0%	igsnpd
68	0%	0%	0%	coa_recv
69	0%	0%	0%	co_oper
70	0%	0%	0%	co_mac
71	0%	0%	0%	radius_task
72	0%	0%	0%	tac+_acct_task
73	0%	0%	0%	tac+_task
74	0%	0%	0%	dhcpd_task
75	0%	0%	0%	dhcps_task
76	0%	0%	0%	dhcpping_task
77	0%	0%	0%	dhcpc_task
78	0%	0%	0%	uart_debug_file_task
79	0%	0%	0%	ssp_init_task
80	0%	0%	0%	rl_listen
81	0%	0%	0%	ikl_msg_operate_thread
82	0%	0%	0%	bcmDPC
83	0%	0%	0%	bcmL2X.0
84	3%	3%	3%	bcmL2X.0
85	0%	0%	0%	bcmCNTR.0

```
 86     0%     0%     0%    bcmTX
 87     0%     0%     0%    bcmXGS3AsyncTX
 88     0%     2%     1%    bcmLINK.0
 89     0%     0%     0%    bcmRX
 90     0%     0%     0%    mngpkt_rcv_thread
 91     0%     0%     0%    mngpkt_recycle_thread
 92     0%     0%     0%    stack_task
 93     0%     0%     0%    stack_disc_task
 94     0%     0%     0%    redun_sync_task
 95     0%     0%     0%    conf_dispatch_task
 96     0%     0%     0%    devprob_task
 97     0%     0%     0%    rdp_snd_thread
 98     0%     0%     0%    rdp_rcv_thread
 99     0%     0%     0%    rdp_slot_change_thread
100     4%     2%     1%    datapkt_rcv_thread
101     0%     0%     0%    keepalive_link_notify
102     0%     0%     0%    rerp_msg_recv_thread
103     0%     0%     0%    ip_scan_guard_task
104     0%     0%     0%    ssp_ipmc_hit_task
105     0%     0%     0%    ssp_ipmc_trap_task
106     0%     0%     0%    hw_err_snd_task
107     0%     0%     0%    rerp_packet_send_task
108     0%     0%     0%    idle_vlan_proc_thread
109     0%     0%     0%    cmic_pause_detect
110     1%     1%     1%    stat_get_and_send
111     0%     1%     0%    rl_con
112    75%    80%    90%     idle
```

ü ÞM6,X ë>< È Ô ,X 3 > Ú ÿ></ 2Ï4³ ü ÔE¥ 5 /¦Js Ã ÔE¥ 1 ÚJs Ã ÔE¥5 Ú Js Y ,X CPU ý*ü)[™ ‰ Ä Ù À LISR ÃHISR ` Ï u ÅÄ ßM6 í K ',X CPU ý*ü)[Ú × ™ ‰ Ä J È!£ Ô ë,X ÿ V ß Ö

No Ö c Ë

5Sec Ö!£ Ô> ></ ,X Ï u ÔE¥ 5 /¦Js Y,X CPU ý*ü)[

1Min Ö!£ Ô> ></ ,X Ï u ÔE¥ 1 ÚJs Y,X CPU ý*ü)[

5Min Ö!£ Ô> ></ ,X Ï u ÔE¥ 5 ÚJs Y,X CPU ý*ü)[

>< ,X ! 2 > !¨EW(M!^ ÈÚ ÿ></ Ý LISR ,X CPU ý*ü)[` Ý HISR ,X CPU ý *ü)[È ¢1 3 > Ô Ÿ È ></ Ï u,X CPU ý*ü)[Z Ä Ô â Ô> idle 4“/ß,X CPU ý*ü)[ÈC³ Windows ß,X System Idle ProcessÔ È></ 2Ï4³,X0NKÆ(Š Õ Ä ü Þ M6,X _ $ Èidle 4“/ß 5 /¦ Y,X CPU ý*ü)[75% ÈAÈ â ' ! CPU ý*ü)[

2.1.2 cpu-log

?U ¹G!5B CPU ý*ü)[¹ « µ C?º ¥K¼L$, Ã ¹ S*ü **cpu-log** Ä

cpu-*log* *log-limit low_num high_num*

Ï – DAÈ â Ð

log-limit 8× È ¤/ ,X Q ¸0ú

low_num CPU ý*ü)[?º ¥ "K¼L$

high_num CPU ý*ü)[?º ¥P¬K¼L$

Ï5 ,ÕA'5B Ð

T¬Ax ™ ‰ ßA¹P¬K¼L$100%È "K¼L$ 90%Ä

Ï Q ¸ õ ã Ð

< G!5B õ ã Ä

Ï S*ü Û + Ð

S*üA¹ Q ¸ Ã ¹G!5B CPU ý*ü)[¹ « µ C?º ¥P¬ "K¼L$ ÈCPU ý*ü)[CY ÎP¬K¼L$,X ™ ‰ ß ¥EÕ ¹ « µ C È ' CPU ý*ü)[Õ4ÁP¬ b?º ¥P¬K¼L$ Ê,¾ ¥EÕ Ô õ ¹ « µ C × CPU ý*ü)[" b?º ¥ "K¼L$ â, ¥EÕ ¹ « µ C, Eî ' ! CPU ý*ü)[Æ4£ ßL! È A¹ µ C ¾ Ý ü CPU ý*ü)[P¬ bP¬K¼L$CÇ ¬ " b "K¼L$ Ê ¥EÕ Ä

Ï _ Ð

ßM6,X/ _ Ú CPU ý*ü)[?º ¥ "K¼L$G!5B 70%ÈCPU ý*ü)[?º ¥P¬K¼L$G!5B 80%Ä

```
ruijie(config)# cpu-log log-limit 70 80
```

8¹ CPU ý*ü)[P¬ b 80%Ú / V ß µ C Ö

```
Oct 20 15:47:01 %SYSCHECK-5-CPU_USING_RATE: CPU utilization in
one minute : 95% ÈUsing most cpu's task is ktimer : 94%
```

8¹ CPU ý*ü)[" b 70%Ú / V ß µ C Ö

```
Oct 20 15:47:01 %SYSCHECK-5-CPU_USING_RATE: CPU
utilization in one minute :68% ÈUsing most cpu's task
is ktimer : 60%
Oct 20 15:47:01 %SYSCHECK-5-CPU_USING_RATE: The CPU
using rate has down!
```

2.1.3 show environment

?U ¹,ß2Ï4³)ƒ W µ C È Ù À Ö CPU#ý z ÈN¢ Ã+ $d ¹ 0 ™ ‰ ÄAË ;> (M *ü õ ã Q ¸ **show environment** Ä

show environment

Ï – DAÈ â Ð

´

Ï5 ,ÕA'5B Ð

+9

Ï Q ¸ õ ã Ð

(M *ü õ ã Ä

Ï S*ü Û + Ð

S*üA¹ Q ¸ Ã ¹ ¹,ß2Ï4³,X)ƒ W µ C È Ù À CPU,X ' !#ý z ÈN¢ úE¤E@!7 È N¢ E@Eó ™ ‰ È+ $d ú ¹ 0!7 Ä

Ï _ Ð

ßM6,X/ _ ;> **show environment** ,X Ô þE¤> 4§ p Ä

```
Ruijie# show environment
---environment information---
CPU Temperature is 30
fan works in high speed mode.

FAN 1 is OK!
FAN 2 is OK!
FAN 3 is OK!
FAN 4 is OK!

POWER 1 is present!
POWER 1 power on successfully!
POWER 2 is not present!
```

ü ÞM6,X ë>< È ¡ ô Î 9,X µ C Ý ÖCPU ,X#ý z 30 !ã z ÈN¢ Ø bP¬EóE¤ E@ õ ã È 1… Y,X ¯ þN¢ E¤E@!7 È Ý , ü Ô þ+ $d È J è!7 ¹ 0 È º Ô þ + $d á ü ! Ä Ã6Ñ "u Ý]>™ 1… ÅÄ

3 ´ H a w W

3.1 ´ ü » w W

3.1.1 **threshold set**

A’5B Û nA’ Û,X Ø2OK¼L$ È Ã oA’5BK¼L$ Ý 2O È Ú ÿ CPU ý*ü)[K¼L$ Ã Y , ý*ü)[K¼L$ Ã#ý zK¼L$ Ä Í bCPU ý*ü)[K¼L$ ` Y , ý*ü)[K¼L$ È ?U*ü b o MIB AÏ ª È 9 Z?· 2Ï4³ CPU ` Y ,,X4 -/ß z È"u Ý Í h,X syslog Ä5à#ý zK¼L$ È*ü b,¥ {A’ Û,X#ý z È ü #ý z ÝCYE›K¼L$ Ê È î ' D syslog Ä

*ü Ã*ü no Ú ¤ Ô2OK¼L$ 6 á äT¬Ax Ä

threshold set {cpu | memory | temperature} [M1 | M2 | slot *n* | member *n*] *warning_value critical_value*

no threshold set {cpu | memory | temperature}

– D	£EÄ
cpu | memory | temperature	Û n?UA’5B,XK¼L$2O _ Ê„ Õ Ý/¡K¼L$,XA’5B È cpu temperature

cpu memory 1 Tf 0 Tc 2.834 0 Td <035CF09AA>6<295B4BBC

G!5B _

_ 1 Ö / 1… ãA' Û,X M1 Ñ,X CPU ý*ü)[K¼L$ Ä

```
Ruijie# show threshold cpu M1
```

_ 2 Ö / Ú´A' Û,X Ý ä ,,X Y , ý*ü)[K¼L$ Ä

```
Ruijie# show threshold memory
```

,Ì G Q ¸

Q ¸	£EÄ
threshold set	K¼L$A'5B Q ¸

G ÄAÈ â

´

Q ¸ Z Æ

(Ë	AÈ â
10.3(4b3)	„ r Q ¸

4 ´ Ã ‘54 Ó w W

4.1 Ã ‘54 Ó w W

s6Ñ Ù À Ý þ Q ¸ Ö

show memory
memory-lack exit-policy
show memory protocols

4.1.1 show memory

?U ¹,ß2Ï4³ ' ! Y ¸ S*ü ™ ‰ µ C ÈAË ;> (M *ü õ ã Q ¸ **show memory** Ä

show memory

Ï – DAÈ â Ð

´

Ï5 ,ÕA'5B Ð

+9

Ï Q ¸ õ ã Ð

(M *ü õ ã Ä

Ï S*ü Û + Ð

S*üA¹ Q ¸ Ã ¹ ¹,ß2Ï4³ ' !,X Y ,(Š Õ ` Y ¸ S*ü ™ ‰ È Ù À2Ï4³,X(=)Ú Y ¸
G£ È ¹ ž ' !2Ï4³,X0NKÆNI D Ã0NKÆ Y ¸ G£ Ä

Ï _ Ð

ßM6,X/ _ ;> **show memory** ,X Ô þE¤> 4§ p Ä

```
Ruijie#show memory
System Memory Statistic:
  Free pages: 1079
    watermarks : min 379, lower 758, low 1137, high 1516
  System Total Memory : 128MB, Current Free Memory : 5283KB
  Used Rate : 96%
```

ÞM6 ,X µ C Ù ÿ V ß ´ þF¼ Ú Ö

1. Ã*ü Y ,NI þ D È Ô þ0NKÆ Y ,NI 4k û ã,X Y ,0NKÈ Ä

2. Y ," 4“ È ß>< Ø Y ," 4“,X ã Ö

" 4“	AÈ â
min	Y , U0Ã áC‡ È ™ ó4È Õ Î ,X Y E¤> È E'!8" 4“ È Ý Þ h*ü õ + Ú á ÃE¤> Ä
lower	Y , ùG¡ áC‡ È E'!8" 4“ È Ú Ý Ô þ Þ CÃ + #A,7¾ |EÔ Î È JGž Y , ÄEÔ Î #A,,X { –,ß memory-lack exit-policy Q ¸ Ä
low	Y , áC‡ È E'!8" 4“ È Þ CÃ+ #A, ÚE¯ 9 OVERFLOW (Š Õ È!8(Š Õ ß ÈCÃ+ A' Û Ú á a : 4 „,XCÃ+ Ä Y , áC‡ Ê È2Ï4³ { Ä á AŒ Q ¸ ;> Ä
high	Y , >© È!8" 4“ ¹ Þ È><2Ï4³ Y , >© ÈCÃ + A' Û ØCÃ+ #A, Ú ñA© ¢ OVERFLOW (Š Õ 6 á !7 (Š Õ Ä

3. 2Ï4³ Y , D È ' ! Ã*ü Y , D È ¹ ž Y , S*ü)[Ä

4.1.2 **memory-lack exit-policy**

A¹ Q ¸A'5B ' Y , E' worsen 4“ â È Þ CÃ+ #A,,XEÔ Î1*+9 È Þ CÃ+ #A, Ù À BGP ÃOSPF ÃRIP ÃPIM-SM Ä

memory-lack exit-policy (bgp |ospf |pim-sm| rip)

no memory-lack exit-policy

Ï **– DAÈ â** Ð

– D	£EÄ
bgp|ospf|pim-sm|rip	Û nCÃ+ #A, BGP ê OSPF ê PIM ê RIP Ä
no	S*üA¹EÝ ½NM 6 áT¬Ax> Ä

Ï**5 ,Õ ™ ‰** Ð

5 ,Õ EÔ Î Y , 4*ü Ô û,XCÃ+ #A, Ä

Ï **Q ¸ õ ã** Ð

< G!5B õ ã

Ï **S*ü Û Ð** Ð

Y ,E' lower 4“ Ê(S*ü show memory Q ¸ Ã ¹ ¹,ß lower 4“ î å Ä) È ± x2Ï4³ ,X J W #A,E¤> È Ú GKÁ Ô þCÃ+ #A, ÈGž Î Y ,C $d Ä

*ü h '-¹F' ¾ oCÃ+ #A, e Z J5%4°,X ?U î u È ü Y , áC‡,X ™ ‰ ß È GKÁ Ô þ Ô áG¡?U,X #A, È ¹ “ üE-/¡ U0Ã ™ ‰ ß ± x ?U î u,XE¤> Ä

!¨ V ¤*ü 5%4° BGP : 4,XCÃ+ âA¹5%4° — î u ´ G Èí Ã ¹A'5B Y , áC‡ ÊEÔ Î 1*+9 bgp Ä

AÈ â

G!5BUSB

¯ › a Â

Ú ` Ÿ4¡5%4°1u)Ú Q ¸ `,Ì G Y • È Ù À ¹ ß0´8V Ö

1. G!5B2Ï4³ ¹ « Q ¸
2. G!5BRLOG ¹ « Q ¸
3. G!5BSNMP Q ¸
4. G!5BAPM ¹ « Q ¸

1 ´ x ž z ¹ w W

1.1 ´ ü » w W

1.1.1 logging on

?U AŒ ¹ « µ C ü á àA’ Û Þ,X / ÈÆË S*üA¹ < Q ¸ Ä?U/U!6 ¹ « µ C,X / È AË S*üA¹ Q ¸,X no 6 ã Ä

logging on

no logging on

Ï – DAÈ â Ð

´ – D

Ï5 ,ÕA’5B Ð

AŒ ¹ « µ C ü á àA’ Û Þ / Ä

Ï Q ¸ õ ã Ð

< G!5B õ ã

Ï S*ü Û + Ð

RGOS á ™ Ã ¹ Ú ¹ « µ C / ü Console 0k · Ã VTY 0k · Þ È 3 Ã ¹ Ú ¹ « µ C A„) ü á à,XA’ Û Þ Ö Y ,4ç † Ã FLASH ÃSyslog ServeÄA¹ Q ¸ ¹ « Ô G È V p GKÁ ¹ « Ô G È Ý ¹ « µ C Ú á>• / êA„) ÈL8 Z ùG¡ û4{ ÿ û b 1 ,X Log Ä

Ï _ Ð

ßM6,X/ _ üA’ Û Þ GKÁ ¹ « Ô G Ö

```
Ruijie(config)# no logging on
```

Ï,Ì G Q ¸ Ð

Q ¸	AÈ â

logging console	A’5B AŒ ü{ Ä Þ / ,X ¹ « µ C4{ ÿ
logging monitor	A’5B AŒ ü VTY 0k ·(V telnet 0k ·) Þ / ,X ¹ « µ C4{ ÿ
logging trap	A’5B AŒ ¥EÕ4Syslog Server,X ¹ « µ C4{ ÿ

1.1.2 terminal monitor

A¹ Q ¸ AŒ ü ' ! VTY 0k · Þ / ¹ « µ C Ä?U GKÁ ü ' ! VTY 0k · Þ / ¹ « µ C ÈAË S*üA¹ Q ¸,X no 6 ã Ä

terminal monitor

terminal no monitor

Ï5 ,ÕA’5B Ð

5 ,Õ ™ ‰ ß È üVTY 0k · Þ á AŒ ü VTY 0k · Þ / ¹ « µ C Ä

Ï Q ¸ õ ã Ð

(M *ü õ ã

Ï S*ü Û + Ð

Q ¸ ¾ A’5B ' ! VTY ,X Ê 2 û Ä 0 Ê 2 ûA’5B È W á î>•" ± , Ä ü VTY 4œ0Ã îA±4§ 3 â È2Ï4³ ÚG›*üT¬AxA’5B5àA¹ Ê 2 ûA’5B Ú Ä

Z • “1u)Ú ÈRGOS AŒ ü { Ä Þ S*üA¹ Q ¸ Ä ü { Ä Þ ;> A¹ Q ¸,X no 6 ã, Ú ¾ AŒ ùG¡ û4{ ÿ 0 È1 ,XM2 2û ù ¹ « y [/ Ä

Ï _ Ð

ßM6/ _ ÈA’5B ' ! VTY 0k · AŒ ' D ¹ « µ C Ä

```
Ruijie# terminal monitor
Ruijie#
```

1.1.3 logging buffered

?UA’5BA„) ¹ « µ C,X Y ,4ç † – DÄ ¹ « µ C ùG¡ û Ã4ç † û ã ÅÈAË ü < G!5B ;> A¹ Q ¸ ÄA¹ Q ¸,X no 6 ã Ú/U!6 ü Y ,4ç † A„) ¹ « µ C Ä

logging buffered [*buffer-size* | *level*]

no logging buffered

Ï – DAÈ â Ð

buffer-size Ö4ç † û ã È ª 8× È ¢ 4K 128K BytesÄ

levelI Ö ¹ « µ C,X ùG¡ û È ¢ 0 7 Ä Ã ¹ S*ü4{ ÿ á/Ä È 3 Ã ¹,È y S*ü D + Ä

Ï5 ,ÕA'5B Ð

4ç † T¬Ax û ã 4k BytesÄ

¹ « µ C,X ùG¡ û 7 Ä

Ï Q ¸ õ ã Ð

< G!5B õ ã

Ï S*ü Û + Ð

Y ,4ç † 0NKÈ ~)ƒ S*ü,X È V p Û n û ã,X Y , >• m$µ È í Ô ½,X ¹ « µ C Ú>•?Z,ª Ä?U ¹,ß Y ,4ç † ,X ¹ « µ C ÈAË S*ü(M *ü Q ¸ **show logging Ä**

Y ,4ç † ,X ¹ « µ C Ê û,X ÈA' ÛG¡ ê5Ù ;> (M *ü Q ¸ clear loggingÈ4ç † ,X ¹ « µ C Ú>•#ÙL8 Ä V p?UC³CþKÂNl È hA¹ Ú ¹ « m FLASH ê5Ù ¥EÕ4-Syslog ServeÄ

RGOS,X ¹ « µ C Ú ¹ ß 8 þ4{ ÿ Ö

><1

GK +	1 4{	£EÄ
Emergencies	0	2û ù ™ ‰ È2Ï4³ á6Ñ!7 E¤>
Alerts	1	LÔ?U0Ÿ GG› ª ~ ' !7,XKÂNl
Critical	2	G¡?U ™ ‰
Errors	3	JíAÃ µ C
warnings	4	A: µ C
Notifications	5	BEî2O _ È áE›LÔ?U G"¼,XG¡?U µ C
informational	6	AÈ â û,X µ C
Debugging	7	A×A© µ C

C^ ã È4{ ÿC^P¬ È G 0 4{ ÿ,X µ C ÔP¬4{ ÿ,X µ C Ä

' Û nA' Û AŒ / ,X ¹ « µ C4{ ÿ ¹ â È1 b ê " b A'5B 4{ ÿ,X ¹ « µ C Ú >• AŒ / Ä

Ï _ Ð

ßM6/ _A'5B ¾ AŒ4{ ÿ 6 ¹ ž " b 6 ,X ¹ « µ CA„) ü û ã 10000 +8V,X Y

,4ç † Ö

```
Ruijie(config)# logging buffered 10000 6
```

Ï¸Ì G Q ¸ Ð

Q ¸	AÈ â

¹ « µ CA„) FLASH ,X Q ¸ È Ô î î ü FLASH *ó ä 16 þ [Ê ×

Ï _ Ð

ßM6/ _ Ú ¹ « µ CA„) ü FLASH È[Ê á trace.txtÈ[Ê û ã 64K, ¹ « µ C4{ ÿ 6 Ä

```
Ruijie(config)# logging file flash:trace
```

Ï,Ì G Q ¸ Ð

Q ¸	AÈ â
logging on	' Ô ¹ « Ô G
show logging	¹,ß4ç † ¹ « y [È ¹ ž,Ì G ¹ «G!5B – D
more flash	¹,ß FLASH ¹ « µ C

```
Ruijie(config)# logging console informational
```

Ï¸Ì G Q ¸ Ð

Q ¸	AÈ â
logging on	' Ô ¹ « Ô G
show logging	¹,ß4ç † ¹ « y [È ¹ ž,Ì G ¹ «G!5B – D

1.1.7 logging monitor

?UA'5B AŒ ùVTY 0k · Ätelnet 0k · Ã SSH0k ·1 Å Þ / ,X ¹ « µ C4{ ÿ ÈAË ü < G!5B õ ã ß ;> A¹ Q ¸ ÄA¹ Q ¸,X no 6 ã/U!6 ü VTY 0k · Þ ' D ¹ « y [Ä

logging monitor *level*

no logging monitor

Ï – DAÈ â Ð

level Ö ¹ « y [,X ùG¡ û Ä Ã ¹ S*ü4{ ÿ á/Ä È 3 Ã ¹,È y S*ü D + Ä G b ¹ « µ C ùG¡ û,XAº4šAÈ â ÈAË –5×><1 Ä

Ï5 ¸ÕA'5B Ð

Debugging (7)

Ï Q ¸ õ ã Ð

< G!5B õ ã

Ï S*ü Û + Ð

?U ü VTY 0k · Þ ' D ¹ « µ C ÈÐj ;> (M *ü Q ¸ **terminal monitor** AŒ ü ' ! VTY 0k · ' D ¹ « µ C Ä AŒ>• / ,X ¹ « µ C4{ ÿ í+ **logging monitor** n Ä

Logging monitor n ,X ¹ « µ C4{ ÿ J\ Í Ý VTY 0k · Ä

Ï _ Ð

ßM6/ _G!5B AŒ ü VTY 0k · Þ ' D,X ¹ « µ C4{ ÿ 6 Ö

```
Ruijie(config)# logging monitor informational
```

Ï¸Ì G Q ¸ Ð

Q ¸	AÈ â
logging on	' Ô ¹ « Ô G
show logging	¹,ß4ç † ¹ « y [È ¹ ž,Ì G ¹ «G!5B – D

1.1.8 **logging trap**

?UA'5B AŒ ¥EÕ4-Syslog Server¸X ¹ « µ C4{ ÿ ÈÆË ü < G!5B õ ã ß ;> A¹ Q ¸ Ä A¹ Q ¸,X no 6 ã/U!6 Ú ¹ « y [¥EÕ4- Syslog ServeÆ

logging trap *level*

no logging trap

Ï – DAÈ â Ð

level Ö ¹ « y [,X ùG¡ û Ä Ã ¹ S*ü4{ ÿ á/Ä È 3 Ã ¹,È y S*ü D + Ä G b ¹ « µ C ùG¡ û,XAº4šAÈ â ÈAË –5×><1 Ä

Ï5 ,ÕA'5B Ð

Informational(6)

Ï Q ¸ õ ã Ð

< G!5B õ ã

Ï S*ü Û + Ð

?U Ú ¹ « µ C ¥EÕ4- Syslog ServeÈOj ?U S*ü < G!5B Q ¸ logging G!5BSyslog ServerÄ' â È S*ü logging trap Û n ¥EÕ4- ¹ « µ C,X ùG¡ û4{ ÿ Ä

EîE› **show logging** Q ¸ Ã ¹ ¹,ß ¹ «A'5B,X,Ì G – D `4³Au Ä

Ï _ Ð

ßM6,X _ $G!5B Ú4{ ÿ 6,X ¹ « µ C ¥EÕ4- 202.101.11.22¸X Syslog ServeÖ

```
Ruijie(config)# logging 202.101.11.22
Ruijie(config)# logging trap informational
```

Ï,Ì G Q ¸ Ð

Q ¸	AÈ â
logging on	' Ô ¹ « Ô G
logging	Ú ¹ « µ C ¥4- Syslog Server ¹,ß4ç †

logging source interface *interface-type interface-number*

no logging source interface

Ï – DAÈ â Ð

interface-type Ö y ·2O _

interface-number Ö y ·4ê Ë

Ï5 ,ÕA'5B Ð

´

Ï Q ¸ õ ã Ð

< G!5B õ ã

Ï S*ü Û + Ð

T¬Ax ™ ‰ ß È¥EÕ4Syslog Server,X ¹ « y [$d y [¥EÕ y ·,X Ä Z " bC³Cþ1u)Ú È Ã ¹ S*üA¹ Q ¸ Ú Ý ¹ « y [,X$d Î n ¤ þ y · ÈE- 1u)Ú , EîE› Ô Aš ÿ ¢ ¾ ÄA' Û ¥EÕ Î 9,X ¹ « y [Ä

Ï _ Ð

ßM6,X/ _ Û n Loopback 0,X Syslog y [,X$d Ö

```
Ruijie(config)# logging source interface loopback 0
```

Ï,Ì G Q ¸ Ð

Q ¸	AÈ â
logging server	Ú ¹ « µ C ¥4- Syslog Server

1.1.10 logging source ip| ipv6

?UA'5B ¹ « y [,X$d ÈAË ü < G!5B õ ã ß ;> A¹ Q ¸ ÄA¹ Q ¸,X no 6 ã ª#\ Û n y [,X$d0Ã ·A'5B Ä

logging source {**ip** *ip-address* | **ipv6** *ipv6-address*}

no logging source {**ip** | **ipv6**}

Ï – DAÈ â Ð

ip-address Û n å IPV4 ¹ « ¥EÕ ¹ « y [,X$d IPV4 ×

ipv6-address Û n å IPV6 ¹ « ¥EÕ ¹ « y [,X$d IPV6 ×

Ï5 ,ÕA'5B Ð

´

1	user-level messages
2	mail system
3	system daemons
4	security/authorization messages
5	messages generated internally by syslogd
6	line printer subsystem
7	network news subsystem
8	UUCP subsystem
9	clock daemon
10	security/authorization messages
11	FTP daemon
12	NTP subsystem
13	log audit
14	log

Q ¸	AÈ â
logging console	A’5B AŒü { Ä Þ / ,X ¹ « µ C4{ ÿ

1.1.12

severity]

no logging rate-limit

Ï – DAÈ â Ð

number !£/¦Js Y AŒ Ø)Ú,X ¹ « µ C È8× È 1—10000 ×

all A'5B Í Ý,X ¹ « µ CE¯> Eó)[{ È Ù À 0—7 4{ Ý ¹ « µ C ×

console A'5B!£/¦Js Y AŒ ü { Ä Þ / ,X ¹ « µ C D ×

except ã b1 b!8 ùG¡ û4{ ÿ,X ¹ « µ C ÈáE¯> Eó)[{ ×Ť¬Ax4{ ÿ error(3)È Í ã b1 b error4{ ÿ,X ¹ « µ C áE¯> Eó)[{ ×

severity ¹ « µ C ùG¡ û4{ ÿ È4{ ÿC^ ã È ùG¡ ûC^P¬ È8× È 0—7;

Ï5 ,ÕA'5B Ð

5 ,Õ ™ ‰ ß È áE¯> Eó)[{ Ä

Ï Q ¸ õ ã Ð

< G!5B õ ã

Ï S*ü Û + Ð

!8 Q ¸ { 2Ï4³,X ¹ « µ CEg Î Ä S*ü!8 Q ¸ È Ã ¹L !6 ûG£,X ¹ « µ CEg Î Ä

Ï _ Ð

A'5B!£/¦Js Y AŒ Ø)Ú,X Ý ¹ « µ C Ä Ù À debugÅ 10 5 È Í warning ž È ùG¡4{ ÿ áE¯> { Ö

```
Ruijie(config)#logging rate-limit all 10 except warnings
```

Ï,Ì G Q ¸ Ð

Q ¸	AÈ â
show logging count	¹,ß2Ï4³ Ø õ + ¹ « µ C
show logging	¹,ß ¹ « õ +,X Î G!5B µ C â ¹ «4ç † ,X ¹ « µ C

1.1.14 **logging synchronous**

KÁ Ô*ü ¼ÃÒÅ•»'Z°[Qd4Vpž À•‡3m ÓP °U1MD 'd3 Q

Ï – DAÈ â Ð

´

Ï5 ,ÕA'5B Ð

5 ,Õ ™ ‰ ß È*ü Eg 9 â ¹ « µ CEg Î à!9 s6Ñ GKÁ Ä

Ï Q ¸ õ ã Ð

4“CÃG!5B õ ã

Ï S*ü Û + Ð

!8 Q ¸ ' Ô*ü Eg 9 â ¹ « µ CEg Î à!9 s6Ñ È Ã ¹L !6*ü !7 üEg 9,X +0ú Ê>•
' • Ä

Ï _ Ð

```
Ruijie(config)#
Ruijie(config)#line console 0
Ruijie(config-line)#logging synchronous
```

V p!7 üEg 9 Q ¸ Ê È ' D0Ã · UP-DOWN ¹ « µ C È íEg 9,X Q ¸ îG¡ „Eg Î Ö

```
Ruijie#configue terminal
Oct  9 23:40:55 %LINK-5-CHANGED: Interface GigabitEthernet 0/1,
changed state to down
Oct  9 23:40:55 %LINEPROTO-5-UPDOWN: Line protocol on Interface
GigabitEthernet 0/1, changed state to DOWN
Ruijie#configue terminal    ----*ü Eg 9,X Q ¸G¡ „Eg Î È5à á>• ' •
```

Ï,Ì G Q ¸ Ð

Q ¸	AÈ â
show running-config	¹,ß2Ï4³,XG!5B µ C

1.1.15 service sequence-numbers

?U ü ¹ « µ C t Þ c Ë ÈAË ü < G!5B õ ã ß ;> A¹ Q ¸ ÄA¹ Q ¸,X no 6 ã ª#\
ü ¹ « µ C ,X c Ë Ä

service sequence-numbers

no service sequence-numbers

Ï – DAÈ â Ð

´

¹ « µ C á ú c Ë Ä

Ï Q ¸ õ ã Ð

< G!5B õ ã

Ï S*ü Û + Ð

L8 Z ü ¹ « µ C t Þ ÊKÈ µ C ¹ ê ÈE¬ Ã ¹ ü ¹ « µ C t Þ c Ë È c Ë ¢ 1
Ô Ÿ Ä t Þ c Ë ¹ â È Ã ¹M2 #Ù . -¹F' ¹ « µ C Ý"u Ý ö È ¹ ž ¹ « {*ó
,X âNN c Ä

Ï _ Ð

ßM6/ _G!5B ü ¹ « µ C t Þ c Ë Ö

```
Ruijie(config)# service sequence-numbers
```

Ï,Ì G Q ¸ Ð

Q ¸	AÈ â
logging on	' Ô ¹ « Ô G
service timestamps	*ü ¹ « µ C ,X ÊKÈ

1.1.16 service timestamps

?U ü ¹ « µ C t Þ ÊKÈ µ C ÈAË ü < G!5B õ ã ß ;> A¹ Q ¸ ÄA¹ Q ¸,X no
6 ã ª#\ ü ¹ « µ C ' Þ ÊKÈ µ C Ä default 6 ã 6 á ¹ « µ C,X ÊKÈ T¬Ax
Ä

service timestamps *message-type* [*uptime* | *datetime* [*msec* | *year*]]

no service timestamps *message-type*

default service timestamps *message-type*

Ï – DAÈ â Ð

message-type Ö ¹ «2O _ E Ý ø/¡ È Ú ÿ log ` debug Älog µ C Û ü ùG¡ û
4{ ÿ ü 0 É6 KÈ,X ¹ « µ C Èdebug µ C ùG¡ û4{ ÿ 7 ,X ¹ « µ C Ä

uptime ÖA' Û | ÊKÈ È ã Ö* ý* ã Ê* Ú*/¦ È _ Ö07:00:10:41

datetime Ö ' !A' Û ¹ ó È ã Ö Ü ¹ ó Ê Ö Ú Ö/¦ È _ ÖJul 27 16:53:07

msec ' !A' Û ¹ ó Õ!¿/¦ / È ã Ö Ü ¹ ó Ê: Ú:/¦ .!¿/¦ _ ÖJul 27 16:53:07.299

year ' !A' Û ¹ ó Õ H Ñ / È ã Ö H Ü ¹ ó Ê: Ú:/¦ _ Ö2007 Jul 27 16:53:07

Ï5 ,ÕA'5B Ð

¹ « µ C ,X ÊKÈ È ' !A' Û ÊKÈ Ä V pA' Û"u Ý RTC È í7¾ |A× H A' Û | ÊKÈ Ä

Ï Q ¸ õ ã Ð

< G!5B õ ã

Ï S*ü Û + Ð

S*ü Uptime EÝNM,X ÊKÈ ã A' Û7¾ ¢ Þ õ | ,Â !,XE¤> ÊKÈ È) ! /¦ Ä
S*ü DatetimeEÝNM,X ÊKÈ ã ' !A' Û,X ¹ ó È H É Ü É ¹ ã Ê ÖÚJs Ø¦ Ä

Ï _ Ð

ßM6/ _G!5B *ü Log µ C ` Debug µ C,X ÊKÈ È ã DatetimeÖÈ J è Õ !¿/¦ / Ö

```
Ruijie(config)# service timestamps debug datetime msec
Ruijie(config)# service timestamps log datetime msec
Ruijie(config)# end
Ruijie(config)#Oct 823:04:58.301%SYS-5-CONFIG_I: Configured
from console by console
```

Ï¸Ì G Q ¸ Ð

Q ¸	AÈ â
logging on	' Ô ¹ « Ô G
service sequence-numbers	*ü ¹ « µ C ,X c Ë

1.1.17 service sysname

?U ü ¹ « µ C t Þ2Ï4³ á ÈAË ü < G!5B õ ã ß ;> A¹ Q ¸ ÄA¹ Q ¸,X no 6 ã ª #\ ü ¹ « µ C ,X2Ï4³ á Ä

service sysname

no service sysname

Ï – DAÈ â Ð

´

Ï5 ,ÕA'5B Ð

¹ « µ C á ú2Ï4³ á Ä

Ï Q ¸ õ ã Ð

< G!5B õ ã

Ï S*ü Û + Ð

EîE›!8 Q ¸ È Ã ¹ BLÔ?U È ‡ n ü ¹ « µ C ú#Ï t2Ï4³ á Ä

Ï _ Ð

ßM6/ _G!5B ü ¹ « µ C t Þ2Ï4³ á Ö

```
Mar 22 15:28:02 %SYS-5-CONFIG: Configured from console by console
Ruijie# config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Ruijie(config)# service sysname
Ruijie(config)# end
Ruijie#
Mar 22 15:35:57 S3250 %SYS-5-CONFIG: Configured from console by
console
```

Ï¸Ì G Q ¸ Ð

Q ¸	AÈ â
show logging	/ ¹ « õ +¸X Î G!5B µ C â ¹ «4ç † ¸X ¹ « µ C

1.1.18 **more flash**

?U ¹¸ßA„) ü FLASH ¹ « [Ê Y • ÈAË ü(M *ü õ ã ß ;> A¹ Q ¸ Ö

more flash:filename

Ï – DAÈ â Ð

Filename Ö ¹ « [Ê á/Ä

Ï Q ¸ õ ã Ð

(M *ü õ ã

Ï S*ü Û + Ð

ü FLASH

AŒ S*üA¹ Q ¸ –5× J ªM2 ¹ « [Ê Ä

FLASH ¹ « [Ê¸X Ô þ4§ p Ö

```
re flash://f2/log.txt
ile in the extended flash://f2/log.txt
4-11-17 4:1:32 Ruijie: %5:Reload requested by
tor. Reload Reason :Reload command
```

(M *ü õ ã

Ï _Ð

ßM6/ _ ;> **show logging** ,X Ô þ4§ p Ö

```
Ruijie# show logging
Syslog logging: enabled
Console logging: level debugging, 4 messages logged
Monitor logging: level informational, 0 messages logged
Buffer logging: level debugging, 6 messages logged
Timestamp debug messages: datetime
Timestamp log messages: disabled
Sequence log messages: enable
Trap logging: level debugging, 2 message lines logged, 0 reserved, 0
fail
logging to  202.101.11.22
logging to  192.168.200.112
Log Buffer (Total 4096 Bytes) : have written 680
00001 2004-11-17 10:20:59  Ruijie: %7:%LINK CHANGED: Interface
FastEthernet 0/0, changed state to up
00002 2004-11-17 10:20:59  Ruijie: %7:%LINE PROTOCOL CHANGE:
Interface FastEthernet 0/0, changed state to UP
00003 2004-11-17 10:57:18  Ruijie: %7:%LINK CHANGED: Interface
FastEthernet 0/1, changed state to administratively down
00004 2004-11-17 10:57:21  Ruijie: %7:%LINK CHANGED: Interface
FastEthernet 0/1, changed state to down
00005 2004-11-17 10:57:41  Ruijie: %7:%LINK CHANGED: Interface
FastEthernet 0/1, changed state to administratively down
00006 2004-11-17 10:57:43  Ruijie: %7:%LINK CHANGED: Interface
FastEthernet 0/1, changed state to down
```

¹ « µ CAÈ â Ö

+!‰	AÈ â
Syslog logging	¹ « Ô G Ö ' Ô / **enabled**, GKÁ / **disabled**
Console logging	' D ü { Ä Þ ¹ « µ C,X4{ ÿ È ¹ ž4³Au
Monitor logging	' D ü VTY 0k · Þ ¹ « µ C,X4{ ÿ È ¹ ž4³Au

Sequence log messages	c Ë Ô G
Trap logging	¥EÕ4- Syslog Server¹ « µ C,X4{ ÿ È ¹ ž4³Au
Log Buffer	A„) ü Y ,4ç † ,X ¹ « y [

Ï,Ì G Q ¸ Ð

Q ¸	AÈ â
logging on	' Ô ¹ « Ô G
clear logging ÿ È ¹ ž4³Au	#ÙL8 ¹ «µ C,X4{

logging count	' Ô ¹ «4³Au s6Ñ Ô G
show logging	/ ¹ « õ +,X Î G!5B µ C â ¹ «4ç † ,X ¹ « µ C
clear logging	#ÙL8 ¹ «4ç † ,X ¹ « µ C

2.1.2 rlog filter

G!5B ¹ «Eg ÎE›$¸ 5 Ê

rlog filter *number*

no rlog filter

– DAÈ â

– D	£EÄ
number	E›$¸ 5 Ê,X ACL 4ê Ë

5 ,ÕG!5B á G6(ACL

Q ¸ õ ã < G!5B õ ã Ä

S*ü Û Ð LÔ?U ÍEgÎ,X ¹ «E¯> E›$¸ Ê È Ã ¹ S*ü Q ¸

G!5B – _ 1 Ö ßM6,X/ _G!5B ¹ « á u G6(ACL 2000 Ö

```
Ruijie(config)# rlog filter 2000
```

,Ì G Q ¸

Q ¸	£EÄ
-	-

AÈ â -

G ÄAÈ â L8 NPE50 ê ,X J ª NPE 2Ï ë Õ

Q ¸ Z Æ

(Ë	AÈ â
10.3(4t76)	ñ0

2.1.3 rlog server

G!5B Z ¹ « á u < ` VRF È ê5Ù Û n1u)Ú · È ' Ô ¹ « á u s6Ñ

rlog server *server-ip* [vrf *vrf-name* | oob] [port *port-num*]

no rlog server *server-ip*

– DAÈ â

– D	£EÄ
server-ip	¹ « á u <

vrf-name	VRF á +
port-num	0Ã · Ë

5 ,ÕG!5B 5 ,Õ ™ ‰ß ¹ « á u GKÁ,X

Q ¸ õ ã < G!5B õ ã

S*ü Û Ð ¹ « á u <G!5B>• 0 ¹ « Ô G Q ¸ Ä ü"u ÝG!5B ¹ « á u <,X ™ ‰ ß ÈA' Û Ú á î ¥ EÕ ¹ « ¹ « á u < Ä

G!5B Z ¹ « á u < Q ¸,X à Ê ÈA' Û î | ¹ « õ + È Ú ¹ « µ C ¹ udp y [,X • ã ¥ EÕ Î • Ä

0Ã · ËT¬Ax 20000 ×

G!5B _ _ Ö ßM6,X/ _G!5B Ô þ ¹ « á u < Ö

```
Ruijie(config)# rlog server 10.1.1.1 port 20001
```

,Ì G Q ¸

Q ¸	£EÄ
-	

AÈ â G!5B ¹ « á u < Q ¸ ¾ ' Ô ¹ « á u ÈEg Î ¹ « Y • J"u Ý Ô È)(À ' ÔA¹ Q ¸ á î Ý ¹ « Y •Eg Î Ä

G ÄAÈ â -

Q ¸ Z Æ

(Ë	AÈ â
10.3(4T76)	„ r oob GK +
10.3(4T90)	r t port GK +

2.1.4 rlog type

Ô ¤/¡ ¹ « s6Ñ È JA'5B ì 4{

rlog type *n* server *server-ip* priority *prio*

no rlog type *n* server *server-ip*

– DAÈ â

– D	£EÄ
n	¹ «,X2O _ c Ë
server-ip	á u < ip
prio	¹ « ì 4{

5 ,ÕG!5B - Ä

Q ¸ õ ã < G!5B õ ã Ä

S*ü Û Ð A¹ Q ¸ Ô ¤/¡ ¹ « s6Ñ È JA'5BA¹ ì 4{ ×

G!5B – _ 1 Ö ßM6,X Ô y · ¹ « s6Ñ Ö

```
Ruijie(config)# rlog type 24 server 192.168.195.52 priority 5
```

,Ì G Q ¸

Q ¸	£EÄ
-	-

AÈ â ¹ «2O _

```
Ruijie(config)#
```

G ÄAÈ â -

Q ¸ Z Æ

(Ë	AÈ â
10.3(4T76)	„ r Q ¸

Q ¸ Z Æ	(Ë	AÈ â
	-	-

2.2.2 show rlog-type

/ ¹ «2O _ Í h,X c Ë Ä

Show rlog-type

– DAÈ â	– D	£EÄ
	-	-

5 ,ÕG!5B	- Ä

Q ¸ õ ã	(M õ ã

S*ü Û Ð	S*üA¹ Q ¸ ¹,ß ¹ «2O _ Í h,X c Ë ×

G!5B –	_ 1 Ö ßM6,X/ _ ¹,ß ¹ «2O _ Í h,X c Ë Ö Ruijie#show rlog-type XLOG_TYPE_FLOW 16 XLOG_TYPE_CPU_MEM 17 XLOG_TYPE_DISC 18 XLOG_TYPE_DEV_LOG 19 XLOG_TYPE_URL_AUDIT 20 XLOG_TYPE_SESSION 21 XLOG_TYPE_IP_APP 22 XLOG_TYPE_IP 23 XLOG_TYPE_CHANNEL 24 XLOG_TYPE_INTERFACE 25 XLOG_TYPE_IP_OFFLINE 26 XLOG_TYPE_MAIL_AUDIT 27 XLOG_TYPE_TELNET_AUDIT 28 XLOG_TYPE_WEB_SEARCH_AUDIT 29 XLOG_TYPE_WEB_BBS_AUDIT 30 XLOG_TYPE_IM_AUDIT 31 XLOG_TYPE_FTP_AUDIT 32 XLOG_TYPE_WEB_AUDIT 33

,Ì G Q ¸	Q ¸	£EÄ

	-	-

AÈ â / ¹ « 2O _ Í h,X c Ë ×

G ÄAÈ â -

Q ¸ Z Æ

(Ë	AÈ â
10.3(4T76)	„ r Q ¸

2.2.3 show rlog-status

/ ¹ « Ô ,X(Š Õ Ä

Show rlog-status server *server-ip*

– DAÈ â

– D	£EÄ
Server-ip	á u < ip

5 ,ÕG!5B - Ä

Q ¸ õ ã (M õ ã

S*ü Û Ð S*üA¹ Q ¸ / ¹ «,X Ô (Š Õ ×

G!5B _

_ 1 Ö ßM6,X/ _ ¹,ß ' ! ¹ « Ô ,X(Š Õ Ö

```
Ruijie(config)#show rlog-s server 192.168.195.52
server:192.168.195.52
type                        status    prio
XLOG_TYPE_FLOW               off
XLOG_TYPE_CPU_MEM            off
XLOG_TYPE_DISC               off
XLOG_TYPE_DEV_LOG            off
XLOG_TYPE_URL_AUDIT          off
XLOG_TYPE_SESSION            off
XLOG_TYPE_IP_APP             off
XLOG_TYPE_IP                 off
XLOG_TYPE_CHANNEL            off
XLOG_TYPE_INTERFACE          off
XLOG_TYPE_IP_OFFLINE         off
XLOG_TYPE_MAIL_AUDIT         off
XLOG_TYPE_TELNET_AUDIT       on        1
```

```
XLOG_TYPE_WEB_SEARCH_AUDIT    off
XLOG_TYPE_WEB_BBS_AUDIT       off
XLOG_TYPE_IM_AUDIT           off
XLOG_TYPE_FTP_AUDIT          off
XLOG_TYPE_WEB_AUDIT          off
```

¸Ì G Q ¸	Q ¸	£EÄ
	-	-

AÈ â / ¹ « Ô (Š Õ ` ì 4{ ×

G ÄAÈ â -

Q ¸ Z Æ	(Ë	AÈ â
	10.3(4T76)	„ r Q ¸

2.2.4 show nat-log

¹A¶ NAT/# ¹ «

Show nat-log [username *user_name*] [ip-protocol i *p-protocol*] [source-ip *source-ip*] [dst-ip *dst-ip*] [src-port *src-port*] [dst-port *dst-port*] time-interval *begin-year begin-mon begin-day begin-hour* to *end-year end-mon end-day end-hour*

– DAÈ â	– D	£EÄ
	user_name	*ü á
	ip-protocol	

end-h our	4§ 3 ÊKÈ ã Ê

5 ,ÕG!5B -

Q ¸ õ ã (M õ ã

S*ü Û Đ A¹ Q ¸*ü b ¹A¶ Ô!‰ ÊKÈ YA„),X# /NAT ¹ «, È Ã ¹ B*ü á È #A, Ë È$d ip È‚Â,X ip È$d0Ã · È,Â,X0Ã ·E›$¸ ×

G!5B _

_ 1 Ö ßM6,X/ _ ¹,ß 2010 H 10 Ü 6 Ë 3 &• 5 &•,X ¹ «A„)

```
Ruijie#show nat-log time-interval 2010 10 6 3 t 2010 10 6 5
count:427
Pr    SrcAddr                                          DstAddr
UserName
SrcPort     DstPort     Vrf       SendBytes  RecvBytes  time
17   192.168.122.62  (0.0.0.0)          192.168.122.255(0.0.0.0)
192.168.122.62
138  (0)     138  (0)     0         2028       0         2010-10-6
3:1
17   192.168.100.55  (0.0.0.0)          192.168.100.255(0.0.0.0)
192.168.100.55
138  (0)     138  (0)     0         732        0         2010-10-6
3:1
17   192.168.122.54  (0.0.0.0)          192.168.122.255(0.0.0.0)
192.168.122.54
137  (0)     137  (0)     0         864        0         2010-10-6
3:1
17    192.168.195.55                              192.168.195.255
192.168.195.55
138         138         0         705        0         2010-10-6 3:1
6    192.168.7.92    (0.0.0.0)          113.105.146.82  (0.0.0.0)
192.168.7.92
35942(0)     80   (0)     0         192        0         2010-10-6
3:2
17   192.168.122.54  (0.0.0.0)          192.168.122.255(0.0.0.0)
192.168.122.54
137  (0)     137  (0)     0         1386       0         2010-10-6
3:2
17   192.168.7.92    (0.0.0.0)          202.104.241.3   (0.0.0.0)
192.168.7.92
13528(0)     8000(0)     0         97         0         2010-10-6 3:2
17    192.168.195.202                             192.168.195.255
192.168.195.202
138         138         0         774        0         2010-10-6 3:3
17   192.168.7.97    (0.0.0.0)          192.168.7.255   (0.0.0.0)
192.168.7.97
138  (0)     138  (0)     0         732        0         2010-10-6
```

```
3:3
17   192.168.2.164   (0.0.0.0)          192.168.2.255   (0.0.0.0)
192.168.2.164
138  (0)     138  (0)     0          714        0          2010-10-6
3:3
```

¸Ì G Q ¸

Q ¸	£EÄ
-	-

AÈ â

¹A¶ ¤ þ ÊKÈ!‰ YA„),X NAT/# ¹ « ×

G ÄAÈ â

-

Q ¸ Z Æ

(Ë	AÈ â
10.3(4T76)	„ r Q ¸

3 ´ SNMP w W

3.1 ´ ü » w W

3.1.1 no snmp-server

?U #; A' Û SNMP ·)Ú s6Ñ ÈAË ;> < G!5B Q ¸ no snmp-server Ä

no snmp-server

Ï5 ,ÕA'5B Ð

#; SNMP ·)Ú s6Ñ

Ï Q ¸ õ ã Ð

< G!5B õ ã

Ï S*ü Û + Ð

A¹ Q ¸ GKÁA' Û Õ,X Ý(SNMP,X ·)Ú á u Ä

Ï _ Ð

ßM6,X/ _ #; SNMP ·)Ú á u Ö

```
Ruijie(config)# no snmp-server
```

3.1.2 snmp-server chassis-id

?U Û n SNMP,X2Ï4³ c ë Ë ÈAË ;> < G!5B Q ¸ **snmp-server chassis-id** ÄA¹ Q ¸ ,X no 6 ãE¬ s ñ Ÿ Ä

snmp-server chassis-id *text*

no snmp-server chassis-id

Ï – DAÈ â Ð

text Ö 2Ï4³ c ë Ë,X [È Ã ¹ S D + ê +0ú Ä

Ï5 ,ÕA'5B Ð

c ë Ë5 ,Õ 60FF60

Ï Q ¸ õ ã Ð

< G!5B õ ã

Ï S*ü Û + Ð

SNMP 2Ï4³ c ë Ë Ô8 S*ü <,X c ë Ë È ¹ " ÍA' ÛE¯> Aš ÿ Ä2Ï4³ c ë Ë Ã ¹

EîE› **show snmp** Q ¸ ¹,ß Ä

Ï _Ð

ßM6,X/ _ Û n SNMP,X2Ï4³ c ë Ë 123456:

```
Ruijie(config)# snmp-server chassis-id 123456
```

Ï,Ì G Q ¸ Ð

Q ¸	AÈ â2BXtsfb4y4rT

ßM6,X/ _ S*üA“KÂ ë><L$ Í MIB ,XA“KÂ È ¾ AŒ 192.168.12.1,X NMS Í MIB ,XA“KÂ Ö

```
Ruijie(config)# access-list 2 permit 192.168.12.1
Ruijie(config)# access-list 2 deny any
Ruijie(config)# d e n y
```

version Ö EÝ ½snmp(È V1 ÃV2C ÃV3

auth | noauth | priv Ö A'5B V3 *ü ,X] <4{ ÿ Ä

community-string Ö ¶ ' +0ú ê*ü á ÄV3 (ÅÄ

port-num Ö A'5Bsnmp 0Ã ·

notification-type Ö | ¥EÕ,XLKL 2O _ È _ V snmpÄ

Ï5 ,ÕA'5B Ð

5 ,Õ ™ ‰ ß È"u ÝT¬A›SNMP Ä

V p"u Ý Û nLKL 2O _ È í Ù À ÝLKL 2O _ Ä

Ï Q ¸ õ ã Ð

< G!5B õ ã

Ï S*ü Û + Ð

A¹ Q ¸ â < G!5B Q ¸ **snmp-server enable traps** ÔCK S*ü È |4- NMS ¥EÕLKL #\ C Ä

Ã ¹G!5B î þ á à,X SNMP *ü b y LKL #\ C ÈÔ þ Ã ¹ S*ü á àLKL 2O _4˜ Ü È á à,X0Ã · È á à,X vrf E@ ¥>< È Í b,Ì à [,Ì à0Ã · Ã,Ì à vrf G!5B2 aL #7 È Ô â,X Ô õG!5B î ` !M6,XG!5B Ü J È G V?U4-,Ì à ¥EÕ á àLKL ,X#\ C È Ã ¹ Ú ÿG!5B á àLKL È Ô4œE- oG!5B î Ü J ÔCK Ä

Ï _ Ð

ßM6,X/ _ Û n Ô þ SNMP È y SNMP _ ÊLKL Ö

```
Ruijie(config)# snmp-server host 192.168.12.219    public snmp
```

Ï,Ì G Q ¸ Ð

Q ¸	AÈ â
snmp-server enable traps	*ü ¥EÕLKL #\ C

3.1.7 snmp-server location

snmp-server location ÄA¹ Q ¸

on 6 ã ª#\ Û n SNMP2Ï4³ !5B µ C Ä

snmp-server location *text*

no snmp-server location

Ï – DAÈ â Ð

Ä úØ+ X,C µ ³4 ÏØÄÆ

Ï5 ,ÕA'5B Ð

2Ï4³ µ C 0N

Ï Q ¸ õ ã Ð

< G!5B õ ã

Ï _ Ð

ßM6,X/ _ Û n Ô þ2Ï4³ µ C Ö

```
Ruijie(config)# snmp-server location start-technology-city 4
F of A Buliding
```

Ï,Ì G Q ¸ Ð

Q ¸	AÈ â
snmp-sever contact	SNMP2Ï4³6(2Ï • ã

3.1.8 snmp-server packetsize

?U { SNMP Ô û,X D B Ù û ã ÈAË ;> < G!5B Q ¸ **snmp-sever packetsize** ÄA¹ Q ¸,X no 6 ã 6 áT¬Ax Ä

snmp-server packetsize *byte-count*

no snmp-server packetsize

Ï – DAÈ â Ð

byte-count D B Ù û ã È ¢ 484 +8V 17876 +8V Ä

Ï5 ,ÕA'5B Ð

1500 +8V

Ï Q ¸ õ ã Ð

< G!5B õ ã

Ï _ Ð

ßM6,X/ _ Û n SNMP Ô û D B Ù û ã 1492Ö

```
Ruijie(config)# snmp-server packetsize 1492
```

Ï,Ì G Q ¸ Ð

Q ¸	AÈ â
snmp-server queue-length	SNMPKó ë û ã

G!5B

snmp-server trap-timeout *seconds*

no snmp-server trap-timeout

Ǫ¸– DAÈ â Ð

Ô þ +8V Ä t š></ ,X šJy ™ Í é ¢ Ý Ä

auth Ö Û n ú S*üP`A• Ä**md5** Û n S*ü MD5 AxA• #A, Ä**sha** Û n S*ü SHA Ax A• #A, Ä

auth-password:A'5BAxA• #A, S*ü,X · ¸ +0ú Ä áCYE› 32 þ +0ú ÅÄ2Ï4³ ÚE- o · ¸E@ 6 ä,Ì h,XAxA• šJy Ä

priv Ö Û n ú S*ü ± š Ä **des56** Û â S*ü 56 !,X DES t š #A, Ä *priv-password* Ö t š*ü,X · ¸ +0ú Ä áCYE› 32 þ +0ú ÅÄ2Ï4³ ÚE- þ · ¸E@ 6 ä,Ì h,X t š š Jy Ä

Ï5 ,ÕA'5B Đ

5 ,Õ"u ÝA'5B*ü Ä

Ï Q ¸ õ ã Đ

< G!5B õ ã

Ï _ Đ

ßM6,X/ _A'5B Ô þ snmpV3*ü È S*ü md5AxA• È ` S*ü DES t š Ö

Ruijie(config)# **snmp-server user** user-2 mib2user **v3 auth md5** authpassstr **priv des56** despassstr

Ï,Ì G Q ¸ Đ

Q ¸	AÈ â
show snmp user	/ SNMP*ü G!5B µ C

3.1.14 snmp-server group

?UA'5BSNMP*ü 4˜ ÈAË ;> < G!5B Q ¸ **snmp-server group** ÄA¹ Q ¸,X no 6 ã ôL8*ü 4˜ Ä

snmp-server group *groupname* {**v1** | **v2c** | **v3** {**auth** | **noauth** | **priv**}} [**read** *readview*][**write** *writeview*] [**access** {*num* | *name*}]

no snmp-server group *groupname* {**v1** | **v2c** | **v3** }

Ï – DAÈ â Đ

v1 | v2c |v3 Ö Û â SNMP(Ä

auth ÖA¹4˜,X*ü ôEg,X#\ CLÔ?UP`A• D B áLÔ?U ± š È ¾ Í v3 Ý Ä

noauth ÖA¹4˜*ü ôEg,X#\ C áLÔ?UP`A• D B 3 áLÔ?U ± š È ¾ Í v3 Ý Ä

priv ÖA¹4˜*ü ôEg,X#\ CLÔ?UP`A• à Ê ôEg,X D BLÔ?U ± š È ¾ Í v3 Ý Ä

readview Ö G6(Ô þ ¾AÏ,X?š Ò Ä

writeview Ö G6(Ô þAÏ m?š Ò Ä

Ï5 ,ÕA'5B Đ

5 ,Õ"u ÝA'5B*ü 4˜

Ï Q ¸ õ ã Đ

< G!5B õ ã

Ï _ Đ

ßM6,X/ _A'5B Ô þ*ü 4˜ Ö

```
Ruijie(config)# snmp-server group mib2user v3 priv read mib2
```

Ï,Ì G Q ¸ Đ

Q ¸	AÈ â
show snmp group	/ SNMP*ü 4˜G!5B µ C

3.1.15 snmp-server view

?UA'5BSNMP?š Ò ÈÄË ;> < G!5B Q ¸ **snmp-server view** ÄA¹ Q ¸,X no 6 ã ôL8 ?š Ò Ä

snmp-server view *view-name oid-tree* {**include** | **exclude**}

no snmp-server view *view-name* [*oid-tree*]

Ï – DAÈ â Đ

view-name Ö?š Ò á Ä

oid-tree Ö ?š Ò G6(,X MIB ÍB5 È Ô É MIB $ å Ä

include Ö Û âA¹ MIB ÍB5 $ å>• Ù ÿ ü?š Ò Y Ä

exclude Ö Û âA¹ MIB ÍB5 $ å>• fL8 ü?š Ò ê Ä

Ï5 ,ÕA'5B Đ

5 ,ÕA'5B Ô þ default?š Ò È AŒA"KÂ Ý,X MIB ÍB5 Ä

Ï Q ¸ õ ã Đ

< G!5B õ ã

Ï _ Đ

ßM6,X/ _A'5B Ô þ?š Ò È Ù À Ý,X MIB-2 $ å Äoid 1.3.6.1 ÅÖ

```
Ruijie(config)# snmp-server view mib2 1.3.6.1 include
```

Ï,Ì G Q ¸ Đ

show snmp mib / 2Ï4³ Õ,X snmp mib µ C ×

show snmp user / snmp*ü µ C ×

show snmp view / snmp?š Ò µ C ×

show snmp group / snmp*ü 4˜ µ C ×

Ï _Ð

ßM6,X/ _ SNMP,X Ô þ4³Au µ C Ö

```
Ruijie# show snmp
Chassis: 60FF60
0 SNMP packets input
0 Bad SNMP version errors
0 Unknown community name
0 Illegal operation for community name supplied
0 Encoding errors
0 Number of requested variables
0 Number of altered variables
0 Get-request PDUs
0 Get-next PDUs
0 Set-request PDUs
0 SNMP packets output
0 Too big errors (Maximum packet size 1500)
0 No such name errors
0 Bad values errors
0 General errors
0 Response PDUs
0 Trap PDUs
SNMP global trap: disabled
SNMP logging: disabled
SNMP agent: enabled
```

Ï,Ì G Q ¸Ð

Q ¸	AÈ â
snmp-server *chassis-id*	SNMP2Ï4³ c ë Ë

4 ´ APM z ¹ w W

4.1 ´ ü » w W

4.1.1 apm sample enable

' Ô APM µ C Ô G

apm sample enable

GKÁAPM µ C Ô G

no apm sample enable

– D	£EÄ

4.1.2 apm sample interval

A’5B APM < G›*ü < ó

apm sample default interval *second*

no apm sample default interval

)(ÀA’5B Ø µ CG› < ó

apm sample { cpu-mem | sata-flash | vpn | vpn-detail | ip-session | intf-flowrate | app-type-flowrate | app-flowrate | user-flowrate | ping-detect | business } interval *second*

no apm sample { cpu-mem | sata-flash | vpn | vpn-detail | ip-session | intf-flowrate | app-type-flowrate | app-flowrate | user-flowrate | ping-detect | business } interval

Ô <F¼ µ CG›

apm sample del-all-disable

– DAÈ â

– D	£EÄ
second	G› < ó È) !/¦ È ª 8× È 10-~3600

5 ,ÕG!5B

< APM G› < óT¬Ax 5 ÚJs ÈT¬Ax ´)(ÀA’5B Ä

Q ¸ õ ã

< G!5B õ ã Ä

S*ü Û Ð

)(ÀA’5B Ø APM µ C,XG› < ó È ´(M!^LÔ" È ´LÔ!8NMG!5B Ä Ã ¹EîE› no Q ¸ 9 ô L8)(À,X(M!^G!5B È 6 á S*ü < T¬Ax,XG› < ó Ä

G!5B –

_ 1 ÖG!5Bcpu Ã Y , µ CG›Lš ÊKÈ 10s

```
Ruijie(config)# apm sample cpu-mem interval 10
```

_ 2 ÖG!5B h*ü# G£G› < ó 10s

```
Ruijie(config)# apm sample app-flowrate interval 10
```

_ 3 Ö Ú h*ü# G£G› < ó ÊKÈ 6 á T¬Ax ÊKÈ

```
Ruijie(config)# no apm sample app-flowrate interval
```

¸Ì G Q ¸

Q ¸	£EÄ
-	-

AÈ â

-

G ÄAÈ â	-

Q ¸ Z Æ	(Ë	AÈ â
	10.3(4b11) p2	„ r Q ¸

4.1.3 apm sample ping-detect server

A’5B PING ”# ,X ”#

apm sample ping-detect server { *ip-address* | *host* } [ntimes *times*] [length *len*] [source {lan | *so-ip-address* | *interface-name* }]

ôL8 Û n ip-PING

Ruijie(config)# no apm sample ping-detect server 172.18.3.1

_ 3 Ö ôL8 Ý á u <

Ruijie(config)# no apm sample ping-detect server all

,Ì G Q ¸	Q ¸	£EÄ
	-	-

AÈ â Ú ÊKÈA’

G ÄAÈ â -

(Ë	AÈ â

G ÄAÈ â	-

Q ¸ Z Æ	(Ë	AÈ â
	10.3(4b11) p2	„ r Q ¸

4.1.7 apm user-log filter

G!5BA' Û uAu ¹ «,XE›$¸ +!‰

apm user-log filter *words*

ª#\G!5BA' Û uAu ¹ «E›$¸ +!‰ Ä

no apm user-log filter *words*

– DAÈ â	– D	£EÄ
	words	LÔ?UE›$¸,X +!‰

5 ,ÕG!5B	-

Q ¸ õ ã	< G!5B õ ã Ä

S*ü Û Ð	áLÔ?UA„),XA' Û uAu ¹ « È Ã ¹EîE›A¹ Q ¸ Û n GK +

G!5B _	_ 1 ÖG!5B áA„) ÿ Ý ,O) ,XA' Û uAu ¹ « Ä Ruijie(config)# apm user-log filter ,O) _ 2 Ö ª#\E›$¸G!5B Ä Ruijie(config)# no apm user-log filter ,O)

,Ì G Q ¸	Q ¸	£EÄ
	-	-

AÈ â	-

G ÄAÈ â	-

Q ¸ Z Æ	(Ë	AÈ â
	10.3(4b11) p2	„ r Q ¸

4.1.8 apm webpage enable

|5%NI tEQ5ë Ê4³Au,X s6Ñ

apm webpage enable

GKÁ5%NI tEQ5ë Ê4³Au,X s6Ñ Ä

no apm webpage enable

– DAÈ â

– D	£EÄ
-	-

5 ,ÕG!5B -

Q ¸ õ ã < G!5B õ ã Ä

S*ü Û Ð A¹ s6ÑT¬Ax ' Ô È ü"u ÝG!5BLÔ?U,¥ {,X5%NI,X ™ ‰ ß È Í û6Ñ"u Ý E ¡ Ä
V pG!5B Z8¹ F þ,¥ {,X5%NI È Ç 0!6,¥ { s6Ñ È í Ã ¹EÖ*ü GKÁ,X Q ¸ Ä

G!5B _

_ 1 Ö ' Ô5%NI tEQ5ë Ê4³Au,X s6Ñ Ä
Ruijie(config)# apm webpage enable

_ 2 Ö GKÁ5%NI tEQ5ë Ê4³Au,X s6Ñ Ä
Ruijie(config)# no apm webpage enable

,Ì G Q ¸

Q ¸	£EÄ
-	-

AÈ â ' Ô5%NI tEQ5ë Ê4³Au,X s6Ñ Ä

G ÄAÈ â -

Q ¸ Z Æ

(Ë	AÈ â
10.3(4b11) p2	„ r Q ¸

4.1.9 apm webpage url

G!5BLÔ?U,¥ {,X5%NI

apm webpage url *url-string*

ª#\G!5B,¥ {,X5%NI Ä

no apm webpage url [all | *url-string*]

– DAÈ â

– D	£EÄ
url-string	LÔ?U,¥ {,X5%NI

5 ,ÕG!5B

-

Q ¸ õ ã

< G!5B õ ã Ä

S*ü Û Ð

V p?U,¥ { ¤ þ5%NI,X tEQ5ë Ê ÈEîE› í Ã ¹EîE›A¹ Q ¸#Ï t Ä
V p?U ª#\ Í ¤ þ5%NI,X,¥ { È í S*ü Í h,X no Q ¸ Ä
no apm webpage url all ôL8 Ý,X5% G!5B Ä
E-G ,X URL 2'.B G! Ä

G!5B _

_ 1 ÖG!5B Ô þ,¥ {,X5%NI È V www.ietf.com Ä
Ruijie(config)# apm webpage url www.ietf.com/

_ 2 Ö ª#\ Ô þ,¥ {,X5%NI Ä
Ruijie(config)# no apm webpage url www.ietf.com/

_ 3 Ö ª#\ Ý,¥ {,X5%NI Ä
Ruijie(config)# no apm webpage url all

,Ì G Q ¸

Q ¸	£EÄ
-	-

AÈ â

-

G ÄAÈ â

-

Q ¸ Z Æ

(Ë	AÈ â
10.3(4b11) p2	„ r Q ¸

4.1.10 **apm conference-system enable**

Ô ?šNe îA,BüG£,¥ { s6Ñ Ä

apm conference-system enable

GKÁ?šNe îA,BüG£,¥ { s6Ñ

no apm conference-system enable

– DAÈ â	– D	£EÄ
	-	-

5 ,ÕG!5B	apm confere nce-system enable

Q ¸ õ ã	< G!5B õ ã Ä

S*ü Û Đ	EîE›G!5B Q ¸ |?šNe îA,BüG£,¥ { s6Ñ Ä Ã ¹ ü á ôL8 application ` access-list ,X ™ ‰ ß ÈEîE›no apm conference-system enable V Ê GKÁ?šNe îA,,¥ { s6Ñ Ä

G!5B _	_ 1 Ö Ô ?šNe îA,BüG£,¥ { s6Ñ Ä Ruijie(config)# apm conference-system enable _ 2 Ö GKÁ?šNe îA,BüG£,¥ { s6Ñ Ä Ruijie(config)# no apm conference-system enable

,Ì G Q ¸	Q ¸	£EÄ
	-	-

AÈ â	-

G ÄAÈ â	-

Q ¸ Z Æ	(Ë	AÈ â
	10.3(4b11) p2	„ r Q ¸

4.1.11 **apm conference-system application**

EîE› h*ü á Û n ¾ o D B# LÔ?UE¯> ?šNe îA,BüG£,¥ { Ä

apm conference-system application *app_name*

ôL8 ¤ Ô þ h*ü,XG!5B

no apm conference-system application *app_name*

ôL8 Ý h*ü,XG!5B

no apm conference-system application all

– DAÈ â

– D	£EÄ
app_name	h*ü á/Ä È á6Ñ all

5 ,ÕG!5B -

Q ¸ õ ã < G!5B õ ã Ä

S*ü Û Đ EîE›G!5B Q ¸ Ã ¹ Û n ¾ o D B# LÔ?UE¯> ?šNe îA,BüG£,¥ { Ä

G!5B _

_ 1 Ö Û n,¥ {4v å îA,2Ï4³,X?šNe îA, Ä
Ruijie(config)# apm conference-system application 4v å îA,2Ï4³

_ 2 Ö ôL8 Û n,¥ {4v å îA,2Ï4³ Ä
Ruijie(config)#no apm conference-system application 4v å îA,2Ï4³

_ 3 Ö ôL8 Ý h*ü Û n Ä
Ruijie(config)# no apm conference-system application all

,Ì G Q ¸

Q ¸	£EÄ
-	-

AÈ â -

G ÄAÈ â -

Q ¸ Z Æ

(Ë	AÈ â
10.3(4b11) p2	„ r Q ¸

4.1.12 apm conference-system access-list

EîE› ACL Û n ¾ o D B# LÔ?UE¯> ?šNe îA,BüG£,¥ { Ä

apm conference-system access-list *acl_id* alias *name*

ôL8 ¤ Ô þ ACL ,X Û n

no apm conference-system access-list *acl_id*

ôL8 Ý ACL ,X Û n

no apm conference-system access-list all

– DAÈ â

– D	£EÄ
acl_id	acl ,X id È ª 8× È 1~199
name	0ú Ü?˜ í,X D B# ,X ÿ á

5 ,ÕG!5B

-

Q ¸ õ ã

< G!5B õ ã Ä

S*ü Û Đ

EîE›G!5B Q ¸ Ã ¹ Û n ¾ o D B# LÔ?UE¯> ?šNe îA,BüG£,¥ { Ä

G!5B _

_ 1 Ö,¥ { IP Ö172.18.3.3 ` IP:172.18.3.8 KÈ,X Ý UDP # Ä

```
Ruijie(config)# access-list 150 permit udp 172.18.3.3 0.0.0.0 172.18.3.8 0.0.0
Ruijie(config)# apm conference-system access-list 150 alias kkk
```

_ 2 Ö ôL8 ÞEÄACL ,X Û n Ä

```
Ruijie(config)#no apm conference-system access-list 150
```

_ 3 Ö ôL8 Ý ACL Û n Ä

```
Ruijie(config)# no apm conference-system access-list all
```

,Ì G Q ¸

Q ¸	£EÄ
-	-

AÈ â

-

G ÄAÈ â

-

G!5BAPM ¹ « Q ¸

ip-address	APM ¹ « á u <,X IP
port	APM ¹ « á u <,X0Ã · Ë

5 ,ÕG!5B -

Q ¸ õ ã < G!5B õ ã Ä

S*ü Û Ð Ã ¹Eî E› tcp ` udp 9 Û n APM ¹ « ¥EÕG›*ü,X #A, ÈT¬Ax tcp #A, × Z ±A• µ C ,X ÃM4 û È ÎA, S*ü tcp #A,E¯> µ C ¥EÕ Ä Ô îG!5B 10 þ á u <
V p EîE›1u)Ú · 9 ¥EÕ ¹ « µ C È í Û n oob GK + Ä
?U ôL8 Ô þ á u < È S*ü no apm server name Q ¸ Ä

G!5B _

_ 1 ÃG!5B á u < rac È0Ã · 20000 Èudp #A,
Ruijie(config)# apm server rac 172.18.3.51 20000 udp

_ 2 Ã ôL8 á u < rac
Ruijie(config)# no apm server rac

_ 3 Ã ôL8 Ý á u <
Ruijie(config)# no apm server all

,Ì G Q ¸

Q ¸	£EÄ
-	-

AÈ â -

G ÄAÈ â -

Q ¸ Z Æ

(Ë	AÈ â
10.3(4b11) p2	„ r Q ¸

4.1.15 apm template send-period

A'5B APM ¹ « õ S,X ¥EÕ < ó

apm template send-period *seconds*

Ú õ S ¥EÕ ÊKÈ 6 á T¬Ax

no apm template send-period

– DAÈ â	– D	£EÄ	
	seconds	n Ê ¥EÕ õ S ÊKS È) ! /¦ È ª 8× È	60~3600

5 ,ÕG!5B apm template send -period 300

Q ¸ õ ã < G!5B õ ã Ä

S*ü Û Ð õ S ¥EÕ < ó ÈT¬Ax 5min ÄAPM ¹ « á u < Ä 3 RAC á u < Å B õ S 9E¯ > ¹ « ã ¤ ª?· d,X È n ó ¥EÕ õ S4- á u < È Ã ¹FS ! á u < õ S D B ö Ê Ä V G¡ ê î Þ4“ Å ´"©E¯> #\ C?· d Ä

G!5B _

_ 1 ÃG!5B õ S ¥EÕ ÊKÈ 60s

Ruijie(config)# apm template send-period 60

_ 2 Ã Ú õ S ¥EÕ ÊKÈ 6 á T¬Ax

Ruijie(config)# no apm template send-period

,Ì G Q ¸	Q ¸	£EÄ
	-	-

AÈ â -

G ÄAÈ â -

Q ¸ Z Æ	(Ë	AÈ â
	10.3(4b11) p2	„ r Q ¸

4.1.16 apm export-length

A’5B APM ¹ « y [Ý D B,X Ô ûKS z

apm export-length *value*

6 áT¬AxG!5B

no apm export-length

– DAÈ â	– D	£EÄ
	value	ipfix y [Ý D B,XKS z È¢ ¢ TCP ê UDP Ý D B1kCK È) ! +8V È ª 8× È 300~1400

5 ,ÕG!5B	apm expor t-length 1400
Q ¸ õ ã	< G!5B õ ã Ä

S*ü Û Ð

T¬Ax 1000 þ/ /¦ Ä´(M ÿLÔ" È ÎA, S*üT¬Ax G Ã ÄE›P¬,XG!5B Ã6Ñ Ð7È CPU # P¬ ÄE› ",XG!5B Ã6Ñ Ð7È ¹ « µ C ö Ä

G!5B _

_ 1 ÃG!5B!£/¦Js ¥EÕ 100 þ ipfix D B È G8V&• È5àM2 y [D

Ruijie(config)# apm export-rate 100

_ 2 Ã Ú!£/¦ ¥EÕ8V&• D 6 á T¬Ax

Ruijie(config)# no apm export-rate

,Ì G Q ¸

Q ¸	£EÄ
-	-

AÈ â

-

G ÄAÈ â

-

Q ¸ Z Æ

(Ë	AÈ â
10.3(4b11) p2	„ r Q ¸

4.1.18 **apm log-type**

A'5B APM ¹ « T ¾ þ á u < ¥EÕ

apm log-type {*type* | default } priority *prio* server *name*

ôL8,Ì GG!5B

no apm log-type { type | default | all }

– DAÈ â

– D	£EÄ
type	APM #\ C2O _ ÈîE› show apm log-type ¹,ß!£ þ D ·><,X#\ C2O _ Ä
prio	G!5B,X#\ C2O _ Í h,X ì 4{ È ª 0-2 È J 0 ,X ì 4{ ÔP¬
name	#\ C2O _ ¥ TFw þ á u <

5 ,ÕG!5B

-

Q ¸ õ ã

< G!5B õ ã Ä

S*ü Û Ð

A'5B#\ C ì 4{ ¹ ž ¥ T ¾ þ APM á u < È Ô þ#\ C ¾6Ñ T Ô þ á u < ¥EÕ Ädefault ><⁄ (M!^G!5B,XL8 ê È J - Ý ¹ «FÑ TA¹ á u < ¥ Ä Ô8 ™ ‰ ß È å À ¾LÔ?UG!5B Ô

þ default ,X G Ã Ä

ôL8 Ý#\ C2O _ È S*ü Q ¸ no apm log-type all

ôL8 default #\ C2O _ È S*ü Q ¸ no apm log-type default

ôL8 ¤ Ô þ#\ C2O _ È S*ü Q ¸ no apm log-type type Ä J A¹ type Û,X Æ4£>•)(À G!5BE› á u <,X#\ C2O _ Ä

G!5B _

_ 1 ÃT¬Ax Ú Ý#\ C2O _FÑ ¥ á u < rac È ì 4{ 0

Ruijie(config)# apm log-type default priority 0 server rac

_ 2 Ã ôL8T¬Ax#\ C2O _,XG!5B

Ruijie(config)# no apm log-type default

_ 3 Ã ôL8 Ý#\ C2O _ Í h á u <,XG!5B

Ruijie(config)# no apm log-type all

_ 4 Ã Ú log-type 1 ,X#\ C2O _ ¥ á u < ruijie È ì 4{ 1

Ruijie(config)#apm log-type 1 priority 1 server ruijie

_ 5 Ã Ú log-tye 1 ,X#\ C2O _,X(M!^G!5B ôL8

Ruijie(config)# no apm log-type 1

,Ì G Q ¸

	£EÄ
-	-

AÈ â

-

– DAÈ â	– D	£EÄ
	-	-

5 ,ÕG!5B	-

Q ¸ õ ã	(M õ ã

S*ü Û Ð	¹,ßG!5B Z ¾ o î u Ä h*ü ÅLÔ?U,¥ { D B tEQEó)[

G!5B _	_ 1 Ö ¹,ßG!5B Z ¾ o î u Ä h*ü ÅLÔ?U,¥ { D B tEQEó)[Ruijie#show apm sample business info J ª TCP BQQ QQ-,O)| 6 ý MAPI DNS telnet NETBIOS-NS

,Ì G Q ¸	Q ¸	£EÄ
	-	-

AÈ â	-

G ÄAÈ â	-

Q ¸ Z Æ	(Ë	AÈ â
	10.3(4b11) p2	„ r Q ¸

4.2.2 show apm sample log-sends

¹,ß Ø2OG› î u,X < ó

show apm sample log-sends

– DAÈ â

5 ,ÕG!5B	-
Q ¸ õ ã	(M õ ã
S*ü Û Ð	¹,ß Ø2OG› î u,X < ó
G!5B _	_ 1 Ö ¹,ß Ø2OG› î u,X < ó Ruijie#show apm sample log-sends log-name interval cpu-mem 10 sata-flash 10 ip-session 10 intf-flowrate 10 app-type-flowrate 10 app-flowrate 10 user-flowrate 10 vpn 10 vpn-detail 10 business 10 ping-detect 10 url-topn 300

,Ì G Q ¸

– DAÈ â	– D	£EÄ
	-	-

5 ,ÕG!5B	-

Q ¸ õ ã	< G!5B õ ã

S*ü Û Ð	¹,ß*ü G!5B,XPING ”# µ C

G!5B _	_ 1 Ö ¹,ß*ü G!5B,X PING ”# µ C Ruijie#show apm sample ping-detect info ---------- server1:172.18.3.1 ntimes:10 length:1400 source: ---------- server2:172.18.3.100 ntimes:10 length:1400 source:

,Ì G Q ¸	Q ¸	£EÄ
	-	-

5 ,ÕG!5B	-
Q ¸ õ ã	< G!5B õ ã
S*ü Û Ð	¹,ß*ü G!5B,XURL-TOPN µ C
G!5B _	_ 1 Ö ¹,ß*ü G!5B,X URL-TOPN µ C Ruijie#show apm sample url-topn info send-clock: 1 send-topn: 50

S*ü Û Đ ¹,ß APM

4.2.6 show apm server log-count

¹,ß APM ¹ « ¥EÕ ™ ‰

show apm server log-count

– DAÈ â	– D	£EÄ
	-	-

5 ,ÕG!5B -

Q ¸ õ ã (M õ ã

S*ü Û Đ ¹,ß apm ¹ « ¥EÕ ™ ‰

_ 1 ÖRuijie#show apm server log-count
Server : server1
Send node num Ö10 send packet : 24692 error packet : 380

G!5B _

<8>vpn-infomation , send log num: 8
<9>vpn-detail , send log num: 9
<10>webpage-time , send log num: 0
<11>conference-system , send log num: 10
<12>config-infomation , send log num: 10
<13>business-flowrate , send log num: 10
<14>ping-detect , send log num: 10
<15>url-top-n , send log num: 10
<16>tcp-performance , send log num: 10
<17>udp-performance , send log num: 10

,Ì G Q ¸

Q ¸	£EÄ
-	-

AÈ â -

G ÄAÈ â -

Q ¸ Z Æ

(Ë	AÈ â
10.3(4b11) p2	„ r Q ¸

4.2.7 show apm tcp-measure info

¹,ß tcp-measure ,XE¤> µ C Ä

show apm tcp-measure info

– DAÈ â

– D	£EÄ
-	-

5 ,ÕG!5B -

Q ¸ õ ã (M õ ã

S*ü Û Ð S*üA¹ Q ¸ Ã ¹ ¹,ß tcp #A, û6Ñ# G£ V ‰ È Ù À!7 ü# G£,X# þ D ÈG¡ Ù4³Au D ÈEg Î ¹ « D1 Ä

ð

'Íð

ß

	Send Logs: 988

,Ì G Q ¸	Q ¸	£EÄ
	-	-

AÈ â	-

G ÄAÈ â	-

Q ¸ Z Æ	(Ë	AÈ â
	10.3(4b11) p2	„ r Q ¸

4.2.8 show apm udp-measure info

¹,ß ' !?šNe îA,,¥ {,X UDP # ™ ‰ Ä

show apm udp-measure info

– DAÈ â	– D	£EÄ
	-	-

5 ,ÕG!5B	-

	-	-
AÈ â	-	
G ÄAÈ â	-	
	(Ë	