

??????

- [\[\] \[\] \[\] \[\] \[\] \[\] IP \[\] \[\]](#)
- [\[\] \[\] C3945 \[\] \[\] \[\] \[\] \[\] \[\]](#)
- [\[\] Cisco 3560E \[\] \[\] \[\] \[\] \[\] \[\] debug \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\]](#)
- [\[\] \[\] \[\] H3C AC Ldap \[\] \[\] \[\] \[\]](#)
- [OpenWrt/ImmortalWrt \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] 218 \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\]](#)
- [cisco \[\] \[\] nat \[\] \[\] \[\] \[\] \[\] \[\] --NVI](#)
- [\[\] \[\] \[\] \[\] cisco3945 flash \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\]](#)

???????IP??

```
show process cpu sorted | ex 0.00
```

```
   CPU      100%
```

```
sh ip nat statistics
```

```
show ip cache flow   ip
```

```
   192.168.0.21
```

```
ip nat translation max-entri all-host 1000   IP      1000
```

```
NAT      NAT      CPU
```

```
ip nat translation timeout 120
```

```
ip nat translation tcp-timeout 300
```

```
ip nat translation udp-timeout 60
```

```
ip nat translation finrst-timeout 30
```

```
120   NAT
```

```
300   TCP      86400
```

```
60   UDP
```

```
30   TCP FIN/RST      NAT
```

```
   0.21      cpu
```

```
access-list 121 deny ip host 192.168.0.21 any
```

```
access-list 121 permit ip any any
```

```
interface GigabitEthernet0/1
```

```
ip access-group 121 in
```

```
   0.21   QOS      1024kbps
```

```
access-list 21 permit ip host 192.168.0.21 any
```

```
class-map match-any LIMIT_021
```

```
match access-group 21
```

```
policy-map POLICE_021
```

```
class LIMIT_021
```

```
  police 1024000 conform-action transmit exceed-action drop
```

```
interface GigabitEthernet0/1
service-policy input POLICE_021
```

?? C3945 ?????????

?? C3945 ?????

?? C3945 ???? HSRP? Hot Standby Router Protocol????????????

HSRP ? VRRP ???? HSRP ????? VRRP ?????

?? 1? HSRP????

HSRP???????????????????????? IP???????? Active????????

Standby????

????

???? Active?? C3945? IP 192.168.11.251

???? Standby?? C3945? IP 192.168.11.252

???? IP???????? 192.168.11.254

???????? 120?? 100???????? 100

HSRP ????? 192.168.11.251?

interface GigabitEthernet0/1

ip address 192.168.11.251 255.255.255.0

standby 1 ip 192.168.11.254 # ???? IP

standby 1 priority 120 # ?????

standby 1 preempt # ?????????

standby 1 authentication md5 key-string cisco # HSRP ?

HSRP ????? 192.168.11.252?

interface GigabitEthernet0/1

ip address 192.168.11.252 255.255.255.0

standby 1 ip 192.168.11.254

standby 1 priority 100 # ?????

standby 1 preempt

standby 1 authentication md5 key-string cisco

????

?? HSRP ?

show standby brief

???? Active??? "Active"

???? Standby??? "Standby"

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[illegible]

```
interface GigabitEthernet0/1
shutdown
```

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ show standby brief ☐ ☐ ☐ ☐ "Active" ☐

--	--	--	--	--	--

```

00 preempt 00000000000000000000000000000000

```

2 VRRP

VRRP Virtual Router Redundancy Protocol HSRP

HSRP  Cisco 
VRRP  Cisco  H3C 

VRRP [|||||] 192.168.11.251[]

```
interface GigabitEthernet0/1
ip address 192.168.11.251 255.255.255.0
vrrp 1 ip 192.168.11.254 # [ ] [ ] [ ] [ ] IP
vrrp 1 priority 120 # [ ] [ ] [ ] [ ] [ ]
vrrp 1 preempt # [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]
```

```
VRRP [ ] [ ] [ ] [ ] [ ] [ ] [ ] 192.168.11.252 [ ]
```

```
interface GigabitEthernet0/1
ip address 192.168.11.252 255.255.255.0
vrrp 1 ip 192.168.11.254
vrrp 1 priority 100 # [ ] [ ] [ ] [ ]
vrrp 1 preempt
```

$$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix} 3 \text{ GLBP} \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix} + \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

GLBP Gateway Load Balancing Protocol

192.168.11.251

```
interface GigabitEthernet0/1
ip address 192.168.11.251 255.255.255.0
glbp 1 ip 192.168.11.254 # [ ] IP
glbp 1 priority 120 # [ ]
glbp 1 preempt
```

glbp 1 load-balancing round-robin # [] [] [] [] [] []

GLBP [] [] [] [] [] [] 192.168.11.252 []

interface GigabitEthernet0/1
ip address 192.168.11.252 255.255.255.0
glbp 1 ip 192.168.11.254
glbp 1 priority 100 # [] [] [] [] [] []
glbp 1 preempt

[] [] [] [] []
[] [] [] [] [] [] [] [] [] []
HSRP [] [] [] [] [] [] [] [] [] [] [] []
VRRP [] [] [] [] [] [] [] [] [] [] [] []
GLBP [] [] [] [] + [] [] [] [] [] [] [] [] [] [] [] []

[] []

[] [] [] [] [] [] [] [] [] [] [] [] HSRP [] [] [] [] [] [] VRRP [] [] [] []
[] [] [] [] [] [] + [] [] [] [] [] [] GLBP [] [] [] [] [] [] [] [] [] [] [] []

[] []

[] [] [] [] HSRP [] [] [] [] [] [] VRRP [] [] [] [] GLBP [] [] [] [] Cisco 3945 [] [] [] [] [] [] [] [] [] [] [] []

HSRP/VRRP [] [] [] [] [] []
GLBP [] [] [] [] [] [] + [] [] [] [] [] []

[] [] [] [] [] [] [] [] [] [] [] [] Cisco [] [] [] [] [] [] VRRP [] [] [] [] [] [] [] [] [] [] [] []

? Cisco 3560E ???????? debug
????????????????

```

Cisco 3560E
debug

```

1.

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☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ debug ☐ ☐ ☐ ☐ ☐

```
show interfaces {interface_id}
```

11

```
show interfaces GigabitEthernet0/1
```

```
debug interface {interface_id}
```

111

```
debug interface GigabitEthernet0/1
```

2. IP

IP

```
debug ip packet
```

□□□□□ ACL□□□□□□□□□□□□□□□□

debug ip packet detail

3. MAC

MAC

```
debug ethernet mac
```

4. 配置 VLAN 10

配置 VLAN 10

debug vlan packet

5. 配置 STP 10

配置 STP 10

debug spanning-tree events

6. 配置 ACL 10

配置 ACL 10

debug ip access-list

7. 配置 10

show debugging

8. 配置 10

配置 10

undebug all

配置 10

no debug all

配置 10

配置 10 debug 配置 CPU
配置 10 logging buffer 配置 syslog 配置

???H3C AC Ldap????

```
# [] LDAP [] ldap[] LDAP []
[H3C] ldap server ldap //[] ldap []
# [] DN
[H3C-ldap-server-ldap] login-dn cn=admin,cn=users,dc=shuncom,dc=local //[] DN
# []
[H3C-ldap-server-ldap] search-base-dn dc=shuncom,dc=local //[]
# [] LDAP [] IP []
[H3C-ldap-server-ldap] ip 192.168.0.5 //[] ldap [] ip
# []
[H3C-ldap-server-ldap] login-password simple XXXXXXXXXX //[]
# [] LDAP [] ldap[] LDAP []
[H3C] ldap scheme ldap //[] ldap []
# [] LDAP []
[H3C-ldap-ldap] authentication-server ldap //[] ldap []
```

```
# [] ISP [] ldap[] ISP []
[H3C] domain ldap //[]
# [] Portal [] AAA [] LDAP []
[H3C-isp-ldap] authentication portal ldap-scheme ldap //[] ldap []
[H3C-isp-ldap] authorization portal none //[]
[H3C-isp-ldap] accounting portal none //[]
# [] ISP [] ldap [] 15 [] 1024 []
[H3C-isp-ldap] authorization-attribute idle-cut 15 1024 //[]
```

```
# [] Portal Web [] URL [] http://192.168.10.21/portal/
[H3C] portal web-server newpt //[] portal web []
[H3C-portal-websvr-newpt] url http://192.168.10.21/portal/ //[] url []
# [] Portal Web [] Portal Web [] HTTP []
[]
[H3C] portal local-web-server http //[] portal wen [] http []
# [] Portal Web [] xxx.zip[]
[]
[] defaultfile.zip[]
[H3C-portal-local-websvr-http] default-logon-page defaultfile.zip //[] web []
[H3C-portal-local-websvr-http] quit
```

```
[H3C] wlan service-template shuncom-wk-ac //[]
[H3C-wlan-st-shuncom-wk-ac] ssid service //[] wifi []
[H3C-wlan-st-shuncom-wk-ac] vlan 1 //[] vlan
# [] Portal []
```

```
[H3C-wlan-st-shuncom-wk-ac] portal enable method direct //portal
# Portal ldap
[H3C-wlan-st-shuncom-wk-ac] portal domain ldap //portal
# newpt Portal Web Web
[H3C-wlan-st-shuncom-wk-ac] portal apply web-server newpt //portal web
#
[H3C-wlan-st-shuncom-wk-ac] service-template enable //
```

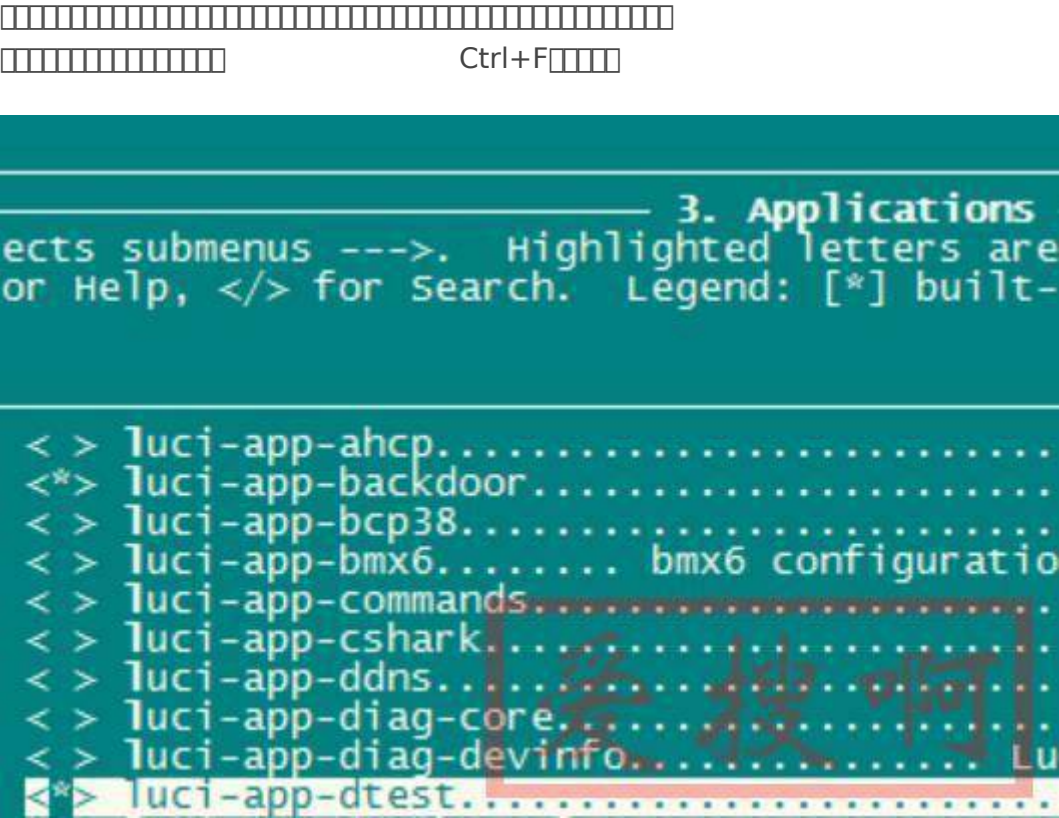
```
# AP
[H3C] dis wlan ap all
AP name          APID State Model      Serial ID
a069-d95e-5620    1   R/M  WAP922      219801A2VSXXXXXXCX
```

```
# AP
[H3C] wlan ap a069-d95e-5620 model WAP922 //AP
[H3C-wlan-ap-a069-d95e-5620] serial-id 219801A2VSXXXXXXCX //AP
[H3C-wlan-ap-a069-d95e-5620] radio 2 //
[H3C-wlan-ap-officeap-radio-2] service-template shuncom-wk-ac //
[H3C-wlan-ap-officeap-radio-2] radio enable //
```

OpenWrt/ImmortalWrt

????????????218

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- 1

Luci-app-accesscontrol

Luci-app-appfilter

Luci-app-timecontrol
- 2

DNS

Luci-app-smartdns

Luci-adblock

Luci-dnscrypt-proxy
- 3

Luci-app-mentohust

Luci-airwhu

Luci-scutclient

Luci-cd8021x[] 802.1X[]

[]

1[] []

Luci-app-banip[] IP

Luci-app-bcp38[] IP[]

Luci-app-fwknopd[]

2[] []

Luci-app-https-dns-proxy[] DNS[]

Luci-app-polipo/privoxy[]

Luci-app-“[]”[]

Trojan/Xray/Hysteria[]

[] / []

1[] []

Luci-app-aria2[] /BT/[]

Luci-transmission[] PT[]

Luci-amule[]

2[] [] / []

Luci-alist[] /OneDrive

Luci-rclone[] Google Drive

Luci-verysync[] “[] ”

3[] []

Luci-diskman[] Btrfs/RAID[]

Luci-cifs[] NAS[]

Luci-ksmbd[] Samba[]

[]

1[] []

Luci-minidlna[] Netflix

Luci-mjpg-streamer[]

Luci-udpxy[] IPTV[]

2[] []

Luci-unblocknetease[]

Luci-airplay2[] AirPlay[]

[] virtual/[]

1[] []

Luci-zerotier[]

Luci-frpc/frps[]

Luci-nps[]

2[] virtual[]

Luci-openvirtual[] virtual[]

Luci-wireguard[]

Luci-ipsec[]

[]

1 网络

Luci-mwan3

Luci-turboacc BBR + NAT

Luci-nft-qos nftables

2 其他

Luci-docker/dockerman

Luci-ttyd SSH

Luci-commands Linux

3 其他

Luci-oled

Luci-cpufreq / CPU

Luci-hd-idle

Luci-vlmcsd KMS

Luci-watchcat

Luci-ser2net

Luci-dump1090 ADS-B SDR

Luci-ps3netsrv PS3

Luci-ramfree

/

Luci-minieap EAP

Luci-bitstrunlogin-go " " "

Luci-sysuh3c

Luci-njitclient

/

Luci-netdata

Luci-nlbwmon

Luci-cshark tcpdump

Luci-diag-core Ping/Traceroute

Luci-bmx6/bmx7 Mesh

Luci-cjdns IPv6

Luci-bird BGP

Luci-yggdrasil IPv6

Openwrt ImmortalWrt

Luci-app-accesscontrol

Luci-app-acl

ACL

Let's Encrypt SSL

☐ DNS ☐

Adbyby+

[illegible][illegible]

□□ AirPlay 2 □□□□□□□□□□

DDNS

OneDrive

eMule

--	--	--	--	--	--

Argon

Aria2 ☐☐☐☐☐☐☐☐ HTTP/BT/☐☐☐☐

IP-MAC

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 ARP

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Luci-app-autoreboot

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Luci-app-babeld

Babel ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Luci-app-baidupcs-web

☐ ☐ ☐ ☐ Web ☐ ☐ ☐ ☐

Luci-app-banip

IP ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ IP ☐ ☐

Luci-app-bcp38

☐ ☐ IP ☐ ☐ ☐ ☐ ☐ ☐ RFC 2827 ☐ ☐ ☐ ☐

Luci-app-beardropper

☐ IP ☐ ☐

Luci-app-bird1-ipv4

BIRD ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ IPv4 ☐ ☐

Luci-app-bird1-ipv6

BIRD ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ IPv6 ☐ ☐

Luci-app-bitsrunlogin-go

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ “☐ ☐ ☐ ☐ ”☐ ☐

Luci-app-bmx6

BMX6 ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Luci-app-bmx7

BMX7 ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Luci-app-brook-server

Brook ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Luci-app-cd8021x

802.1X ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Luci-app-cifs

CIFS/SMB ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Luci-app-cifs-mount

CIFS/SMB ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Luci-app-cjdns

☐ ☐ ☐ IPv6 ☐ ☐ ☐ ☐ ☐ ☐

Luci-app-clamav
☐ ClamAV ☐

Luci-app-commands
☐ Web ☐

Luci-app-cpufreq
CPU ☐ /☐

Luci-app-cpulimit
CPU ☐

Luci-app-cshark
☐ tcpdump☐

Luci-app-dawn
☐ Mesh ☐

Luci-app-dcwapd
☐

Luci-app-ddns
☐ DNS ☐

Luci-app-ddns-go
☐ DNS ☐ Go ☐

Luci-app-diag-core
☐

Luci-app-diskman
☐ Btrfs/RAID☐

Include btrfs-progs
Btrfs ☐

Include lsblk
☐

Include mdadm
RAID ☐

Luci-app-dnscrypt-proxy
DNS ☐

Luci-app-dnsforwarder
DNS ☐

Docker 

Docker 

ADS-B ☐

```
virtual**
```

Ethernet over IP □□□□

□□ IP □□□□□□ QoS□□

□□□□□□□□ /□□ /□□□□□□

Web ☐ ☐ ☐

Frp

--	--	--	--	--	--	--

Frp

--	--	--	--	--	--	--	--

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

 SPA ☐ ☐ ☐ ☐ ☐

GO

WebDAV ☐ ☐ ☐ ☐ ☐

Wi-Fi

HAProxy ☐☐☐☐☐ TCP ☐☐☐☐☐

HomeNet ☐ ☐ ☐

HTTPS DNS [] [] [] Cloudflare DNS-over-HTTPS [] []

IPSec virtual**

--	--	--	--	--	--

IPSec virtual** [][][][][][][][]

[illegible]

KCP □□□□□□□□□□

$$\begin{array}{|c|c|c|c|c|c|c|c|c|c|} \hline & & & & & & & & & \\ \hline \end{array} \quad / \quad \begin{array}{|c|c|c|c|c|c|} \hline & & & & & \\ \hline \end{array}$$

□□□ SMB □□□□□□

[illegible][illegible]

LED ☐☐☐☐☐☐☐☐☐☐

USB ☐☐☐☐

LXC

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SOCKS5

Luci-app-minidlna

DLNA ☐

Luci-app-minieap

☐ EAP ☐

Luci-app-mjpg-streamer

☐ MJPG ☐

Luci-app-msd-lite

☐ IPTV ☐

Luci-app-mtk

MTK ☐

Luci-app-mtwifi-cfg

MTK ☐

Luci-app-music-remote-center

☐ UPnP/DLNA☐

Luci-app-mwan3

☐

Luci-app-mwan3helper

☐

Luci-app-mwol

☐ Wake-on-LAN☐

Luci-app-n2n

N2N ☐ virtual** ☐

Luci-app-naiveproxy

NaiveProxy ☐

Luci-app-natmap

NAT ☐

Luci-app-netdata

☐

Luci-app-nextdns

NextDNS ☐ DNS ☐

Luci-app-nfs

NFS ☐

Luci-app-nft-qos

☐ nftables ☐ QoS☐

Luci-app-nginx-pingos

Nginx ☐

Luci-app-ngrokc

Ngrok ☐

Luci-app-njitclient

☐

Luci-app-nlbwmon

☐

```

Luci-app-nps
NPS ██████████
Luci-app-ntpc
NTP ██████████
Luci-app-nut
UPS ██████████
Luci-app-ocserv
Cisco AnyConnect █████ virtual** █████
Luci-app-oled
OLED ████████████████████
Luci-app-olsr
OLSR ██████████
Luci-app-olsr-services
OLSR ██████████
Luci-app-olsr-viz
OLSR ██████████
Luci-app-omcproxy
██████████ IPTV████
Luci-app-open████
████ ████████████
Luci-app-openvirtual**
Openvirtual** ████████
Luci-app-openvirtual**-server
Openvirtual** ████████
Luci-app-opkg
██████████ /██████████
Luci-app-oscam
████████████████████
Luci-app-p910nd
██████████ RAW █████
Luci-app-pagekitec
Pagekite ██████████
Luci-app-"██████████"
██████████ SS/Trojan/Xray █████
Luci-app-polipo
HTTP ██████████ SOCKS █████
Luci-app-pppoe-relay
PPPoE ████████████
Luci-app-pppoe-server
PPPoE ████████████
Luci-app-privoxy
██████ HTTP █████
Luci-app-ps3netsrv
PS3 ██████████
Luci-app-qbittorrent
qBittorrent BT ████████

```

Luci-app-qos

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ QoS ☐ ☐ ☐ ☐

Luci-app-radicale

CalDAV/CardDAV ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Luci-app-radicale2

CalDAV/CardDAV ☐ ☐ ☐ ☐ ☐ ☐ ☐

Luci-app-ramfree

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Luci-app-rclone

Rclone ☐ ☐ ☐ ☐ ☐ ☐ ☐ Google Drive ☐ ☐ ☐

Include rclone-webui

Rclone ☐ Web ☐ ☐ ☐ ☐

Include rclone-ng

Rclone ☐ ☐ ☐ ☐ Web ☐ ☐ ☐ ☐

Luci-app-rp-pppoe-server

Roaring Penguin PPPoE ☐ ☐ ☐ ☐

Luci-app-samba4

Samba ☐ ☐ ☐ ☐ ☐ ☐ SMB/CIFS ☐ ☐ ☐ ☐

Luci-app-scutclient

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Luci-app-ser2net

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Luci-app-“☐ ☐ ☐ ☐ ☐ ☐ ”s-libev

“☐ ☐ ☐ ☐ ☐ ☐ ”s ☐ ☐ ☐ ☐

Luci-app-shairplay

AirPlay ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Luci-app-siitwizard

IPv6 ☐ ☐ ☐ ☐ SIIT ☐ ☐ ☐ ☐

Luci-app-simple-adblock

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Luci-app-smartdns

SmartDNS ☐ ☐ DNS ☐ ☐ ☐ ☐ /☐ ☐ ☐ ☐

Luci-app-smstool

☐ ☐ ☐ ☐ ☐ ☐ 4G ☐ ☐ ☐ ☐

Luci-app-snmpd

SNMP ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Luci-app-socat

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Luci-app-softether

SoftEther virtual** ☐ ☐ ☐ ☐ ☐ ☐

Luci-app-softethervirtual**

SoftEther virtual** ☐ ☐ ☐ ☐ ☐ ☐

Luci-app-softethervirtual**5

SoftEther virtual** ☐ ☐ ☐ ☐ ☐ ☐

Luci-app-speederv2

UDP ☐ ☐ ☐ ☐ ☐ ☐ /☐ ☐ ☐ ☐

```

Luci-app-splash
##### Wi-Fi #####
Luci-app-sqm
##### QoS #####
Luci-app-squid
Squid #####
Luci-app-"#####"-libev-server
"#####"sR #####
Luci-app-"#####"-mudb-server
"#####"sR #####
Luci-app-"#####"-plus
"#####"sR #####
Include china-dns-NG
## DNS ##### /#####
Include Hysteria
Hysteria #####
Include ipt2socks
# iptables ## SOCKS5 ##
Include Kcptun
KCP #####
Include NaiveProxy
NaiveProxy #####
Include "#####"s2
"#####"s2 ##### TCP/UDP##
Include "#####"s Simple obfs Plugin
"#####"s #####
Include "#####"s "#####" Plugin
"#####"s "#####" ##
Include "#####"sR Libev Client
"#####"sR ## Libev ##
Include "#####"sR Libev Server
"#####"sR ## Libev ##
Include Trojan
Trojan ####
Include tuic-client
Tuic #####
Luci-app-"#####"server-python
"#####"sR ## Python ##
Luci-app-statistics
##### CPU/## /#####
Luci-app-syncdial
#####
Luci-app-syncthing
Syncthing #####
Luci-app-sysuh3c
#####

```

Luci-app-tinypoxy

Luci-app-transmission

Luci-app-travelmate

[illegible]

Luci-app-trojan-server

Trojan

--	--	--	--	--	--

Luci-app-ttyd

SSH ☐

Luci-app-turboacc

Fast Path/ NAT

Enable BBR CCA

BBR

Luci-app-udp2raw

UDP

--	--	--	--	--	--	--	--

 QoS

--	--	--	--

Luci-app-udpxy

IPTV HTTP

Luci-app-uhttpd

uHTTpd Web ☐☐☐☐

Luci-app-unblockneteasemusic

Luci-app-unbound

Unbound DNS ☐☐☐☐☐☐ DNS ☐☐☐☐

Luci-app-upnp

UPnP

--	--	--	--	--	--	--	--	--	--

 /P2P

--	--	--

Luci-app-usb-printer

USB ☐ ☐ ☐ ☐ ☐ ☐

Luci-app-usb3disable

□□ USB 3.0 □□□□□□□□□□

Luci-app-uugamebooster

UU

--	--	--	--	--	--	--

Luci-app-“”-server

“ ”

[illegible]

“ ”

Luci-app-verysync

Verysync [] Resilio Sync []

Luci-app-vlmcsd

KMS ☐☐☐☐☐☐ Windows/Office ☐☐☐

Luci-app-vnstat

$$\begin{array}{|c|c|c|c|c|c|c|c|c|c|} \hline & & & & & & & & & \\ \hline \end{array} \quad / \quad \begin{array}{|c|c|c|c|c|} \hline & & & & \\ \hline \end{array}$$

Luci-app-vnstat2
[]
Luci-app-virtual**-policy-routing
virtual** []
Luci-app-virtual**bypass
virtual** [] IP/[]
Luci-app-vsftpd
FTP []
Luci-app-v“[] ”
“[] ”sR []
Include Hysteria
Hysteria []
Include Kcptun
KCP []
Include “[] ”sR Libev Server
“[] ”sR [] Libev []
Include Trojan
Trojan []
Include Xray
Xray [] “[] ” []
Include “[] ”s Xray Plugin
“[] ”s Xray []
Luci-app-watchcat
[]
luci-app-webadmin
Web []
luci-app-webrestriction
[] /URL[]
luci-app-weburl
[] Web []
luci-app-wechatpush
[]
luci-app-wifischedule
Wi-Fi []
luci-app-wireguard
WireGuard virtual** []
luci-app-wol
[] Wake-on-LAN[]
luci-app-xinetd
[]
luci-app-xlnetacc
[]
luci-app-yggdrasil
Yggdrasil [] IPv6 []
luci-app-zerotier
ZeroTier []

1. 搭建环境

1.1 安装系统

1.1.1 安装 Adblock
1.1.2 安装 Adbyby+
1.1.3 安装 SmartDNS
1.1.4 安装 DNSForwarder
1.1.5 安装 Aria2/QBittorrent

2. 搭建应用

2.1 安装 Docker
2.2 安装 Alist/Rclone

3. 搭建网络

3.1 搭建内网
3.2 搭建 KMS

4. 搭建其他

4.1 搭建 Plus/Go
4.2 搭建 Adbyby-plus
4.3 搭建 -server
4.4 搭建 Frps
4.5 搭建 CDN
4.6 搭建其他

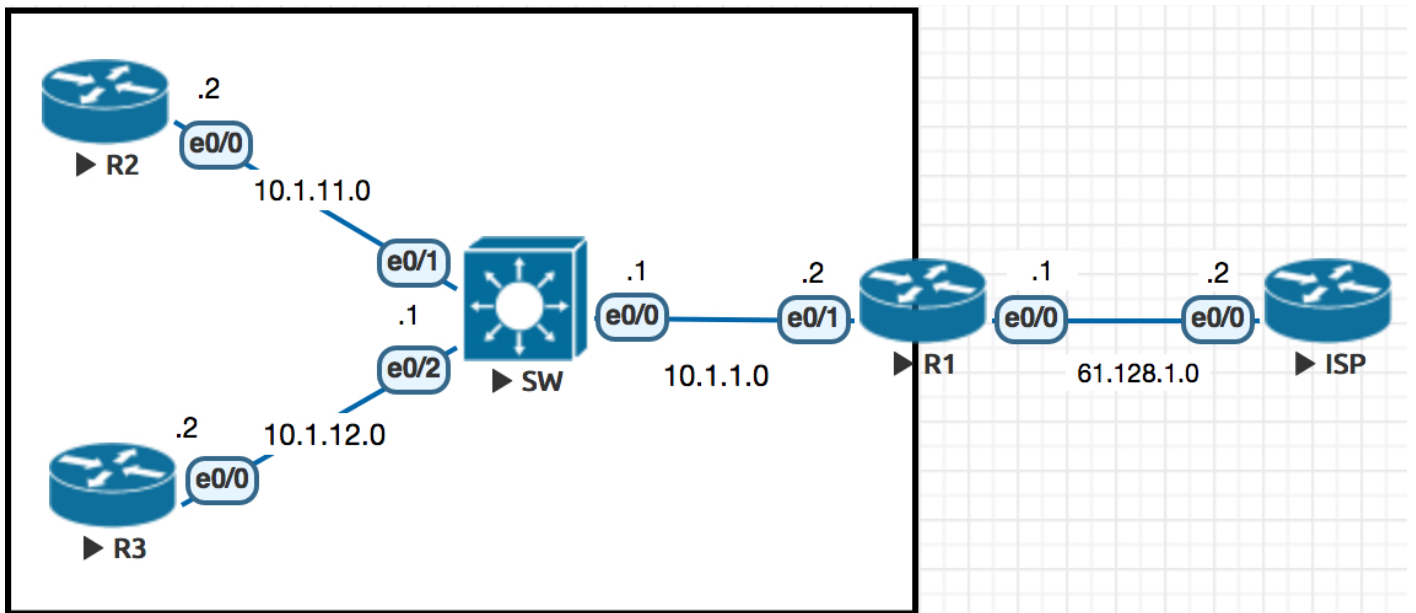
Diagram illustrating a 3D convolution operation. The input consists of three planes (10x10x3). A 3x3x3 kernel is applied to these planes to produce a single output plane (8x8x1). The output is then concatenated with the original input planes to form a final 10x10x4 volume.

<http://blog.csdn.net/dog250>

Virtual Interface

The diagram illustrates the evolution of NAT and IPsec support in the Linux kernel across three major versions: 2.4, 2.6, and 3.0. Features are represented by horizontal bars, with their start and end points indicating the kernel versions in which they were introduced and supported.

- ip nat enable:** Introduced in 2.4, supported through 2.6, and then again in 3.0.
- SNAT:** Introduced in 2.4, supported through 2.6, and then again in 3.0.
- DNAT:** Introduced in 2.4, supported through 2.6, and then again in 3.0.
- NAT:** Introduced in 2.4, supported through 2.6, and then again in 3.0.
- NVIO:** Introduced in 2.4, supported through 2.6, and then again in 3.0.
- Domainless:** Introduced in 2.4, supported through 2.6, and then again in 3.0.
- ACL:** Introduced in 2.4, supported through 2.6, and then again in 3.0.
- VPN:** Introduced in 2.4, supported through 2.6, and then again in 3.0.
- policy routing:** Introduced in 2.4, supported through 2.6, and then again in 3.0.
- NAT (repeated):** Introduced in 2.4, supported through 2.6, and then again in 3.0.



#####

R3 80#####

R2#####

R3

#####

```
ip nat inside source static tcp 10.1.12.2 80 61.128.1.1 8000
```

```
ip nat inside source static tcp 10.1.12.2 80 61.128.1.3 80
```

```
ip nat inside source list NAT interface e0/0 overload
```

```
interface e0/0
```

```
ip nat outside
```

```
interface e0/1
```

```
ip nat inside
```

```
##### NVI NAT
```

```
ip nat source static tcp 10.1.12.2 80 61.128.1.1 8000
```

```
ip nat source static tcp 10.1.12.2 80 61.128.1.3 80
```

```
ip nat source list NAT interface e0/0 overload
```

```
interface e0/0
```

```
ip nat enable
```

```
interface e0/1
```

```
ip nat enable
```

```
##### NVI NAT
```

```
#####
```

```
interface e0/0
```

```
no ip redirects
```

```
interface e0/1
```

```
no ip redirects
```

```
#####
```

show ip nat nvi translations

```
sh ip nat nvi translations
```

```
Pro Source global Source local Destin local Destin global
```

```
tcp 61.128.1.1:28909 10.1.11.2:28909 61.128.1.3:80 10.1.12.2:80
```

```
tcp 61.128.1.1:8000 10.1.12.2:80 --- ---
```

OK
nat

R2

R3

nat

?????cisco3945 flash
???????????

```
archive tar /create flash:all_files_backup.tar flash:
```

```
copy flash:all_files_backup.tar tftp:
```

[illegible]

```
tar /create usbflash0:allfile.tar flash:
```