

Cisco N5548 NX-OS



XXXX

NX-OS 5.2(1)N1(9b)XX

XXXXXXXXXXXX

XXXXXX

MAC/ARP

FEX

XXXXXX

XXXXXXXXXX

STP

XX

VLAN/



```
# XXXXXXXXXXXXXXXX
show environment all
show module
show power
show fan
show hardware internal status

# XX/XXXXXXXXXX
show environment temperature
show hardware internal error
show sprom all

# XXCPU/XXXXXXXXXXXXXX
show system resources
show processes cpu sort
show processes memory sort
```

XXXX

Power/Fan

XX

ok

XXXX

fault

XXXX

critical

XX

CPU

XXXX

70%

XX



/



80%



CRC

配置命令

show interface brief

show interface status

查看CRC错误和Pause帧

show interface Ethernet 1/1

show interface Ethernet 1/1 counters detailed

show interface Ethernet 1/1 errors

查看SFP信息

show interface transceiver brief

show interface transceiver Ethernet 1/1 details

查看内部缓冲区统计

show hardware internal buffer stats interface Ethernet 1/1

show interface queueing Ethernet 1/1

查看flapping和日志

show logging interface Ethernet 1/1

show port-flap history



1. CRC Align-Err Runt Giants → / /
2. Input-Drops/Output-Drops →
3. Rx Power →
4. up/down →



& STP



ping



N5548 STP CPU

```
# STP discarding/flap
show spanning-tree summary
show spanning-tree brief

# VLAN STP 
show spanning-tree vlan 10

# STP TC=/ 
show spanning-tree topology change
show spanning-tree interface Ethernet 1/1 status

# 
show mac-address-table count
show interface counters broadcast
```

Topology change count =



MAC

ARP



```
# MAC 
show mac-address-table
show mac-address-table count
show mac-address-table notification
```

```
# 查看MAC地址漂移
show mac-address-table drift log

# 查看ARP表
show ip arp
show ip arp summary
```

查看 MAC 地址漂移 ARP 表

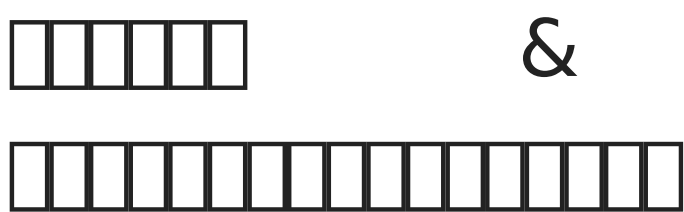
配置 VLAN 和 Trunk

```
# 配置 VLAN
show vlan brief
show vlan id 10

# 配置 Trunk
show interface trunk
show interface Ethernet 1/1 trunk

# 查看配置
show mac-address-table hardware
```

配置 Trunk 和 Native VLAN



```
# 查看日志
show logging log
show logging last 500

# 查看日志中的错误和严重消息
show logging | grep -i error
show logging | grep -i critical
```

```
show logging | grep -i flapping
show logging | grep -i crc
show logging | grep -i stp
```

```
# 
show system event log
show logging onboard
```

|||||

flap|CRC|error|temperature|power|TC|discard|

|||||

QoS



```
# 
show hardware internal buffer info

# QoS
show queuing interface Ethernet 1/1
show policy-map interface Ethernet 1/1

# 
show interface Ethernet 1/1 stats rate
```

Output-Drops |||||

buffer|||||

||

FEX



FEX



|||||

N2K FEX|||||

```
show fex
show fex 100 detail
show interface fex-fabric 100/1/1
show fex error
```

FEX fabric

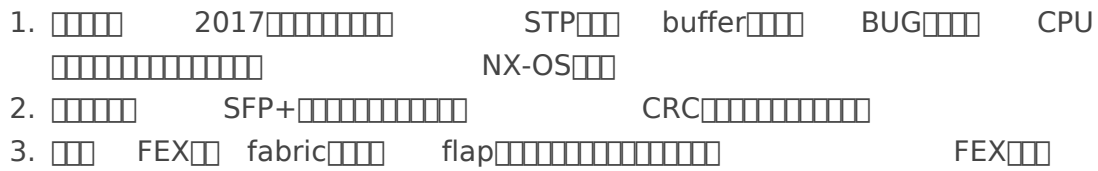
```
# ping -c 1 192.168.1.100
ping 192.168.1.100 repeat 10000 interval 0.1

# ping -s 1500 192.168.1.100
ping 192.168.1.100 packet-size 1500 df-bit

# traceroute -m 100 192.168.2.50
traceroute 192.168.2.50
```

[illegible]

1. show logging last 1000 []
2. show environment all / show module []
3. show interface brief | include -err|drop|down []
4. [] show interface X/X counters detailed [] / []
5. show spanning-tree summary [] TC []
6. show system resources [] CPU []
7. MAC [] /ARP []
8. [] ping [] Trunk []



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