

Cisco Interfaces In Use

Jan 2024

Introduction

A really useful task to perform when looking at remote systems is to see what interfaces on a Cisco Switch are in use (as in connected).

Interface Status

Lets look at how to see what interfaces we are using: `sh interfaces status` This has to be performed from the top level, same part of the Cisco menu you would do `sh vlan br` for instance.

```
sh interfaces status
```

Port	Name	Status	Vlan	Duplex	Speed	Type
Gi0/1		connected	2	a-full	a-1000	10/100/1000BaseTX
Gi0/2		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/3		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/4		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/5		connected	2	a-full	a-1000	10/100/1000BaseTX
Gi0/6		connected	2	a-full	a-1000	10/100/1000BaseTX
Gi0/7		connected	2	a-full	a-1000	10/100/1000BaseTX
Gi0/8		connected	2	a-full	a-1000	10/100/1000BaseTX
Gi0/9		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/10		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/11		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/12		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/13		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/14		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/15		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/16		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/17		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/18		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/19		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/20		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/21		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/22		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/23		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/24		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/25		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/26		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/27		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/28		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/29		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/30		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/31		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/32		notconnect	2	auto	auto	10/100/1000BaseTX
Gi0/33		connected	3	a-full	a-1000	10/100/1000BaseTX
Gi0/34		connected	3	a-full	a-1000	10/100/1000BaseTX
Gi0/35		notconnect	3	auto	auto	10/100/1000BaseTX
Gi0/36		notconnect	3	auto	auto	10/100/1000BaseTX
Gi0/37		notconnect	3	auto	auto	10/100/1000BaseTX
Gi0/38		notconnect	3	auto	auto	10/100/1000BaseTX
Gi0/39		notconnect	3	auto	auto	10/100/1000BaseTX
Gi0/40		notconnect	3	auto	auto	10/100/1000BaseTX
Gi0/41		notconnect	3	auto	auto	10/100/1000BaseTX
Gi0/42		notconnect	3	auto	auto	10/100/1000BaseTX
Gi0/43		notconnect	3	auto	auto	10/100/1000BaseTX
Gi0/44		notconnect	3	auto	auto	10/100/1000BaseTX
Gi0/45		connected	1	a-full	a-1000	10/100/1000BaseTX
Gi0/46		connected	1	a-full	a-1000	10/100/1000BaseTX
Gi0/47		notconnect	1	auto	auto	Not Present

Gi0/48	notconnect	1	auto	auto	Not Present
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In the above example above we can see that there are 9 interfaces in use, and we can see the following information for each interface:

Port	Name	Status	Vlan	Duplex	Speed	Type
Gi0/1		connected	2	a-full	a-1000	10/100/1000BaseTX

The following is what each field means:

Port - This is the interface number on the switch

Name - This only shows if any names have been assigned, generally they are not.

Status - Connected.

VLAN - What VLAN the interfaces is currently in.

DUPLEX - a-full (automatic-full)

SPEED - a-1000 (auto 1000)

TYPE - 10/100/1000BaseTX (this interface supports 10Mb/s / 100Mbps and 1GBs)

Show the Mac Address Table

We can use the following to show what MAC Addresses are present on each interface. If you have an interface that is connected to another switch then you will see all MAC addresses from that switch interface.

sh mac address-table

Vlan	Mac Address	Type	Ports
----	-----	-----	----
All	0100.0ccc.cccc	STATIC	CPU
All	0100.0ccc.cccd	STATIC	CPU
All	0180.c200.0000	STATIC	CPU
All	0180.c200.0001	STATIC	CPU
All	0180.c200.0002	STATIC	CPU
All	0180.c200.0003	STATIC	CPU
All	0180.c200.0004	STATIC	CPU
All	0180.c200.0005	STATIC	CPU
All	0180.c200.0006	STATIC	CPU
All	0180.c200.0007	STATIC	CPU
All	0180.c200.0008	STATIC	CPU
All	0180.c200.0009	STATIC	CPU
All	0180.c200.000a	STATIC	CPU
All	0180.c200.000b	STATIC	CPU
All	0180.c200.000c	STATIC	CPU
All	0180.c200.000d	STATIC	CPU
All	0180.c200.000e	STATIC	CPU
All	0180.c200.000f	STATIC	CPU
All	0180.c200.0010	STATIC	CPU
All	ffff.ffff.ffff	STATIC	CPU
2	0025.b4bc.2901	DYNAMIC	Gi0/1
2	74fe.4857.6d4a	DYNAMIC	Gi0/7
2	74fe.4857.72a5	DYNAMIC	Gi0/8
2	a4bf.0169.b7af	DYNAMIC	Gi0/5
2	a4bf.016a.d0eb	DYNAMIC	Gi0/6
3	74fe.4857.6d4c	DYNAMIC	Gi0/33
3	74fe.4857.72a7	DYNAMIC	Gi0/34
1	74fe.4828.799d	DYNAMIC	Gi0/45
1	74fe.4828.c136	DYNAMIC	Gi0/45
1	9418.8266.b82c	DYNAMIC	Gi0/45
1	9418.8266.b82d	DYNAMIC	Gi0/45
1	a4bf.0169.b7ad	DYNAMIC	Gi0/45
1	a4bf.016a.d0e9	DYNAMIC	Gi0/45

I want to look at this specific interface:

Vlan	Mac Address	Type	Ports
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2	a4bf.0169.b7af	DYNAMIC	Gi0/5
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