Shutdown Cisco Interface

Jan 2024

Introduction

While working with certain products, usually remotely, it is quite handy to unplug a Network Cable to test resilience (ensure that a backup route or device is used).

However, when remote this is almost impossible, so to simulate this we can just take down the relevant interface on the Cisco to simulate a cable disconnect.

Shutdown Interface

Before shutting down any interfaces, lets look a the status of the interfaces from the console. We can do this at the top level buy using this command:

```
sh interfaces status
```

You will get an output similar to below:

```
Port      Name               Status       Vlan       Duplex  Speed Type
Gi0/1     MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/2     MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/3     MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/4     MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/5     MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/6     MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/7     MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/8     MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/9     MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/10    MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/11    MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/12    MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/13    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/14    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/15    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/16    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/17    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/18    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/19    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/20    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/21    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/22    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/23    ENCtoMuxPri        connected    100        a-full a-1000 10/100/1000BaseTX
Gi0/24    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
```

Interface 23 is connected, the rest are not.
To shutdown an interface, we first have to select it as we would normally do for any other operation.

```
en (enter password)
conf t
int gigabitEthernet 0/1 (nic 1) - (or you could shutdown a range with int gigabitEthernet 0/1-12 for
example)
sh
end
```

Now if you repeat the following command:

```
sh interfaces status
```

You will see that the first interface is shown as ***disabled***.

```
Port      Name               Status       Vlan       Duplex  Speed Type
Gi0/1     MNGT               disabled     100          auto   auto 10/100/1000BaseTX
Gi0/2     MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/3     MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/4     MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/5     MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/6     MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/7     MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/8     MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/9     MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/10    MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/11    MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/12    MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/13    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/14    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/15    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/16    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/17    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/18    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/19    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/20    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/21    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/22    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/23    ENCtoMuxPri        connected    100        a-full a-1000 10/100/1000BaseTX
Gi0/24    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
```

Bring Up Interface

To bring the interface back up, use the following:

```
en (enter password)
conf t
int gigabitEthernet 0/1 (nic 1) - (or you could bring up a range with int gigabitEthernet 0/1-12 for
example)
no sh
end
```

Bring Up/Down more Interfaces

When we select the interface to Shutdown/Bring up we used in this above example:

```
int gigabitEthernet 0/1
```

This shuts down a single interface (The first interface on the box). We could however shutdown the first 10 interfaces by using:

```
en (enter password)
conf t
int range gigabitEthernet 0/1-10
no sh
end
```

Now we can see the first 10 interfaces are down:

```
Port      Name               Status       Vlan       Duplex  Speed Type
Gi0/1     MNGT               disabled     100          auto   auto 10/100/1000BaseTX
Gi0/2     MNGT               disabled     100          auto   auto 10/100/1000BaseTX
Gi0/3     MNGT               disabled     100          auto   auto 10/100/1000BaseTX
Gi0/4     MNGT               disabled     100          auto   auto 10/100/1000BaseTX
Gi0/5     MNGT               disabled     100          auto   auto 10/100/1000BaseTX
Gi0/6     MNGT               disabled     100          auto   auto 10/100/1000BaseTX
Gi0/7     MNGT               disabled     100          auto   auto 10/100/1000BaseTX
Gi0/8     MNGT               disabled     100          auto   auto 10/100/1000BaseTX
Gi0/9     MNGT               disabled     100          auto   auto 10/100/1000BaseTX
Gi0/10    MNGT               disabled     100          auto   auto 10/100/1000BaseTX
Gi0/11    MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/12    MNGT               notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/13    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/14    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/15    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/16    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/17    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/18    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/19    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/20    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/21    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/22    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
Gi0/23    ENCtoMuxPri        connected    100        a-full a-1000 10/100/1000BaseTX
Gi0/24    ENCtoMuxPri        notconnect   100          auto   auto 10/100/1000BaseTX
```