

VLAN Trunking

Ethernet Switch

ZyNOS 4.0

Support Notes

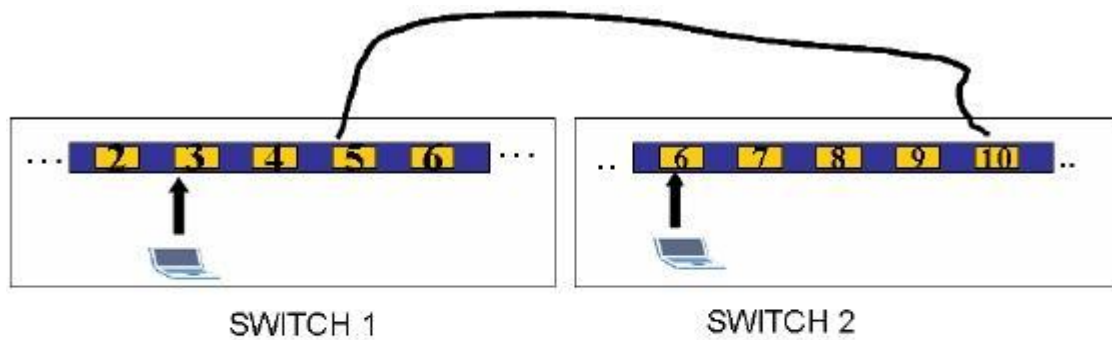
Version 4.00

Nov 2011



Setting up VLAN Trunking

The benefit of deploying VLAN trunking is that we can connect two switches by a port that is configured as VLAN trunking port. Using the VLAN trunking port, PC1 at switch 1 with any VLAN tag frame can communicate with PC2 at switch 2 with another VLAN tag frame. In our example, we set up port 5 in switch 1 and port 10 in switch 2 as the VLAN Trunking port,



In the switch 1, the configuration is:

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● VLAN Port Setting

[Subnet Based Vlan](#)

[Protocol Based Vlan](#)

[VLAN Status](#)

GVRP

Ingress Check

Port	PVID	GVRP	Acceptable Frame Type	VLAN Trunking	Isolation
*		<input type="checkbox"/>	All	<input type="checkbox"/>	<input type="checkbox"/>
1	1	<input type="checkbox"/>	All	<input type="checkbox"/>	<input type="checkbox"/>
2	1	<input type="checkbox"/>	All	<input type="checkbox"/>	<input type="checkbox"/>
3	1	<input type="checkbox"/>	All	<input type="checkbox"/>	<input type="checkbox"/>
4	1	<input type="checkbox"/>	All	<input type="checkbox"/>	<input type="checkbox"/>
5	1	<input type="checkbox"/>	All	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	1	<input type="checkbox"/>	All	<input type="checkbox"/>	<input type="checkbox"/>
7	1	<input type="checkbox"/>	All	<input type="checkbox"/>	<input type="checkbox"/>
8	1	<input type="checkbox"/>	All	<input type="checkbox"/>	<input type="checkbox"/>
9	1	<input type="checkbox"/>	All	<input type="checkbox"/>	<input type="checkbox"/>
10	1	<input type="checkbox"/>	All	<input type="checkbox"/>	<input type="checkbox"/>

Apply

Cancel

In the switch 2, the configuration is

MENU
 Basic Setting
 Advanced Application
 IP Application
 Management

VLAN Port Setting Subnet Based Vlan Protocol Based Vlan VLAN Status

GVRP
 Ingress Check

Port	PVID	GVRP	Acceptable Frame Type	VLAN Trunking	Isolation
*		<input type="checkbox"/>	All	<input type="checkbox"/>	<input type="checkbox"/>
1	1	<input type="checkbox"/>	All	<input type="checkbox"/>	<input type="checkbox"/>
2	1	<input type="checkbox"/>	All	<input type="checkbox"/>	<input type="checkbox"/>
3	1	<input type="checkbox"/>	All	<input type="checkbox"/>	<input type="checkbox"/>
4	1	<input type="checkbox"/>	All	<input type="checkbox"/>	<input type="checkbox"/>
5	1	<input type="checkbox"/>	All	<input type="checkbox"/>	<input type="checkbox"/>
6	1	<input type="checkbox"/>	All	<input type="checkbox"/>	<input type="checkbox"/>
7	1	<input type="checkbox"/>	All	<input type="checkbox"/>	<input type="checkbox"/>
8	1	<input type="checkbox"/>	All	<input type="checkbox"/>	<input type="checkbox"/>
9	1	<input type="checkbox"/>	All	<input type="checkbox"/>	<input type="checkbox"/>
10	1	<input type="checkbox"/>	All	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Apply Cancel

In the switch 1, we set port 3 as VLAN 2 untag

In the switch 2, we set port 6 as VLAN 2 untag.

The IP address of Switch1 port 3:

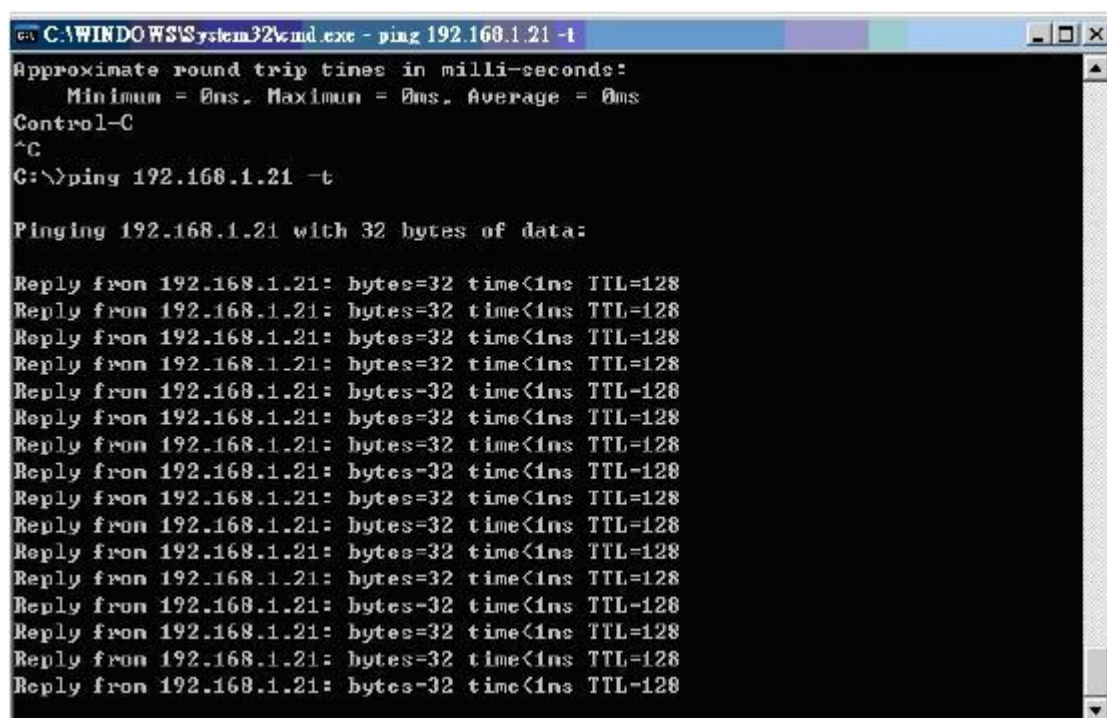
192.168.1.31

The IP address of Switch2 port 6:

192.168.1.21

After the configuration is done, we can see that in the switch 1, the PC₁

running on port 3 can find the PC₂ running on port 6 in the switch 2.



```
C:\WINDOWS\system32\cmd.exe - ping 192.168.1.21 -t
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
Control-C
^C
C:\>ping 192.168.1.21 -t

Pinging 192.168.1.21 with 32 bytes of data:

Reply from 192.168.1.21: bytes=32 time<1ms TTL=128
Reply from 192.168.1.21: bytes=32 time<1ms TTL=128
Reply from 192.168.1.21: bytes=32 time<1ms TTL=128
Reply from 192.168.1.21: bytes=32 time<1ms TTL=128
Reply from 192.168.1.21: bytes=32 time<1ms TTL=128
Reply from 192.168.1.21: bytes=32 time<1ms TTL=128
Reply from 192.168.1.21: bytes=32 time<1ms TTL=128
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Reply from 192.168.1.21: bytes=32 time<1ms TTL=128
Reply from 192.168.1.21: bytes=32 time<1ms TTL=128
```