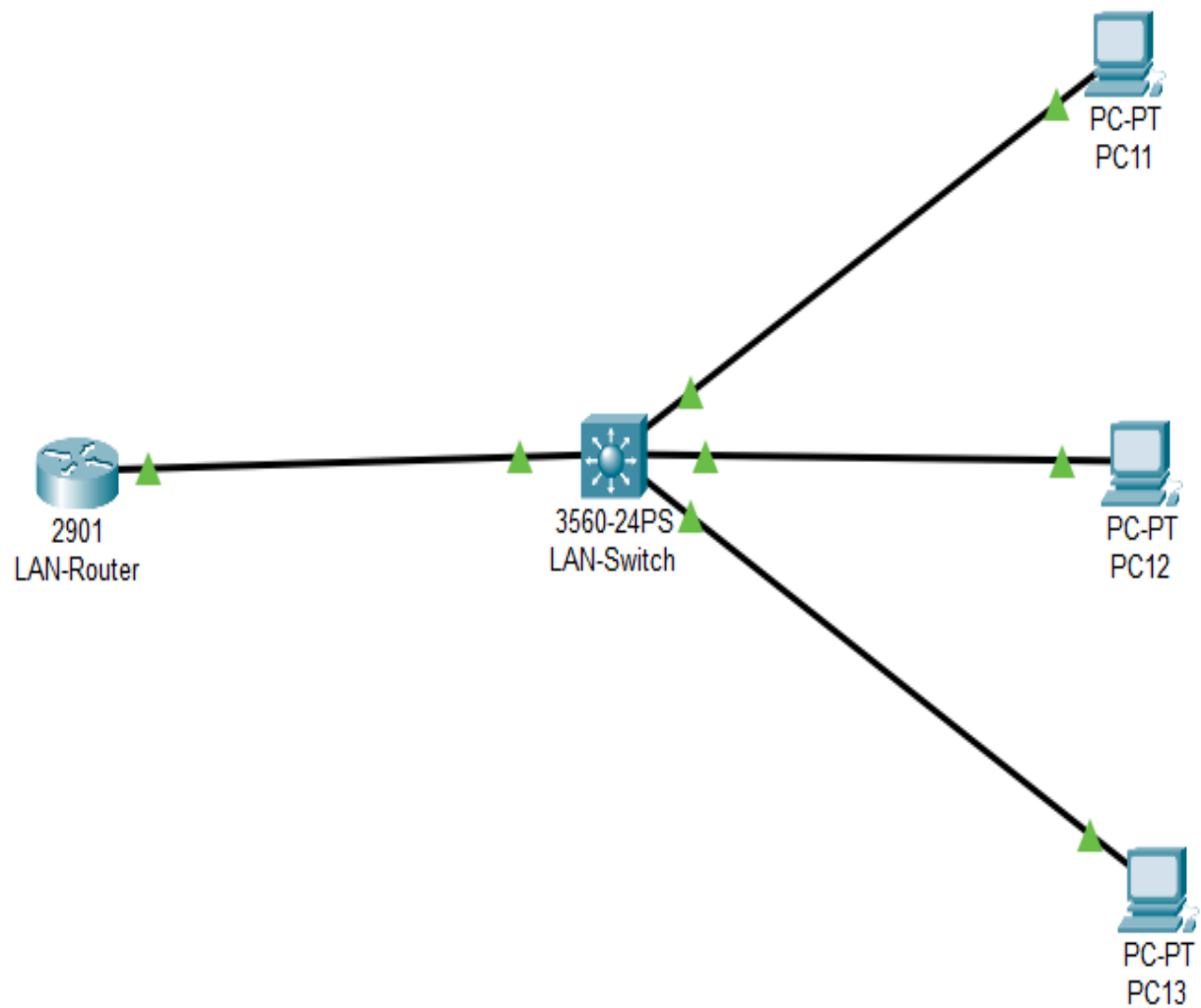


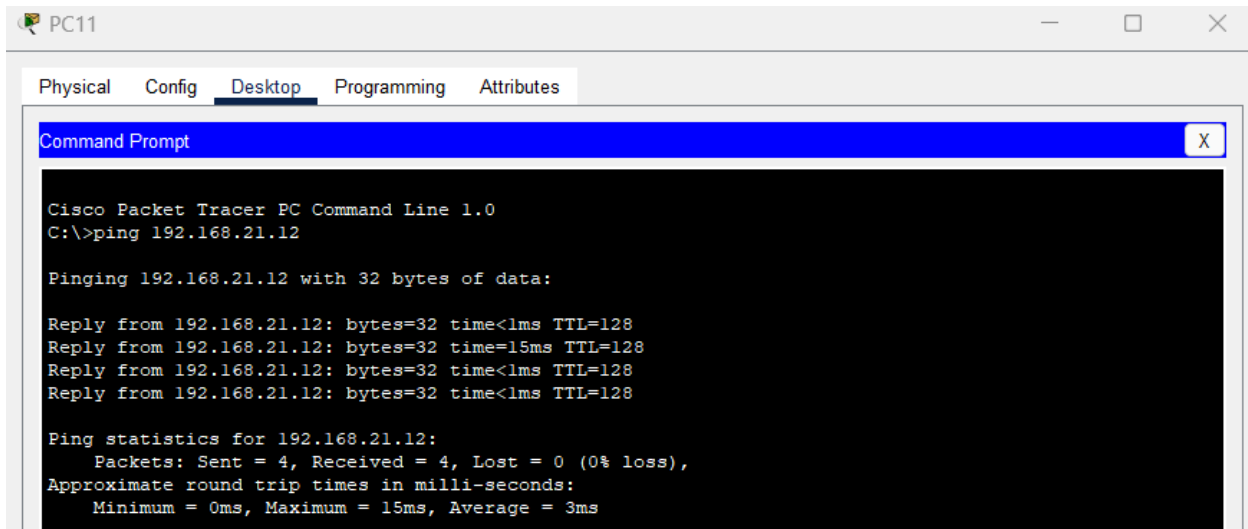
- Network Logical Topology



CISCO – Router / Interface	IPv4 – Address / Subnet
GigabitEthernet0/1	192.168.21.1/24

Equipment	Address	MASK	Access/Switchport	LAN
PC11	192.168.21.11	255.255.255.0	1	Yes
PC12	192.168.21.12	255.255.255.0	2	Yes
PC13	192.168.21.13	255.255.255.0	3	Yes

- Ping from PC 11 (192.168.21.11) to PC 12 (192.168.21.12)



- Ping from LAN-Router (192.168.21.1) to PC 13 (192.168.21.13)

```
LAN-Router#ping 192.168.21.13
```

```
Type escape sequence to abort.
```

```
Sending 5, 100-byte ICMP Echos to 192.168.21.13, timeout is 2 seconds:
```

```
.!!!!
```

```
Success rate is 80 percent (4/5), round-trip min/avg/max = 0/0/0 ms
```

- LAN-Router “show version” command

```
LAN-Router>show version
```

```
Cisco IOS Software, C2900 Software (C2900-UNIVERSALK9-M), Version 15.1(4)M4, RELEASE SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2012 by Cisco Systems, Inc.
Compiled Thurs 5-Jan-12 15:41 by pt_team
```

```
ROM: System Bootstrap, Version 15.1(4)M4, RELEASE SOFTWARE (fc1)
cisco2901 uptime is 50 minutes, 57 seconds
System returned to ROM by power-on
System image file is "flash0:c2900-universalk9-mz.SPA.151-1.M4.bin"
Last reload type: Normal Reload
```

This product contains cryptographic features and is subject to United States and local country laws governing import, export, transfer and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute or use encryption. Importers, exporters, distributors and users are responsible for compliance with U.S. and local country laws. By using this product you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at:
<http://www.cisco.com/ww1/export/crypto/tool/stqrg.html>

If you require further assistance please contact us by sending email to
export@cisco.com.

Cisco CISCO2901/K9 (revision 1.0) with 491520K/32768K bytes of memory.

Processor board ID FTX152400KS

2 Gigabit Ethernet interfaces

DRAM configuration is 64 bits wide with parity disabled.

255K bytes of non-volatile configuration memory.

249856K bytes of ATA System CompactFlash 0 (Read/Write)

License Info:

License UDI:

```
-----  
Device#    PID                      SN  
-----  
*0         CISCO2901/K9              FTX1524DCYK-
```

Technology Package License Information for Module:'c2900'

```
-----  
Technology    Technology-package    Technology-package  
              Current      Type                Next reboot  
-----  
ipbase        ipbasek9              Permanent          ipbasek9  
security      disable              None               None  
uc            disable              None               None  
data          disable              None               None
```

Configuration register is 0x2102

- Router “show run” command

```
LAN-Router#show run
Building configuration...

Current configuration : 626 bytes
!
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname LAN-Router
!
!
!
!
!
!
!
!
ip cef
no ipv6 cef
!
!
!
!
license udi pid CISCO2901/K9 sn FTX1524DCYK-
!
!
!
!
!
!
!
!
!
spanning-tree mode pvst
!
!
!
!
```

```

spanning-tree mode pvst
!
!
!
!
!
interface GigabitEthernet0/0
  no ip address
  duplex auto
  speed auto
  shutdown
!
interface GigabitEthernet0/1
  ip address 192.168.21.1 255.255.255.0
  duplex auto
  speed auto
!
interface Vlan1
  no ip address
  shutdown
!
ip classless
!
ip flow-export version 9
!
!
!
!
!
!
!
!
!
line con 0
!
line aux 0
!
line vty 0 4
  login
!
!
!
end

```

- Router “show ip int brief” command

```

LAN-Router#show ip int brief

```

Interface	IP-Address	OK?	Method	Status	Protocol
GigabitEthernet0/0	unassigned	YES	unset	administratively down	down
GigabitEthernet0/1	192.168.21.1	YES	manual	up	up
Vlan1	unassigned	YES	unset	administratively down	down

- Switch “show version” command

```

LAN-Switch>show version
Cisco IOS Software, C3560 Software (C3560-ADVIPSERVICESK9-M), Version 12.2(37)SE1, RELEASE SOFTWARE
(fcl)
Copyright (c) 1986-2007 by Cisco Systems, Inc.
Compiled Thu 05-Jul-07 22:22 by pt_team
Image text-base: 0x00003000, data-base: 0x01500000

ROM: C3560 Boot Loader (C3560-HBOOT-M) Version 12.2(25r)SEC, RELEASE SOFTWARE (fc4)

System returned to ROM by power-on

This product contains cryptographic features and is subject to United
States and local country laws governing import, export, transfer and
use. Delivery of Cisco cryptographic products does not imply
third-party authority to import, export, distribute or use encryption.
Importers, exporters, distributors and users are responsible for
compliance with U.S. and local country laws. By using this product you
agree to comply with applicable laws and regulations. If you are unable
to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at:
http://www.cisco.com/wwl/export/crypto/tool/stqrg.html

If you require further assistance please contact us by sending email to
export@cisco.com.
cisco WS-C3560-24PS (PowerPC405) processor (revision P0) with 122880K/8184K bytes of memory.
Processor board ID CAT1037RJF7
24 FastEthernet/IEEE 802.3 interface(s)
2 Gigabit Ethernet/IEEE 802.3 interface(s)

63488K bytes of flash-simulated non-volatile configuration memory.
Base ethernet MAC Address       : 00D0.BA3C.E17B
Motherboard assembly number     : 73-9673-09
Power supply part number       : 341-0029-05
Motherboard serial number      : CAT103758VY
Power supply serial number     : DTH1036C7UB
Model revision number          : P0
Motherboard revision number    : A0
Model number                   : WS-C3560-24PS-E
System serial number           : CAT1037RJF7
Top Assembly Part Number       : 800-26380-04
Top Assembly Revision Number   : B0

Top Assembly Revision Number    : B0
Version ID                     : V06
CLEI Code Number               : COM1100ARC
Hardware Board Revision Number : 0x01


Switch  Ports  Model                SW Version          SW Image
-----  -
*      1    26      WS-C3560-24PS      12.2(37)SE1        C3560-ADVIPSERVICESK

Configuration register is 0xF

```

- [illegible]

```
interface FastEthernet0/2
  switchport mode access
!
interface FastEthernet0/3
  switchport mode access
!
interface FastEthernet0/4
  switchport mode access
!
interface FastEthernet0/5
  switchport mode access
!
interface FastEthernet0/6
  switchport mode access
!
interface FastEthernet0/7
  switchport mode access
!
interface FastEthernet0/8
  switchport mode access
!
interface FastEthernet0/9
  switchport mode access
!
interface FastEthernet0/10
  switchport mode access
!
interface FastEthernet0/11
  switchport mode access
!
interface FastEthernet0/12
  switchport mode access
!
interface FastEthernet0/13
  switchport mode access
!
interface FastEthernet0/14
  switchport mode access
!
interface FastEthernet0/15
  switchport mode access
!
```



```
interface FastEthernet0/16
  switchport mode access
!
interface FastEthernet0/17
  switchport mode access
!
interface FastEthernet0/18
  switchport mode access
!
interface FastEthernet0/19
  switchport mode access
!
interface FastEthernet0/20
  switchport mode access
!
interface FastEthernet0/21
  switchport mode access
!
interface FastEthernet0/22
  switchport mode access
!
interface FastEthernet0/23
  switchport mode access
!
interface FastEthernet0/24
  switchport mode access
!
interface GigabitEthernet0/1
!
interface GigabitEthernet0/2
!
interface Vlan1
  no ip address
  shutdown
!
ip classless
!
ip flow-export version 9
!
!
!
```

```

!
!
!
!
line con 0
!
line aux 0
!
line vty 0 4
  login
!
!
!
!
end

```

- Switch “show ip int brief” command

```

LAN-Switch#show ip int brief

```

Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/1	unassigned	YES	unset	up	up
FastEthernet0/2	unassigned	YES	unset	up	up
FastEthernet0/3	unassigned	YES	unset	up	up
FastEthernet0/4	unassigned	YES	unset	down	down
FastEthernet0/5	unassigned	YES	unset	down	down
FastEthernet0/6	unassigned	YES	unset	down	down
FastEthernet0/7	unassigned	YES	unset	down	down
FastEthernet0/8	unassigned	YES	unset	down	down
FastEthernet0/9	unassigned	YES	unset	down	down
FastEthernet0/10	unassigned	YES	unset	down	down
FastEthernet0/11	unassigned	YES	unset	down	down
FastEthernet0/12	unassigned	YES	unset	down	down
FastEthernet0/13	unassigned	YES	unset	down	down
FastEthernet0/14	unassigned	YES	unset	down	down
FastEthernet0/15	unassigned	YES	unset	down	down
FastEthernet0/16	unassigned	YES	unset	down	down
FastEthernet0/17	unassigned	YES	unset	down	down
FastEthernet0/18	unassigned	YES	unset	down	down
FastEthernet0/19	unassigned	YES	unset	down	down
FastEthernet0/20	unassigned	YES	unset	down	down
FastEthernet0/21	unassigned	YES	unset	down	down
FastEthernet0/22	unassigned	YES	unset	down	down
FastEthernet0/23	unassigned	YES	unset	down	down
FastEthernet0/24	unassigned	YES	unset	down	down
GigabitEthernet0/1	unassigned	YES	unset	up	up
GigabitEthernet0/2	unassigned	YES	unset	down	down
Vlan1	unassigned	YES	unset	administratively down	down