

TEST PROJECT IT NETWORK SYSTEMS ADMINISTRATION

WSC2015_TP39_D_TS_EN

Submitted by: Cisco Systems





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MODULE D - TROUBLESHOOTING

CONTENTS

This Test Project proposal consists of the following document/file:

WSC2015_TP39_D_TS_EN.docx

WSC2015_TP39_D_TS_XX.pkz

INTRODUCTION

The competition has a fixed start and finish time. You must decide how to best divide your time.

Please **carefully** read the following instructions!

When the competition time ends, please save your file and add your Country-code in the end of the filename (change the XX), leave the Cisco Packet Tracer program and your workstation in a running state.

DO NOT FORGET TO SAVE YOUR PACKET TRACER FILE REGULARLY!

(The Cisco Packet Tracer program may crash and you could loose marks!)

DESCRIPTION OF PROJECT AND TASKS

Ciscwell Glazing Company makes ceramic coatings for space capsules and ships. The processes in the factory are monitored via cameras, sensors, and people on the assembly lines. The Factory also has a store for the public to observe the process and buy samples of ceramics that have been in outer space.

Some aerospace customers will deliver their plans to the office where bids and processes are discussed. The webserver is also the email server (www.ciscwell.com).

After recent network upgrades there was a major power outage in the area so there are many devices that no longer work on the network. The IT-team did not have time to test the upgrades before the power outage. The IT manager is sick at home and you have been handed minor documentation of the network. Please look at the **Engineers notes**.

All PC must be able to reach all servers via ping or via the DNS entry. All email clients shown on the Engineers Notes must be configured and work. You have two hours to fix as many of the network errors that you can.

Good Luck,

The Packet Tracer Team

Engineer notes

All routers using EIGRP 1

All PCs set to DHCP

All DHCP pools are on factory-RT

Servers all have static IPs

Video Server 172.16.10.5/24

Sales Server 172.16.30.5/24

Assembly Data 172.16.40.5/24

DNS server 199.0.0.42/29

www.ciscwell.com 199.0.0.52/29

email accounts for www.ciscwell.com

```
owner
assembly
store
lab
glazing
packing
IT
```

all passwords cisco

Port	Link	VLAN	IP Address	IPv6 Address	MAC Address
FastEthernet0/1	Up	10	<not set>	<not set>	00D0.5842.C001
FastEthernet0/2	Up	1	<not set>	<not set>	00D0.5842.C002
FastEthernet0/3	Up	30	<not set>	<not set>	00D0.5842.C003
FastEthernet0/4	Down	1	<not set>	<not set>	00D0.5842.C004
FastEthernet0/5	Down	1	<not set>	<not set>	00D0.5842.C005
FastEthernet0/6	Down	1	<not set>	<not set>	00D0.5842.C006
FastEthernet0/7	Down	1	<not set>	<not set>	00D0.5842.C007
FastEthernet0/8	Down	1	<not set>	<not set>	00D0.5842.C008
FastEthernet0/9	Down	1	<not set>	<not set>	00D0.5842.C009
FastEthernet0/10	Down	1	<not set>	<not set>	00D0.5842.C00A
FastEthernet0/11	Down	1	<not set>	<not set>	00D0.5842.C00B
FastEthernet0/12	Down	1	<not set>	<not set>	00D0.5842.C00C
FastEthernet0/13	Down	1	<not set>	<not set>	00D0.5842.C00D
FastEthernet0/14	Down	1	<not set>	<not set>	00D0.5842.C00E
FastEthernet0/15	Down	1	<not set>	<not set>	00D0.5842.C00F
FastEthernet0/16	Down	1	<not set>	<not set>	00D0.5842.C010
FastEthernet0/17	Down	1	<not set>	<not set>	00D0.5842.C011
FastEthernet0/18	Down	1	<not set>	<not set>	00D0.5842.C012
FastEthernet0/19	Down	1	<not set>	<not set>	00D0.5842.C013
FastEthernet0/20	Down	1	<not set>	<not set>	00D0.5842.C014
FastEthernet0/21	Down	1	<not set>	<not set>	00D0.5842.C015
FastEthernet0/22	Down	1	<not set>	<not set>	00D0.5842.C016
FastEthernet0/23	Down	1	<not set>	<not set>	00D0.5842.C017
FastEthernet0/24	Up	40	<not set>	<not set>	00D0.5842.C018
GigabitEthernet0/1	Up	--	<not set>	<not set>	00D0.5842.C019
GigabitEthernet0/2	Up	--	<not set>	<not set>	00D0.5842.C01A
Vlan1	Up	1	172.16.1.1/24	<not set>	00E0.A34B.546B
Vlan10	Up	10	172.16.10.1/24	<not set>	00E0.A34B.546B
Vlan20	Up	20	172.16.20.1/24	<not set>	00E0.A34B.546B
Vlan30	Up	30	172.16.30.1/24	<not set>	00E0.A34B.546B
Vlan40	Up	40	172.16.40.1/24	<not set>	00E0.A34B.546B

Hostname: Factory-SW1

Codes: L - local, C - connected, S - static, R - RIP, M - mobile, E - EGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route

Gateway of last resort is not set

```

172.16.0.0/16 is variably subnetted, 6 subnets, 2 masks
C    172.16.1.0/24 is directly connected, GigabitEthernet0/0
L    172.16.1.2/32 is directly connected, GigabitEthernet0/0
D    172.16.10.0/24 [90/25625856] via 172.16.1.1, 03:01:49, GigabitEthernet0/0
D    172.16.20.0/24 [90/25625856] via 172.16.1.1, 03:01:49, GigabitEthernet0/0
D    172.16.30.0/24 [90/25625856] via 172.16.1.1, 03:01:49, GigabitEthernet0/0
D    172.16.40.0/24 [90/25625856] via 172.16.1.1, 03:01:49, GigabitEthernet0/0
199.0.0.0/24 is variably subnetted, 8 subnets, 2 masks
C    199.0.0.0/29 is directly connected, Serial0/0/0
L    199.0.0.2/32 is directly connected, Serial0/0/0
D    199.0.0.8/29 [90/2170368] via 200.200.200.1, 02:40:19, GigabitEthernet0/2
D    199.0.0.16/29 [90/5632] via 200.200.200.1, 02:40:19, GigabitEthernet0/2
D    199.0.0.24/29 [90/3072] via 200.200.200.1, 02:40:19, GigabitEthernet0/2
D    199.0.0.32/29 [90/3072] via 200.200.200.1, 02:40:19, GigabitEthernet0/2
D    199.0.0.40/29 [90/5632] via 200.200.200.1, 02:40:19, GigabitEthernet0/2
D    199.0.0.48/29 [90/5632] via 200.200.200.1, 02:24:49, GigabitEthernet0/2
200.200.200.0/24 is variably subnetted, 2 subnets, 2 masks
C    200.200.200.0/30 is directly connected, GigabitEthernet0/2
L    200.200.200.2/32 is directly connected, GigabitEthernet0/2
Factory-RT#

```

VLAN Name	Status	Ports
1 default	active	
10 Camera	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4 Fa0/5, Fa0/6, Fa0/7, Fa0/8
20 WiFi	active	Fa0/9, Fa0/10, Fa0/11, Fa0/12 Fa0/13, Fa0/14, Fa0/15, Fa0/16
30 PCs	active	Fa0/17, Fa0/18, Fa0/19, Fa0/20 Fa0/21, Fa0/22, Fa0/23, Fa0/24
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

Sw-west#

Wireless Settings

SSID

Channel

Authentication

Disabled
 WEP WEP Key

WPA-PSK
 WPA2-PSK PSK Pass Phrase

WPA
 WPA2

RADIUS Server Settings

IP Address

Shared Secret

Encryption Type

```
!  
hostname SW-East  
!  
spanning-tree mode pvst  
!  
interface FastEthernet0/1  
switchport access vlan 20  
!  
interface FastEthernet0/2  
switchport access vlan 20  
!  
interface FastEthernet0/3  
switchport access vlan 20  
!  
interface FastEthernet0/4  
switchport access vlan 20  
!  
interface FastEthernet0/5  
switchport access vlan 20  
!  
interface FastEthernet0/6  
switchport access vlan 20  
!  
interface FastEthernet0/7  
switchport access vlan 20  
!  
interface FastEthernet0/8  
switchport access vlan 20  
!  
interface FastEthernet0/9  
switchport access vlan 30  
!  
interface FastEthernet0/10  
switchport access vlan 30
```

```
!  
interface FastEthernet0/11  
switchport access vlan 30  
!  
interface FastEthernet0/12  
switchport access vlan 30  
!  
interface FastEthernet0/13  
switchport access vlan 30  
!  
interface FastEthernet0/14  
switchport access vlan 30  
!  
interface FastEthernet0/15  
switchport access vlan 30  
!  
interface FastEthernet0/16  
switchport access vlan 30  
!  
interface FastEthernet0/17  
switchport access vlan 40  
!  
interface FastEthernet0/18  
switchport access vlan 40  
!  
interface FastEthernet0/19  
switchport access vlan 40  
!  
interface FastEthernet0/20  
switchport access vlan 40  
!  
interface FastEthernet0/21  
switchport access vlan 40  
!
```



```
interface FastEthernet0/22
switchport access vlan 40
!
interface FastEthernet0/23
switchport access vlan 40
!
interface FastEthernet0/24
switchport access vlan 10
switchport mode access
!
interface GigabitEthernet0/1
switchport mode trunk
!
interface GigabitEthernet0/2
!
interface Vlan1
ip address 172.16.1.20 255.255.255.0
!
line con 0
!
line vty 0 4
login
line vty 5 15
login
!
```

LOGICAL TOPOLOGY DIAGRAM

