Directions and Engineer notes for NetRiders CCNA 2016 Round 3 Troubleshooting

This troubleshooting activity has 31 errors that must be discovered and changed by you, the competitor. Download the PT file to the desktop of your PC. Prepare an 8 minute presentation and your presentation should include:

- How you went about finding the errors (Troubleshooting Process) - approximately 5 minutes
- One or a group of errors that you show and demonstrate how to fix the problem (you must prove that all devices connect properly) – approximately 3 minutes

You will present via Cisco WebEx to a panel of judges. If a judge asks you to ping a device, it should show a connection. The judges will have 3-5 minutes for questions after your 8 minute presentation. We recommend that you practice your presentation out loud and time yourself because you will only have 8 minutes to present. After the technical questions, you will also be asked a few career interview questions.

To make configurations easier for you, no passwords are being used on the routers and switches. Below are the Instructions page which will be in English on the PT File, and the engineer notes that the competitor can use to analyze what has to be done. Items on the Engineer's notes should not need translation but please look these over to be sure.

Note: You will not be able to save your work on the Packet Tracer file. This is intentional. The Packet Tracer file is not returned to the judges. It is to be used for preparing your presentation and can be used as a part of your presentation or in demonstrating to the judges.

The Packet Tracer file for Round 3 was created using Packet Tracer 6.2 and will only work properly in PT 6.2 or PT 6.3. Please do not open it with Packet Tracer 7.0 as not everything will work properly and that may cause you to waste time. Packet Tracer 6.3 is still available for download on the NetAcad.com website.

Chart to record errors. Please email your completed chart and presentation file at least 30 minutes before your scheduled presentation time on Thursday, 20 October 2016.

Send your files to NetRiders_APAC@external.cisco.com.

Error Description	Device	OSI Layer 1-7	Comments

Directions on PT file (in English on actual file)

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).

There has been a major power outage in the area so there are many devices that no longer work on the network. The IT manager is sick at home and you have been handed minor documentation of the network. Please look at the Engineers notes.

All PCs 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.

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

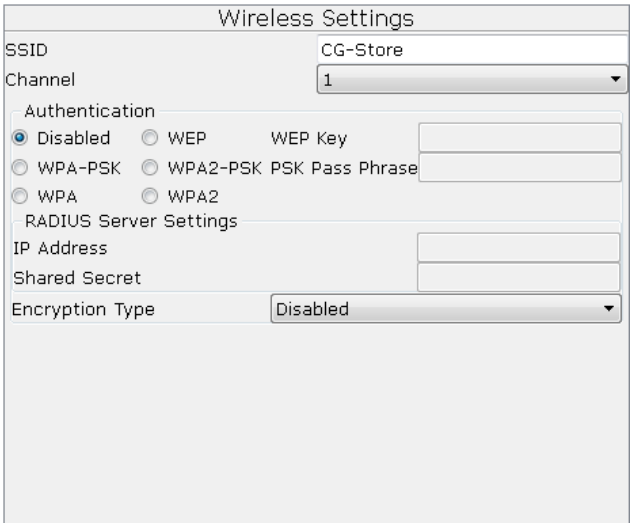
Hostname: Factory-SW1

```
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       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#
```



```
!
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
!
```

How Scoring Works in Round 3 Packet Tracer Activity Exam.

There will be one head judge and a minimum of 2 other judges. Each judge will score independently during the presentation and questions. The Round 3 WebEx presentation and questions will be 40% of your overall score. 60% of your overall score will come from the 60 minute, 100 question exam on the NetRiders website.

Please review the two judging sheets below so you are aware of what types of things the judges will be scoring you on.

Career Presentation Skills Rating Sheet (worth 50 points)

Presentation Skills				
	Excellent (9-10 points)	Good (7-8 points)	Competent (4-6 points)	Not Yet Competent (1-3)
Presentation Clarity • explains ideas well • integrates with slides • clear introduction and conclusion • obvious transitions • demonstrates knowledge of key points • responds well to questions				
Speaking Style • clear enunciation • fluent delivery • good volume • well-paced • maintains eye contact • fits time requirement • enthusiastic about topic • clearly practiced				
Organization and Graphics • presented in logical, interesting sequence • effective slides • use of graphics • graphics are attractive and support the presentation • font formats used to enhance readability and content				
Subject Knowledge (overall but especially when answering questions) • demonstrates confidence in subject matter • answers with honesty if they do not know the answer • asks for clarification if needed when judge asks a question • clearly articulates a position • provides evidence that is relevant and accurate				
			(40 possible) Total Points	
Bonus Points	**Judges will award based on overall presentation skills exhibited**		10 points possible	
			(50 possible) Total Points Career Presentation Skills	

Technical Task Judging Sheet (Worth 50 points)

The judges will observe the problems and score each question according to criteria on the judging sheets. Each judge will be allowed at least 1 question per task. A judge may not need to ask any questions. We are not providing exactly what the judges are looking for but each judge will have a list and award points based on your presentation and the technical questions you answer.

Troubleshooting Process	**Judges will have specific things they are looking for**	**Possible Points**	**Points Earned**
		20	
Demonstrating Error or Group of Errors and How Problem was Fixed	**Judges will have specific things they are looking for**	**Possible Points**	**Points Earned**
		20	
Bonus Points	**Judges will award based on overall technical skill exhibited**	10	
	Total Possible Points	=50	