

Packet Tracer - Troubleshoot WLAN Issues

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Date: April 29, 2023

Addressing Table

Device	Interface	IP Address
Home Wireless Router	Internet	DHCP
	LAN	192.168.0.1
R1	G0/0/0.10	192.168.10.1/24
	G0/0/0.20	192.168.20.1/24
	G0/0/0.200	192.168.200.1/24
	G0/0/1	172.31.1.1/24
SW1	VLAN 200	192.168.200.100/24
LAP-1	G0	DHCP
WLC-1	Management	192.168.200.254/24
RADIUS Server	NIC	172.31.1.254/24
Admin PC	NIC	192.168.200.200/24
Web Server	NIC	203.0.113.78/24
DNS Server	NIC	10.100.100.254
Home Admin	NIC	DHCP
Laptop	NIC	DHCP
Laptop1	Wireless0	DHCP
Laptop2	Wireless0	DHCP
Tablet PC	Wireless0	DHCP
Smartphone	Wireless0	DHCP

WLAN Information

WLAN	SSID	Authentication	Username	Password
Home Network	HomeSSID	WPA2-Personal	N/A	Cisco123
WLAN VLAN10	SSID-10	WPA-2 PSK/Personal	N/A	Cisco123
WLAN VLAN 20	SSID-20	WPA-2 802.1x/Enterprise	user2	User2Pass

Device	Network Home/Enterprise	Issue	Remedy
<i>Tablet PC, Smartphone, Laptop, Home Admin</i>	<i>Home</i>	<i>Cannot access URL of server</i>	<i>Static DNS 1: 10.100.100.254 Tablet PC: ipconfig /renew Smartphone: ipconfig /renew Laptop: ipconfig /renew Home Admin: ipconfig /renew</i>
<i>WLC</i>	<i>Enterprise</i>	<i>Wireless VLAN 20 is not enabled.</i>	<i>Wireless VLAN 20: Enable</i>
<i>WLC</i>	<i>Enterprise</i>	<i>Wireless VLAN 10 Authentication Key Management: 802.1x</i>	<i>Wireless VLAN 10 Authentication Key Management: PSK (Cisco123)</i>
<i>Wireless Router</i>	<i>Home</i>	<i>Internet Connection type: Static</i>	<i>Internet Connection type: Automatic Configuration - DHCP</i>
<i>Laptop 2</i>	<i>Enterprise</i>	<i>Cannot connect to VLAN 20</i>	<i>Profile Login Name: user2 Password: Cisco123</i>

Part 2: Fix Issues

Make changes to the device configurations so hosts can achieve connectivity with the network. Test to ensure all hosts can reach the communication goal of connecting to the web server by both IP address and URL.

Part 3: Post your screenshots

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On the PT Activity window, make sure that the completion grade is **100%**. Click on the **Check Results** button and select the **Assessment Items** tab. Take a screen shot of the whole window, showing the table of assessment items, and the score/item count. Own your photo by placing a watermark on your photo with your name and USC ID Number. Paste your screenshot below:

The screenshot shows the Cisco Packet Tracer Activity Results window. The title bar indicates the file path: D:\JinBus\CpE 3212\Submission\13.4.5 Packet Tracer - Troubleshoot WLAN Issues.pka. The menu bar includes File, Edit, Options, View, Tools, Extensions, Window, and Help. The main area displays 'Activity Results' with a 'Time Elapsed: 01:49:13' indicator. A message states 'Congratulations Guest! You completed the activity.' Below this, there are tabs for 'Overall Feedback', 'Assessment Items' (selected), and 'Connectivity Tests'. Under the 'Assessment Items' tab, there are buttons for 'Expand/Collapse All' and 'Show Incorrect Items'. A table lists the assessment items, their status, points, and components. The table is as follows:

Assessment Items	Status	Points	Component(s)
Network			
Home Wireless Router			
DHCP Server		0	Other
Pools		0	Ip
Pool linksysPool		0	Ip
DNS server IP	Correct	1	Ip
Ports		0	Other
Internet		0	Other
DHCP client enable	Correct	1	Ip
Laptop 2		0	Other
Wireless		0	Other
Security Mode		0	Other
User Id	Correct	1	Other
Tablet PC		0	Other
Ports		0	Other
Wireless0		0	Other
DHCP client enable	Correct	1	Ip
WLC-1			
CAPWAP Wireless			
Wireless LANs			
Wireless VLAN 10		0	Other
Security Mode		0	Other
Authen Type	Correct	1	Other
Wireless VLAN 20		0	Other
Enabled	Correct	1	Other

On the right side, there is a summary table:

Component	Items/Total	Score
Ip	3/3	3/3
Other	3/3	3/3

Below the summary table, there is a 'Close' button.