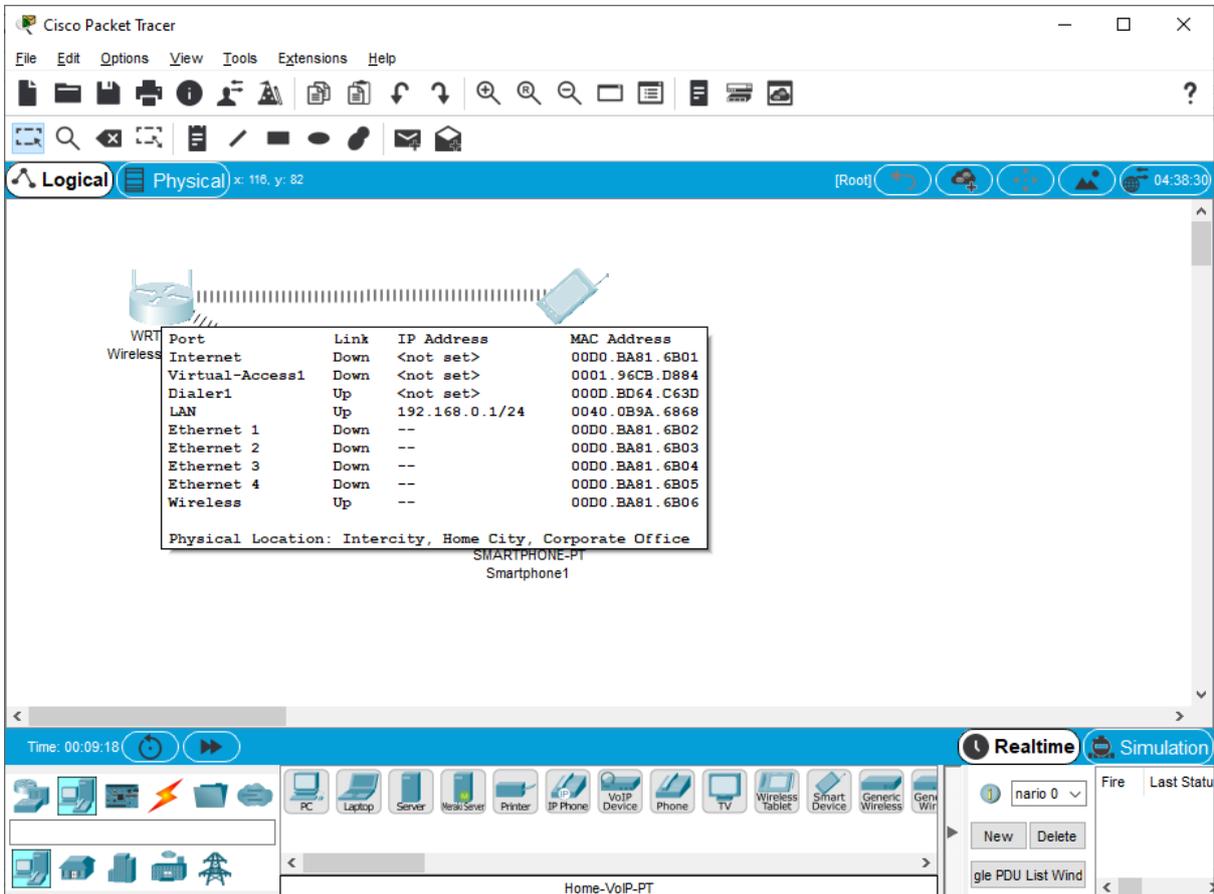
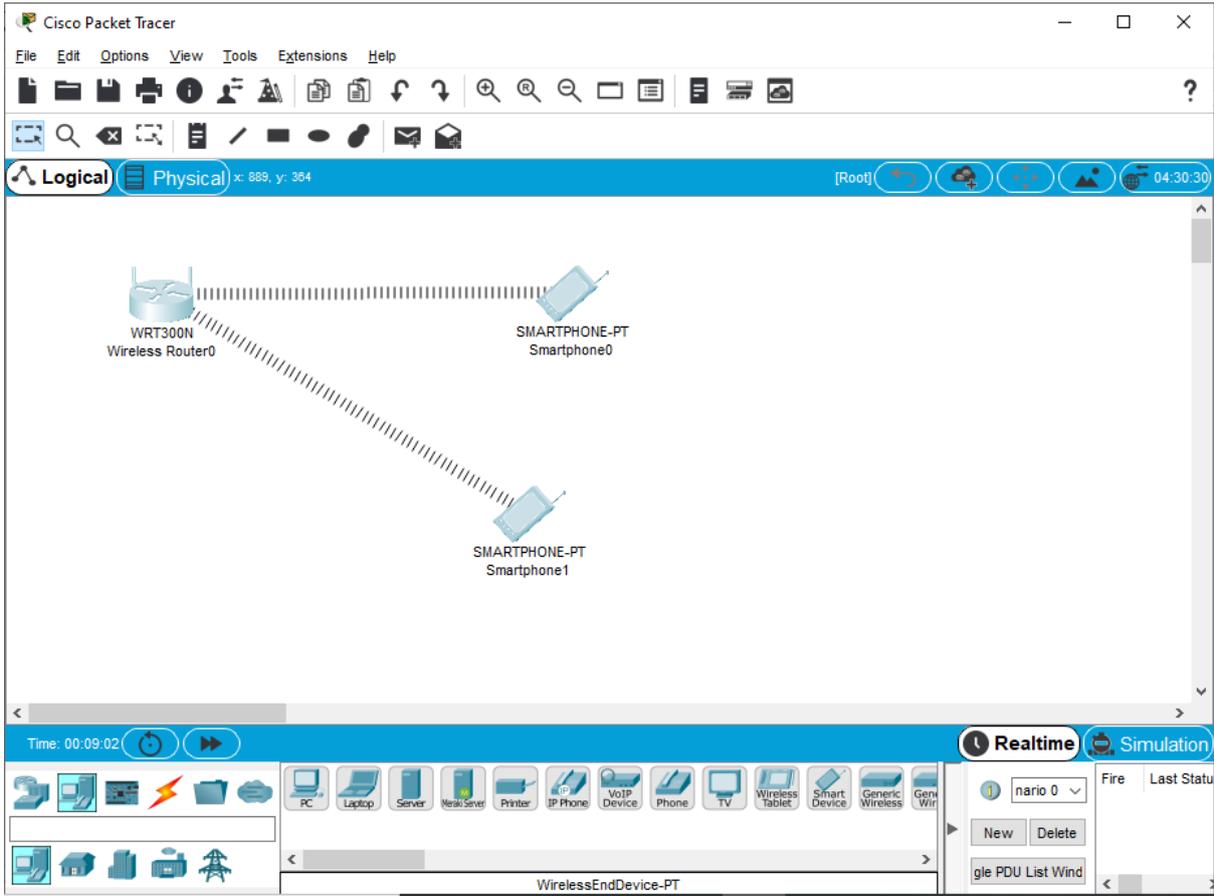


# DHCP Server dynamically assigns an IP address

## WRT300N Wireless Router



Setup		Wireless	Security	Access Restrictions	Applications & Gaming	Administration	Status
		Basic Setup	DDNS		MAC Address Clone		Advanced Routing
<b>Internet Setup</b>							Help...
Internet Connection type	Automatic Configuration - DHCP ▾						
Optional Settings (required by some internet service providers)	Host Name:	<input type="text"/>					
	Domain Name:	<input type="text"/>					
	MTU:	<input type="text"/>	Size:	<input type="text" value="1500"/>			
<b>Network Setup</b>							
Router IP	IP Address:	<input type="text" value="192"/>	<input type="text" value="168"/>	<input type="text" value="0"/>	<input type="text" value="1"/>		
	Subnet Mask:	<input type="text" value="255.255.255.0"/>					
DHCP Server Settings	DHCP Server:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled			<input type="button" value="DHCP Reservation"/>		
	Start IP Address:	192.168.0. <input type="text" value="100"/>					
	Maximum number of Users:	<input type="text" value="50"/>					
	IP Address Range:	192.168.0. 100 - 149					
	Client Lease Time:	<input type="text" value="0"/> minutes (0 means one day)					
	Static DNS 1:	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>		
	Static DNS 2:	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>		

# First Smartphone

Time: 00:09:33

Realtime Simulation

Fire Last Status

New Delete

gle PDU List Wind

Analog-Phone-PT

Port	Link	IP Address	IPv6 Address
Wireless0	Up	192.168.0.100/24	<not set>
3G/4G Cell1	Up	169.254.102.156/16	<not set>
Bluetooth	Down	<not set>	<not set>

Gateway: 192.168.0.1  
 DNS Server: <not set>  
 Line Number: <not set>

Wireless Best Data Rate: 300 Mbps  
 Wireless Signal Strength: 100%

Physical Location: Intercity, Home City, Corporate Office

Smartphone0

Physical Config Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

Wireless0

3G/4G Cell1

Bluetooth

bandwidth: 300 mbps

MAC Address: 00D0.BCE6.B339

SSID: Default

Authentication

Disabled  WEP  WPA-PSK  WPA2-PSK  WPA  WPA2  802.1X

WEP Key:

PSK Pass Phrase:

User ID:

Password:

Method: MD5

User Name:

Password:

Encryption Type: Disabled

IP Configuration

DHCP  Static

IPv4 Address: 192.168.0.100

Subnet Mask: 255.255.255.0

IPv6 Configuration

Automatic  Static

IPv6 Address:

Link Local Address: FE80::2D0:BCFF:FEE6:B339

Top



## Exercise

1. Launch CISCO Packet Tracer
2. Add a WRT300N Wireless router and three smartphones.
3. Configure the DHCP settings so that the Start IP address is 192.168.0.50.
4. Provide a screenshot of each of the 3 smartphones identifying the IP address of each device. Type the IP address of each smartphone under each screenshot.