

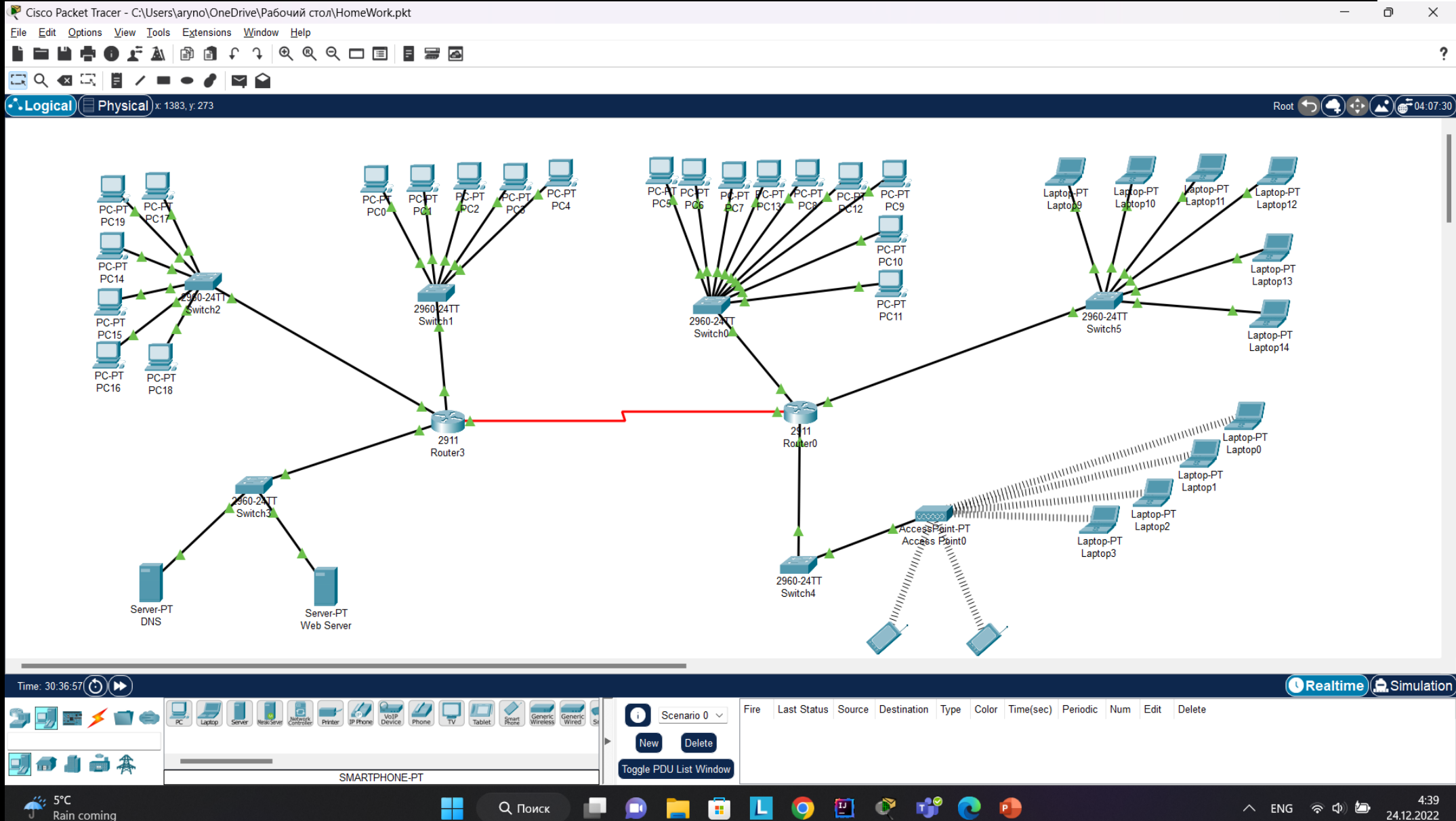
Almaz
Arynov

IT-PLATFORMS FIRST ASSIGNMENT'S REPORT

*Lorem ipsum dolor sit amet,
consectetur adipiscing elit.*

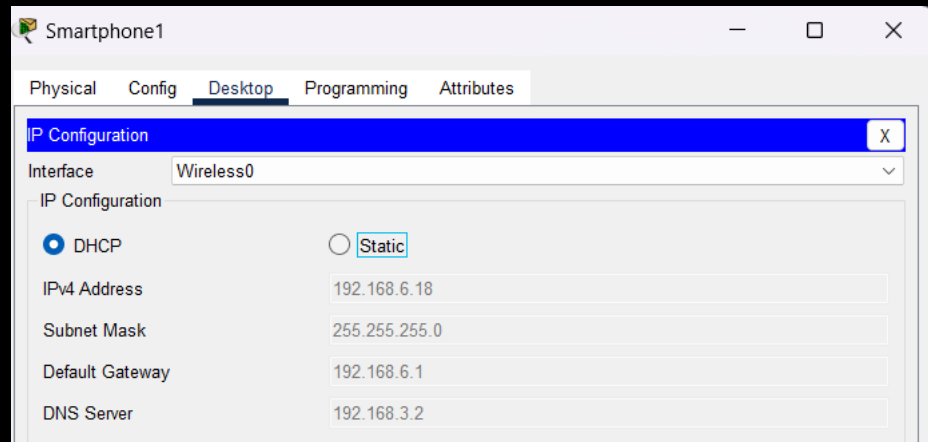
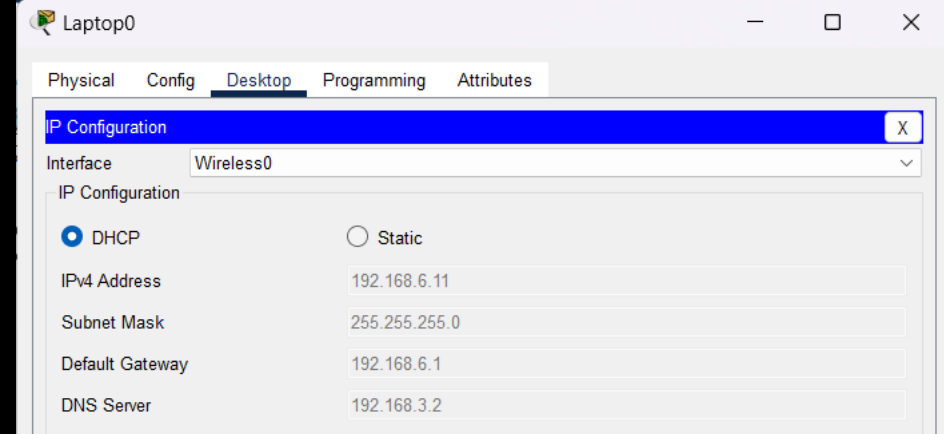
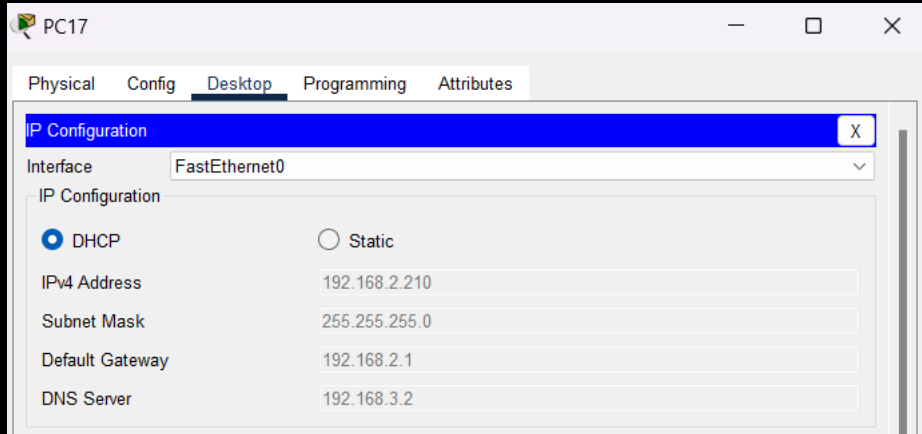


View of Scheme



report

All computers, laptops and wireless devices on DHCP ip configurations



Report

I have 6 stations and 6 switches that are connected to 2 connected routers

I connected all laptops and smartphones to Access Point by WPA2-PSK Authentication and used a simple password.

Access Point0

Physical **Config** Attributes

GLOBAL

Settings

INTERFACE

Port 0

Port 1

Port 1

Port Status ☒ On

SSID Almaz

2.4 GHz Channel 11

Coverage Range (meters) 140,00

Authentication

☐ Disabled ☐ WEP ☒ WPA2-PSK

WEP Key

PSK Pass Phrase 123456789

User ID

Password

Encryption Type AES

Smartphone0

Physical **Config** Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

Wireless0

3G/4G Cell1

Bluetooth

Wireless0

Port Status ☒ On

Bandwidth 54 Mbps

MAC Address 0009.7C5A.3911

SSID Almaz

Authentication

☐ Disabled ☐ WEP ☒ WPA2-PSK

WEP Key

PSK Pass Phrase 123456789

☐ WPA ☐ WPA2

User ID

Password

802.1X Method: MD5

User Name

Password

Encryption Type AES

IP Configuration

☒ DHCP ☐ Static

IPv4 Address 192.168.6.17

Subnet Mask 255.255.255.0

IPv6 Configuration

☐ Automatic

Report

To make DHCP ip configuration on the **left** side I used router
CLI - command line interface

Left Router

```
Router>enable
Router#conf t
Router(config)#ip dhcp excluded-address 192.168.7.0 192.168.1.100
Router(config)#ip dhcp pool First_Network
Router(dhcp-config)#default-router 192.168.7.1
Router(dhcp-config)#dns-server 192.168.3.2
Router(dhcp-config)#network 192.168.7.100 255.255.255.0
Router(dhcp-config)#exit
Router(config)#do wr
```

G0/0

192.168.7.1

G0/1

192.168.2.1

G0/2

192.168.3.1

```
Router>enable
Router#conf t
Router(config)#ip dhcp excluded-address 192.168.2.0 192.168.1.200
Router(config)#ip dhcp pool Second_Network
Router(dhcp-config)#default-router 192.168.2.1
Router(dhcp-config)#dns-server 192.168.3.2
Router(dhcp-config)#network 192.168.2.100 255.255.255.0
Router(dhcp-config)#exit
Router(config)#do wr
```

RIP addresses

10.0.0.0

192.168.2.0

192.168.3.0

192.168.7.0

Report

To make DHCP ip configuration on the **right** side I used
router CLI - command line interface

Right Router

Router>enable	G0/0
Router#conf t	192.168.6.1
Router(config)#ip dhcp excluded-address 192.168.4.0 192.168.4.100	
Router(config)#ip dhcp pool First_Network	G0/1
Router(dhcp-config)#default-router 192.168.4.1	192.168.5.1
Router(dhcp-config)#dns-server 192.168.3.2	
Router(dhcp-config)#network 192.168.4.100 255.255.255.0	G0/2
Router(dhcp-config)#exit	192.168.4.1
Router(config)#do wr	

Router>enable	
Router#conf t	RIP addresses
Router(config)#ip dhcp excluded-address 192.168.5.0 192.168.5.200	10.0.0.0
Router(config)#ip dhcp pool Second_Network	192.168.4.0
Router(dhcp-config)#default-router 192.168.5.1	192.168.5.0
Router(dhcp-config)#dns-server 192.168.3.2	192.168.6.0
Router(dhcp-config)#network 192.168.5.100 255.255.255.0	
Router(dhcp-config)#exit	
Router(config)#do wr	

Report

To make DHCP ip configuration on the right side - Wireless station I used router CLI - command line interface

Right Router

```
Router(config)#int g0/0
Router(config-if)#ip add 192.168.6.1 255.255.255.0
Router(config-if)#no sh
Router(config-if)#exit
Router(config)#ip dhcp pool AA
Router(dhcp-config)#network 192.168.6.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.6.1
Router(dhcp-config)#dns-server 192.168.3.2
Router(dhcp-config)#exit
Router(config)#ip dhcp excluded-address 192.168.6.1 192.168.6.10
Router(config)#exit
Router(config)#do wr
```

Report

The image shows two overlapping windows from the Cisco Packet Tracer application. The top window is titled 'PC18' and the bottom window is titled 'Laptop12'. Both windows have tabs for 'Physical', 'Config', 'Desktop', 'Programming', and 'Attributes', with 'Desktop' selected. Each window contains a 'Command Prompt' window. The PC18 Command Prompt shows the execution of 'ping 192.168.6.12', displaying four successful replies with round trip times ranging from 3ms to 59ms, and statistics showing 0% loss. The Laptop12 Command Prompt shows the execution of 'ping 192.168.7.102', displaying four successful replies with round trip times ranging from 1ms to 3ms, and statistics showing 0% loss.

```
PC18
Physical Config Desktop Programming Attributes
Command Prompt
Approximate round trip times in milli-seconds:
  Minimum = 24ms, Maximum = 42ms, Average = 31ms
C:\>ping 192.168.6.12
Pinging 192.168.6.12 with 32 bytes of data:
Reply from 192.168.6.12: bytes=32 time=59ms TTL=126
Reply from 192.168.6.12: bytes=32 time=3ms TTL=126
Reply from 192.168.6.12: bytes=32 time=10ms TTL=126
Reply from 192.168.6.12: bytes=32 time=45ms TTL=126
Ping statistics for 192.168.6.12:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
  Minimum = 3ms, Maximum = 59ms, Average = 29ms
C:\>ping 192.168.6.12
Pinging 192.168.6.12 with 32 bytes of data:
Reply from 192.168.6.12: bytes=32 time=53ms TTL=126
Reply from 192.168.6.12: bytes=32 time=35ms TTL=126
Reply from 192.168.6.12: bytes=32 time=1ms TTL=126
Reply from 192.168.6.12: bytes=32 time=10ms TTL=126
Ping statistics for 192.168.6.12:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
  Minimum = 1ms, Maximum = 53ms, Average = 24ms
C:\>

Laptop12
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.7.102
Pinging 192.168.7.102 with 32 bytes of data:
Reply from 192.168.7.102: bytes=32 time=2ms TTL=126
Reply from 192.168.7.102: bytes=32 time=1ms TTL=126
Reply from 192.168.7.102: bytes=32 time=3ms TTL=126
Reply from 192.168.7.102: bytes=32 time=2ms TTL=126
Ping statistics for 192.168.7.102:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
  Minimum = 1ms, Maximum = 3ms, Average = 2ms
C:\>
```

I pinged ip between devices on every station, and here are some examples

The image shows a window titled 'Smartphone0' from the Cisco Packet Tracer application. It has tabs for 'Physical', 'Config', 'Desktop', 'Programming', and 'Attributes', with 'Desktop' selected. The window contains a 'Command Prompt' window showing the execution of 'ping 192.168.2.205', displaying four successful replies with round trip times ranging from 7ms to 16ms, and statistics showing 0% loss.

```
Smartphone0
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.2.205
Pinging 192.168.2.205 with 32 bytes of data:
Reply from 192.168.2.205: bytes=32 time=81ms TTL=126
Reply from 192.168.2.205: bytes=32 time=16ms TTL=126
Reply from 192.168.2.205: bytes=32 time=7ms TTL=126
Reply from 192.168.2.205: bytes=32 time=24ms TTL=126
Ping statistics for 192.168.2.205:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
  Minimum = 7ms, Maximum = 81ms, Average = 32ms
C:\>
```

Report

Web Server

PhysicalConfigServicesDesktopProgrammingAttributes

SERVICES

HTTPDHCPDHCPv6TFTPDNSSYSLOGAAAANTPEMAILFTPIoTVM ManagementRadius EAP

HTTP

HTTPOnOffHTTPSOnOff

File Manager

	File Name	Edit	Delete
1	copyrights.html	(edit)	(delete)
2	cscoptlogo177x111.jpg		(delete)
3	helloworld.html	(edit)	(delete)
4	image.html	(edit)	(delete)
5	index.html	(edit)	(delete)

Smartphone0

PhysicalConfigDesktopProgrammingAttributes

Web Browser

<>URLhttp://fantasy.comGoStop

Cisco Packet Tracer

Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.

Almaz Arynov

Quick Links:
[A small page](#)
[Copyrights](#)
[Image page](#)
[Image](#)

DNS

PhysicalConfigServicesDesktopProgrammingAttributes

SERVICES

HTTPDHCPDHCPv6TFTPDNSSYSLOGAAAANTPEMAILFTPIoTVM ManagementRadius EAP

DNS

DNS ServiceOnOff

Resource Records

Namefantasy.comTypeA Record

Address192.168.3.3

AddSaveRemove

No.	Name	Type	Detail
0	fantasy.com	A Record	192.168.3.3

Web Server

PhysicalConfigServicesDesktopProgrammingAttributes

SERVICES

HTTPDHCPDHCPv6TFTPDNSSYSLOGAAAANTPEMAILFTPIoTVM ManagementRadius EAP

File Name: index.html

<html>
<center>Cisco Packet Tracer</center>
<hr>Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.
<hr>Almaz Arynov
<p>Quick Links:

A small page

Copyrights

Image page

Image
</html>

Report

I separated DNS and Web-Server to other station from devices, configured them and add them static ip

DNS

Physical Config Services Desktop Programming Attributes

IP Configuration X

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.3.2

Subnet Mask 255.255.255.0

Default Gateway 192.168.3.1

DNS Server 0.0.0.0

Web Server

Physical Config Services Desktop Programming Attributes

IP Configuration X

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.3.3

Subnet Mask 255.255.255.0

Default Gateway 192.168.3.1

DNS Server 192.168.3.2

Report

**THANK YOU FOR
ATTENTION**

**SOFTWARE
ENGINEERING BSC
ALMAZ ARYNOV**