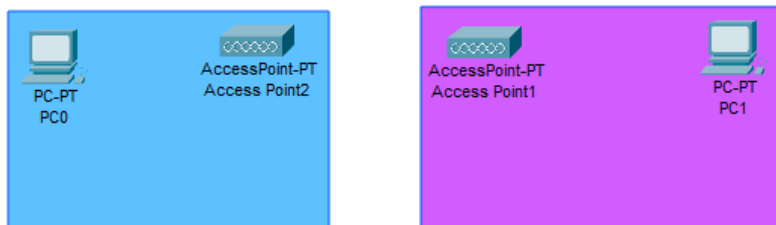
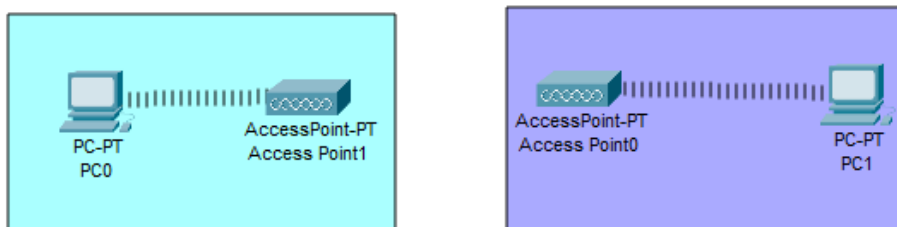


## Практическая работа 19 – Работа Wi-Fi

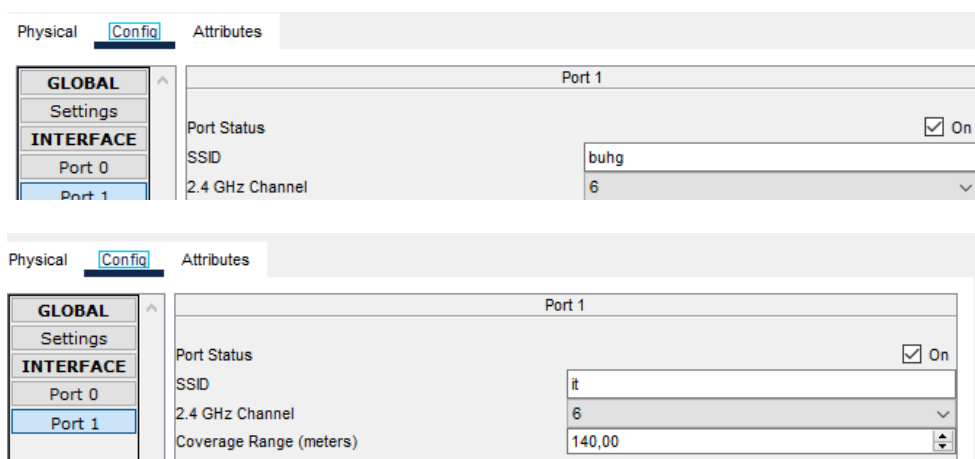
### 1. Строю сеть



### 2. Настраиваю PC0/1



### 3. Меняю наименования SSID (из-за чего связь обрывается)



#### 4. В ПК0 и ПК1 начинаю конфигурацию

PC0

Physical **Config** Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

Wireless0

Bluetooth

Wireless0

Port Status ☒ On

Bandwidth 18 Mbps

MAC Address 0001.63B2.5A0B

SSID buhg

Authentication

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

Method: MD5

WEP Key

PSK Pass Phrase

User ID

Password

User Name

Password

Encryption Type Disabled

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.1.1

Subnet Mask 255.255.255.0

PC1

Physical **Config** Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

Wireless0

Bluetooth

Wireless0

Port Status ☒ On

Bandwidth 24 Mbps

MAC Address 000A.4139.69B6

SSID it

Authentication

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

Method: MD5

WEP Key

PSK Pass Phrase

User ID

Password

User Name

Password

Encryption Type Disabled

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.2.1

Subnet Mask 255.255.255.0

## 5. Добавляю Роутер и прописываю связи для обоих портов

SWITCHING	
VLAN Database	
INTERFACE	
FastEthernet0/0	
FastEthernet0/1	

IP Configuration	
IPv4 Address	192.168.1.100
Subnet Mask	255.255.255.0

Tx Ring Limit	10
---------------	----

SWITCHING	
VLAN Database	
INTERFACE	
FastEthernet0/0	
FastEthernet0/1	

IP Configuration	
IPv4 Address	192.168.2.100
Subnet Mask	255.255.255.0

Tx Ring Limit	10
---------------	----

## 6. Для ПК прописываю шлюз по умолчанию

PC0

Physical **Config** Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

Wireless0

Bluetooth

Global Settings

Display Name PC0

Interfaces Wireless0

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway 192.168.1.100

DNS Server

PC1

Physical **Config** Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

Wireless0

Bluetooth

Global Settings

Display Name PC1

Interfaces Wireless0

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway 192.168.2.100

DNS Server

## 7. Тестирую

```
Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>
ping 192.168.2.1

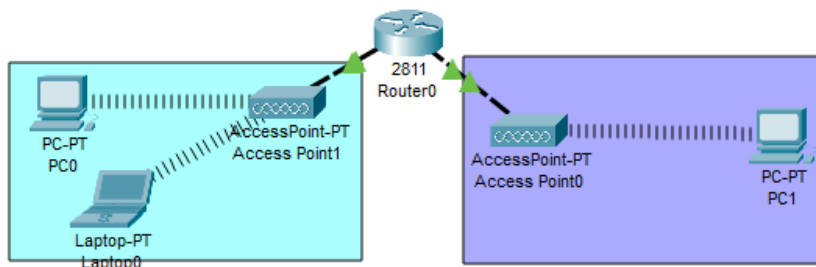
Pinging 192.168.2.1 with 32 bytes of data:

Request timed out.
Reply from 192.168.2.1: bytes=32 time=25ms TTL=127
Reply from 192.168.2.1: bytes=32 time=26ms TTL=127
Reply from 192.168.2.1: bytes=32 time=32ms TTL=127

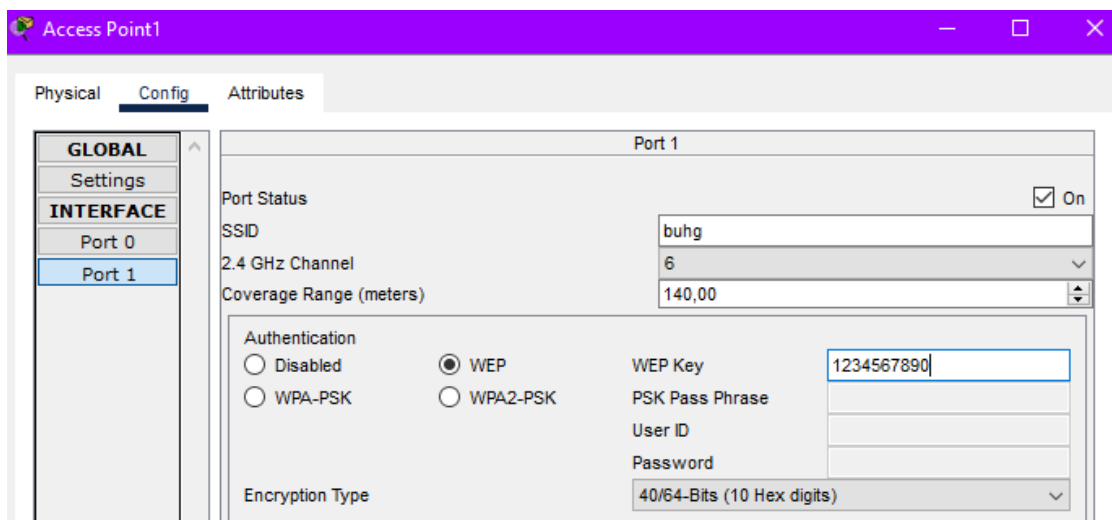
Ping statistics for 192.168.2.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 25ms, Maximum = 32ms, Average = 27ms

C:\>|
```

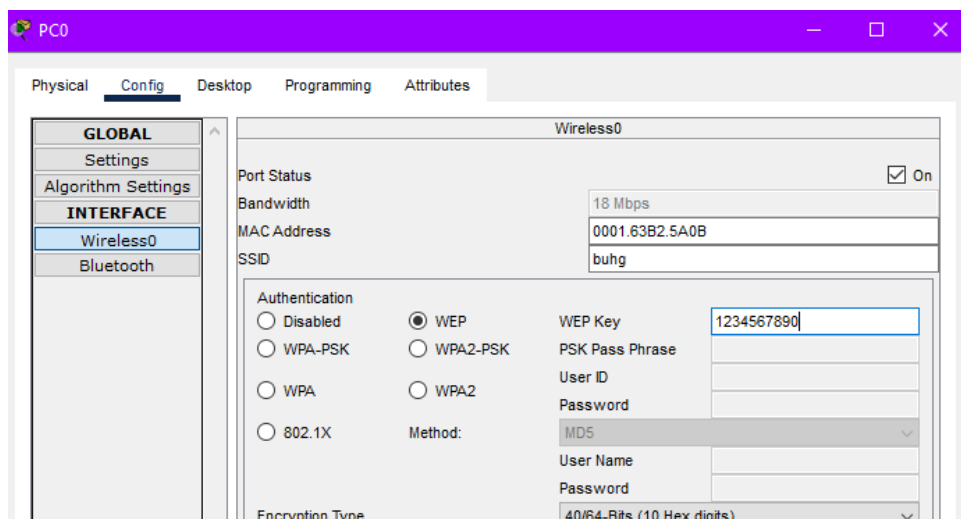
8. Добавляю новый компьютер «злоумышленника», который хочет подключиться к сети



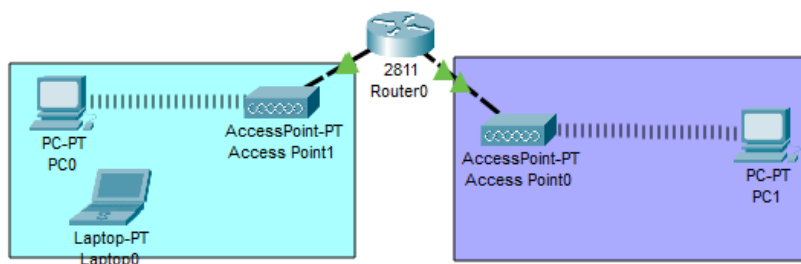
9. Для предотвращения свободного подключения перехожу в Access Point отдела бухгалтеров и устанавливаю алгоритм шифрования WEP и прописываю ключ:



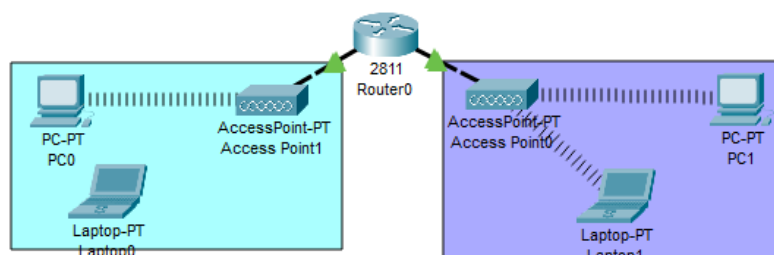
10. И на ПК0 также прописываю ключ



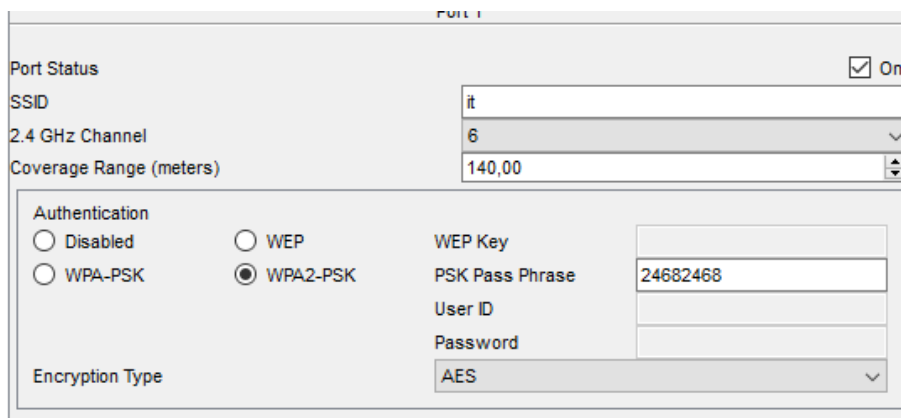
11. Итог



12. Также добавляю новый ПК для второй сети



13. И использую защиту WPA2



Physical	Config	Desktop	Programming	Attributes
<div> <div> <b>GLOBAL</b>            Settings            Algorithm Settings  <b>INTERFACE</b>            Wireless0            Bluetooth         </div> <div> <b>Wireless0</b>  <div> Port Status <input checked="" type="checkbox"/> On  Bandwidth 24 Mbps  MAC Address 000A.4139.69B6  SSID it </div> <div> Authentication  <input type="radio"/> Disabled    <input type="radio"/> WEP    WEP Key  <input type="radio"/> WPA-PSK    <input checked="" type="radio"/> WPA2-PSK    PSK Pass Phrase 24682468  <input type="radio"/> WPA    <input type="radio"/> WPA2    User ID  <input type="radio"/> 802.1X    Method:    Password                                             MD5            User Name            Password            Encryption Type AES </div> </div> </div>				

14. Итог

