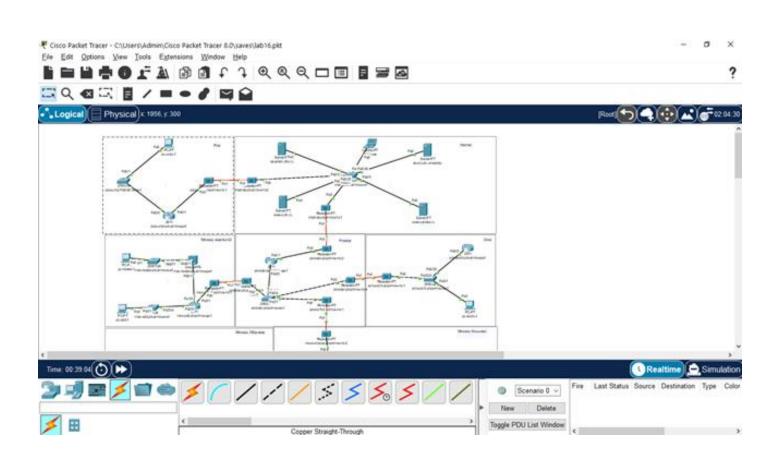
```
__modifier_ob_
mirror object to mirror
mirror_mod.mirror_object
peration == "MIRROR_X":
eirror_mod.use_x = True
irror_mod.use_y = False
lrror_mod.use_z = False
 _operation == "MIRROR_Y"
lrror_mod.use_x = False
 lrror_mod.use_y = True
 lrror_mod.use_z = False
 operation == "MIRROR_Z";
  rror_mod.use_x = False
  rror_mod.use_y = False
  __mod.use_z = True
 melection at the end -add
  ob.select= 1
   er ob.select=1
   ntext.scene.objects.acti
   "Selected" + str(modification
   irror ob.select = 0
  bpy.context.selected_obj
  lata.objects[one.name].sell
  int("please select exaction
  OPERATOR CLASSES ----
   vpes.Operator):
    X mirror to the select
   ject.mirror_mirror_x"
 ext.active_object is not
```

# Настройка VPN

Студент: Каримов Зуфар

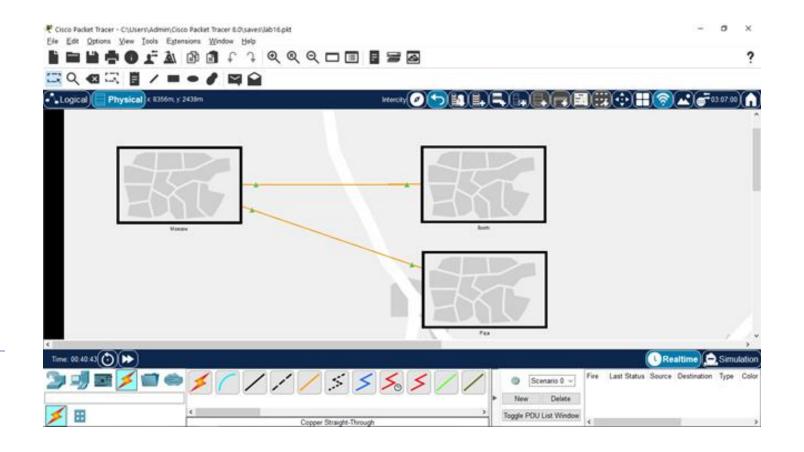
Группа: НПИбд-01-18

### Рабочая область проекта



- Layer 1 (физический уровень)
- Layer 2 (канальный уровень)
- Layer 3 (сетевой увровень)
- Таблицы портов и ір.

# Физическая рабочая область проекта



## Настройка площадки в г. Пиза

```
The name for the keys will be: piza-unipi-zikarimov-gw1.unipi.edu

Choose the size of the key modulus in the range of 360 to 2048 for your

General Purpose Keys. Choosing a key modulus greater than 512 may take
 a few minutes.

How many bits in the modulus [512]: 2048
% Generating 2048 bit RSA keys, keys will be non-exportable...[OK]

piza-unipi-zikarimov-gw1(config) #line vty 0 4
*Mar 1 0:5:3.756: %SSH-5-ENABLED: SSH 1.99 has been enabled
piza-unipi-zikarimov-gw1(config-line) #transport input ssh piza-unipi-zikarimov-gw1(config-line) #e
```

piza-unipi-zikarimov-gwl(config)#crypto key generate rsa

```
piza-unipi-zikarimov-gw1(config)#line vty 0 4
piza-unipi-zikarimov-gwl(config-line) #password cisco
piza-unipi-zikarimov-gwl(config-line)#login
piza-unipi-zikarimov-gw1(config-line)#exit
piza-unipi-zikarimov-gwl(config)#line console 0
piza-unipi-zikarimov-gwl(config-line)#password cisco
piza-unipi-zikarimov-gwl(config-line)#login
piza-unipi-zikarimov-gwl(config-line)#exit
piza-unipi-zikarimov-gwl(config)#enable secret cisco
piza-unipi-zikarimov-gwl(config)#service pass
piza-unipi-zikarimov-gwl(config) #service password-
encryption
piza-unipi-zikarimov-gwl(config)#username admin priv
piza-unipi-zikarimov-gw1(config) #username admin privilege
1 secret cisco
piza-unipi-zikarimov-gw1(config)#ip domain-name unipi.edu
```

### Настройка интерфейсов

```
piza-unipi-zikarimov-swl (config) #interface f0/24
piza-unipi-zikarimov-sw1(config-if)#sw
piza-unipi-zikarimov-sw1(config-if) #switchport mode trunk
piza-unipi-zikarimov-sw1(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface
FastEthernet0/24, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface
FastEthernet0/24, changed state to up
piza-unipi-zikarimov-sw1(config-if)#exit
piza-unipi-zikarimov-swl(config)#interface f0/1
piza-unipi-zikarimov-swl(config-if)#sw
piza-unipi-zikarimov-sw1(config-if) #switchport mode access
piza-unipi-zikarimov-sw1(config-if)#sw
piza-unipi-zikarimov-swl(config-if) #switchport ac
piza-unipi-zikarimov-sw1(config-if) #switchport access vlan
401
% Access VLAN does not exist. Creating vlan 401
piza-unipi-zikarimov-sw1(config-if)#exit
```

```
piza-unipi-zikarimov-sw1(config) #vlan 401
piza-unipi-zikarimov-sw1(config-vlan) #name unipi-main
piza-unipi-zikarimov-sw1(config-vlan) #exit
piza-unipi-zikarimov-sw1(config) #interface vlan401
piza-unipi-zikarimov-sw1(config-if) #
%LINK-5-CHANGED: Interface Vlan401, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan401, changed state to up
exit
piza-unipi-zikarimov-sw1(config) #exit
```

# Настройка VPN на основе GRE

```
msk-konkova-zikarimov-gwl(config)#interface Tunnel0

msk-konkova-zikarimov-gwl(config-if)#
%LINK-5-CHANGED: Interface Tunnel0, changed state to up ip add
msk-konkova-zikarimov-gwl(config-if)#ip address
10.128.255.253 255.255.255.252
msk-konkova-zikarimov-gwl(config-if)#tunnel source f0/1.4
msk-konkova-zikarimov-gwl(config-if)#tunnel des
msk-konkova-zikarimov-gwl(config-if)#tunnel destination
192.0.2.20
msk-konkova-zikarimov-gwl(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Tunnel0, changed state to up
exit
```

```
msk-konkova-zikarimov-gwl(config)#interface loopback0

msk-konkova-zikarimov-gwl(config-if)#
%LINK-5-CHANGED: Interface Loopback0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback0, changed state to up
ip add
msk-konkova-zikarimov-gwl(config-if)#ip address
10.128.254.1 255.255.255.255
msk-konkova-zikarimov-gwl(config-if)#exit
msk-konkova-zikarimov-gwl(config)#ip route 10.128.254.5
255.255.255.255 10.128.255.254
msk-konkova-zikarimov-gwl(config)#exit
msk-konkova-zikarimov-gwl(config)#exit
msk-konkova-zikarimov-gwl#
%SYS-5-CONFIG_I: Configured from console by console
w
```

# Проверить доступность узлов

