

Министерство образования Республики Беларусь

Учреждение образования
БЕЛОРУССКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ
ИНФОРМАТИКИ И РАДИОЭЛЕКТРОНИКИ

Факультет компьютерных систем и сетей

Кафедра электронных вычислительных машин

Дисциплина: Оборудование компьютерных сетей

ОТЧЕТ
по лабораторной работе № 4

ВАРИАНТ 11

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МИНСК 2024

1 ПРАКТИЧЕСКАЯ ЧАСТЬ

1.1 Часть рабочей конфигурации N1

```
interface FastEthernet0/1
  switchport trunk allowed vlan 10,20,30,40,50,100
!
interface GigabitEthernet0/1
  switchport trunk allowed vlan 10,20,30,40,50,100
!
interface GigabitEthernet0/2
  switchport trunk allowed vlan 10,20,30,40,50,100
```

1.2 Часть рабочей конфигурации N2

```
interface FastEthernet0/1
  switchport trunk allowed vlan 10,20,30,40,50,100
!
interface FastEthernet0/2
  switchport trunk allowed vlan 10,20,30,40,50,100
!
interface FastEthernet0/3
  switchport trunk allowed vlan 10,20,30,40,50,100
```

1.3 Часть рабочей конфигурации N3

```
interface FastEthernet0/1
  switchport trunk allowed vlan 10,20,30,40,50,100
!
interface FastEthernet0/2
  switchport trunk allowed vlan 10,20,30,40,50,100
!
interface FastEthernet0/3
  switchport access vlan 10
  switchport mode access
!
interface FastEthernet0/4
  switchport trunk native vlan 10
  switchport trunk allowed vlan 10,20,30,40,50,100
  switchport mode trunk
!
interface FastEthernet0/5
  switchport trunk native vlan 10
  switchport trunk allowed vlan 10,20,30,40,50,100
```

```
switchport mode trunk
!  
interface GigabitEthernet0/1  
switchport trunk native vlan 10  
switchport trunk allowed vlan 10,20,30,40,50,100  
switchport mode trunk
```

1.4 Часть рабочей конфигурации N4

```
interface Port-channel1  
switchport trunk allowed vlan 10,20,30,40,50,100  
!  
interface FastEthernet0/1  
switchport trunk allowed vlan 10,20,30,40,50,100  
!  
interface FastEthernet0/2  
switchport trunk allowed vlan 10,20,30,40,50,100  
!  
interface GigabitEthernet0/1  
switchport trunk allowed vlan 10,20,30,40,50,100  
!  
interface GigabitEthernet0/2  
switchport trunk allowed vlan 10,20,30,40,50,100  
!
```

1.5 Часть рабочей конфигурации N5

```
interface GigabitEthernet0/1  
switchport trunk allowed vlan 10,20,30,40,50,100
```

1.6 Часть рабочей конфигурации N6

```
interface FastEthernet0/4  
switchport trunk allowed vlan 10,20,30,40,50,100  
!  
interface GigabitEthernet0/1  
switchport trunk allowed vlan 10,20,30,40,50,100
```

1.7 Часть рабочей конфигурации N7

```
interface FastEthernet0/1  
switchport trunk allowed vlan 10,20,30,40,50,100  
!  
interface GigabitEthernet0/1
```

```
switchport trunk allowed vlan 10,20,30,40,50,100
!  
interface GigabitEthernet0/2  
switchport trunk allowed vlan 10,20,30,40,50,100
```

1.8 Часть рабочей конфигурации N8

```
ip dhcp excluded-address 107.3.38.209  
ip dhcp excluded-address 107.3.38.210  
ip dhcp excluded-address 197.18.46.33  
ip dhcp excluded-address 197.18.46.34  
!  
ip dhcp pool net_1_pool  
network 107.3.38.208 255.255.255.240  
default-router 107.3.38.209  
ip dhcp pool net_2_pool  
network 197.18.46.32 255.255.255.224  
default-router 197.18.46.33  
!  
spanning-tree vlan 10,20,30,40,50,100 priority 24576  
!  
interface Port-channel1  
switchport trunk allowed vlan 10,20,30,40,50,100  
!  
interface FastEthernet0/1  
switchport trunk allowed vlan 10,20,30,40,50,100  
!  
interface FastEthernet0/2  
switchport trunk allowed vlan 10,20,30,40,50,100  
!  
interface Vlan40  
mac-address 00d0.ba90.3c04  
ip address 107.3.38.209 255.255.255.240  
ip helper-address 9.192.0.13  
!  
interface Vlan50  
mac-address 00d0.ba90.3c05  
ip address 197.18.46.33 255.255.255.224  
ip helper-address 9.192.0.13  
!
```

1.9 Настройка Tablet PC0

Tablet PC0

Physical Config Desktop Programming Attributes

IP Configuration

Interface: Wireless0

IP Configuration

☒ DHCP ☐ Static

IPv4 Address: 197.18.46.36

Subnet Mask: 255.255.255.224

Default Gateway: 197.18.46.33

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::205:5EFF:FE73:76C6

Default Gateway:

DNS Server:

☐ Top

Tablet PC0

Physical Config Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

Wireless0

3G/4G Cell1

Bluetooth

Wireless0

Port Status: ☒ On

Bandwidth: 270 Mbps

MAC Address: 0005.5E73.76C6

SSID: net_2

Authentication

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

Method: WPA2

WEP Key:

PSK Pass Phrase:

User ID: tablet0

Password: 123tablet0321

MD5

User Name:

Password:

Encryption Type: AES

IP Configuration

☒ DHCP ☐ Static

IPv4 Address: 197.18.46.36

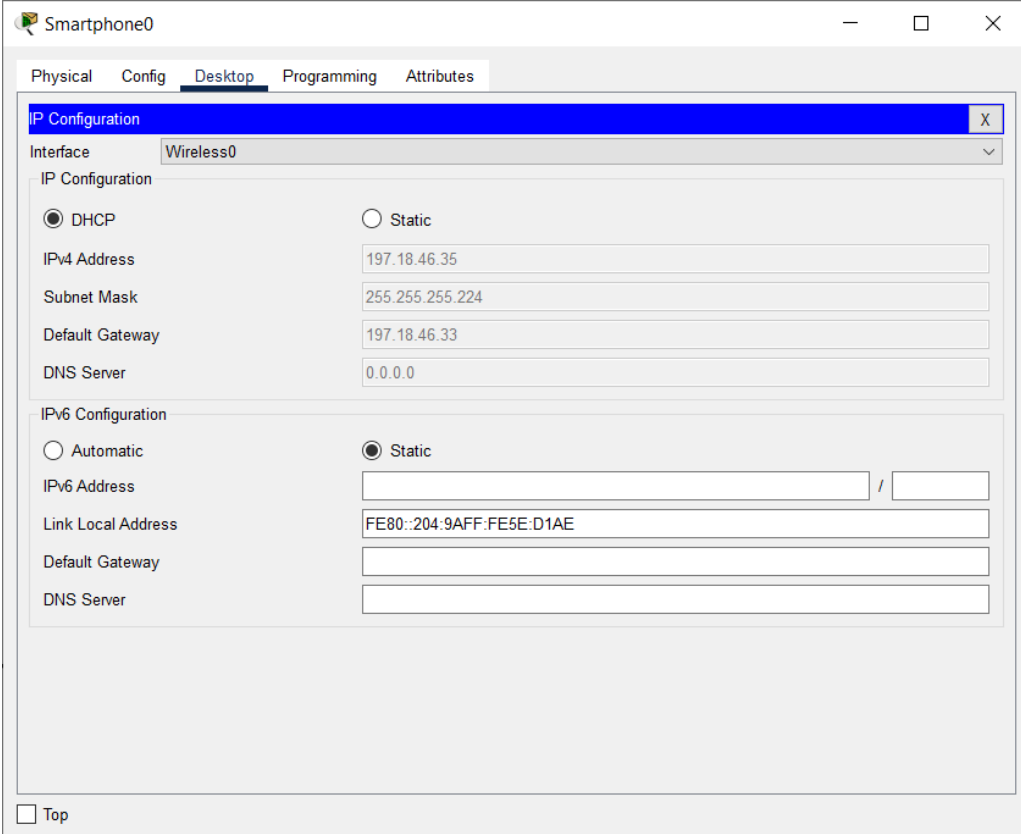
Subnet Mask: 255.255.255.224

IPv6 Configuration

☐ Automatic ☒ Static

☐ Top

1.10 Настройка Smartphone0



Smartphone0

Physical Config Desktop Programming Attributes

IP Configuration X

Interface: Wireless0

IP Configuration

☒ DHCP ☐ Static

IPv4 Address: 197.18.46.35

Subnet Mask: 255.255.255.224

Default Gateway: 197.18.46.33

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

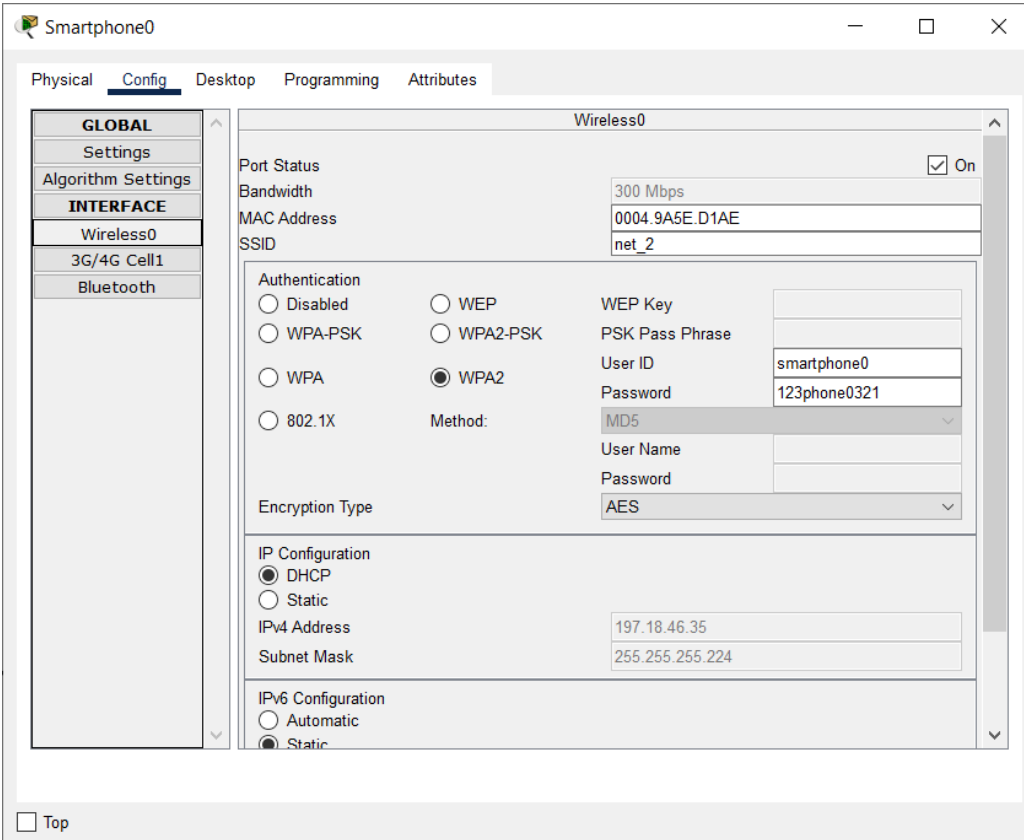
IPv6 Address: /

Link Local Address: FE80::204:9AFF:FE5E:D1AE

Default Gateway:

DNS Server:

☐ Top



Smartphone0

Physical Config Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

Wireless0

3G/4G Cell1

Bluetooth

Wireless0

Port Status: ☒ On

Bandwidth: 300 Mbps

MAC Address: 0004.9A5E.D1AE

SSID: net_2

Authentication

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

Method: ☒ WPA2

WEP Key:

PSK Pass Phrase:

User ID: smartphone0

Password: 123phone0321

MD5

User Name:

Password:

Encryption Type: AES

IP Configuration

☒ DHCP ☐ Static

IPv4 Address: 197.18.46.35

Subnet Mask: 255.255.255.224

IPv6 Configuration

☐ Automatic ☒ Static

☐ Top

1.11 Настройка Laptop3

Laptop3

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface: Wireless0

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IPv4 Address: 107.3.38.211

Subnet Mask: 255.255.255.240

Default Gateway: 107.3.38.209

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::240:BFF:FE11:43D5

Default Gateway:

DNS Server:

☐ Top

Laptop3

Physical **Config** Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

Wireless0

Bluetooth

Wireless0

Port Status: ☒ On

Bandwidth: 300 Mbps

MAC Address: 0040.0B11.43D5

SSID: net_1

Authentication

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

Method: MD5

WEP Key:

PSK Pass Phrase:

User ID: laptop3

Password: 123laptop3321

User Name:

Password:

Encryption Type: AES

IP Configuration

☒ DHCP ☐ Static

IPv4 Address: 169.254.67.213

Subnet Mask: 255.255.0.0

IPv6 Configuration

☐ Automatic ☒ Static

☐ Top

1.12 Настройка LWAP-1 (3702i)

LWAP-1

Physical **Config** Attributes

GLOBAL

Settings

WLC

INTERFACE

GigabitEthernet0

Dot11Radio0

Primary Controller 9.192.0.12

LWAP-1

Physical **Config** Attributes

GLOBAL

Settings

WLC

INTERFACE

GigabitEthernet0

Dot11Radio0

GigabitEthernet0

Port Status ☒ On

Bandwidth ☐ 1000 Mbps ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0003.E4B1.C801

IP Configuration

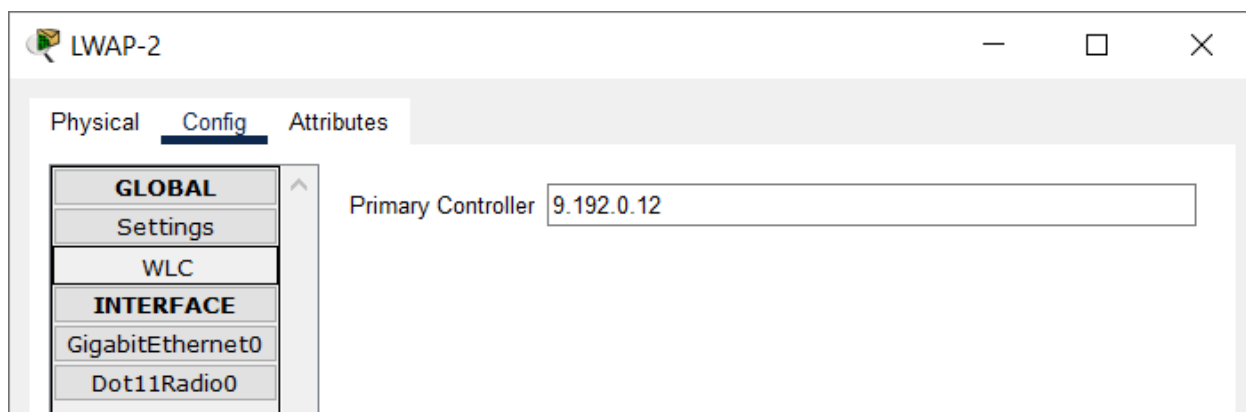
☐ DHCP

☒ Static

IPv4 Address 9.192.0.10

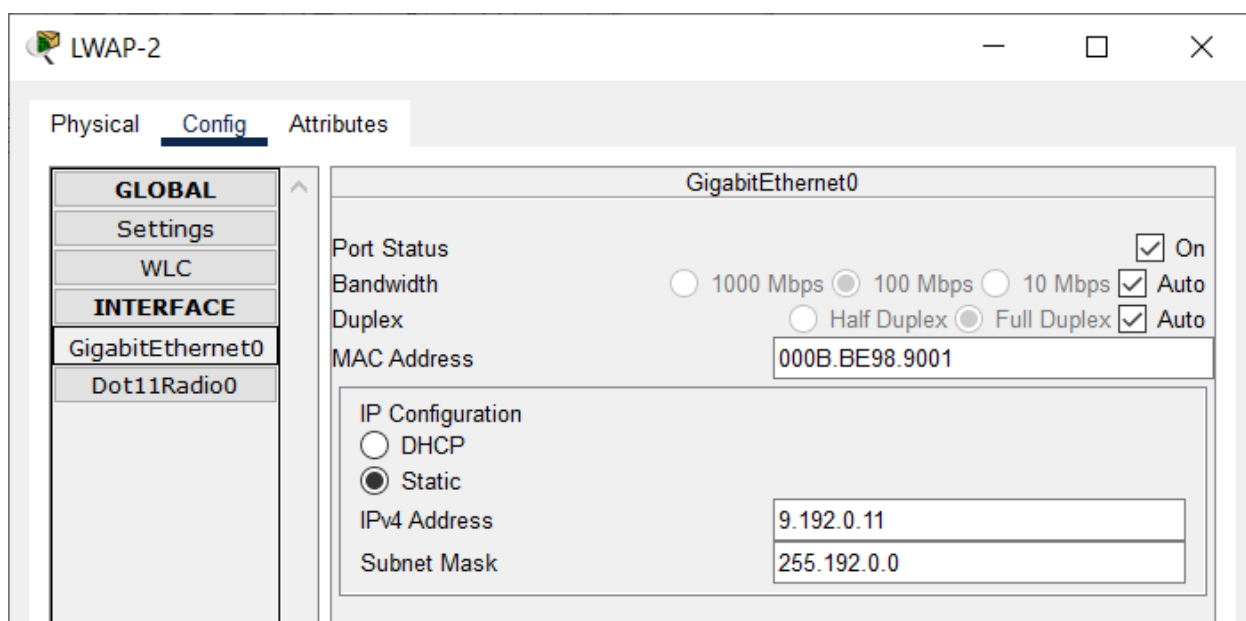
Subnet Mask 255.192.0.0

1.13 Настройка LWAP-2 (3702i)



The screenshot shows the 'LWAP-2' configuration window with the 'Config' tab selected. On the left, a tree view shows 'GLOBAL' expanded, with 'Settings' selected. The main area displays the 'Primary Controller' field with the value '9.192.0.12'.

| Tab | Field | Value |
|----------|--------------------|------------|
| Physical | Primary Controller | 9.192.0.12 |
| | Settings | |



The screenshot shows the 'LWAP-2' configuration window with the 'Config' tab selected. On the left, a tree view shows 'INTERFACE' expanded, with 'GigabitEthernet0' selected. The main area displays the configuration for 'GigabitEthernet0'.

| Tab | Field | Value |
|-----------|------------------|--|
| Physical | Port Status | <input checked="" type="checkbox"/> On |
| | Bandwidth | <input type="radio"/> 1000 Mbps <input checked="" type="radio"/> 100 Mbps <input type="radio"/> 10 Mbps <input checked="" type="checkbox"/> Auto |
| Config | Duplex | <input type="radio"/> Half Duplex <input checked="" type="radio"/> Full Duplex <input checked="" type="checkbox"/> Auto |
| | MAC Address | 000B.BE98.9001 |
| Interface | IP Configuration | <input type="radio"/> DHCP <input checked="" type="radio"/> Static |
| | IPv4 Address | 9.192.0.11 |
| | Subnet Mask | 255.192.0.0 |

1.14 Настройка Server0

The screenshot shows the 'Server0' configuration window with the 'Desktop' tab selected. The 'IP Configuration' section is active, showing settings for both IPv4 and IPv6. The IPv4 configuration is set to 'Static' with an IP address of 9.192.0.13, a subnet mask of 255.192.0.0, a default gateway of 9.192.0.1, and a DNS server of 0.0.0.0. The IPv6 configuration is also set to 'Static' with a link local address of FE80::2E0:8FFF:FEBA:D474. The '802.1X' section is visible but not configured, with 'Use 802.1X Security' unchecked and 'Authentication' set to 'MD5'.

Server0

Physical Config Services **Desktop** Programming Attributes

IP Configuration X

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 9.192.0.13

Subnet Mask 255.192.0.0

Default Gateway 9.192.0.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::2E0:8FFF:FEBA:D474

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

The screenshot shows the 'Server0' configuration window with the 'Services' tab selected. The 'AAA' service is configured. The 'Service' is set to 'On' and the 'Radius Port' is 1645. The 'Network Configuration' section shows a client named 'wlc' with IP 9.192.0.12, using a 'Radius' server type and key 'qwerty123'. The 'User Setup' section shows three users: 'laptop3' with password '123laptop3321', 'smartphone0' with password '123phone0321', and 'tablet0' with password '123tablet0321'.

Server0

Physical Config **Services** Desktop Programming Attributes

SERVICES

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA**
- NTP
- EMAIL
- FTP
- IoT
- VM Management
- Radius EAP

AAA

Service ☒ On ☐ Off Radius Port 1645

Network Configuration

Client Name Client IP Secret ServerType Radius

| | Client Name | Client IP | Server Type | Key |
|---|-------------|------------|-------------|-----------|
| 1 | wlc | 9.192.0.12 | Radius | qwerty123 |

Add Save Remove

User Setup

Username Password

| | Username | Password |
|---|-------------|---------------|
| 1 | laptop3 | 123laptop3321 |
| 2 | smartphone0 | 123phone0321 |
| 3 | tablet0 | 123tablet0321 |

Add Save Remove

☐ Top

Если DHCP на сервере:

Server0

PhysicalConfigServicesDesktopProgrammingAttributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

DHCP

InterfaceFastEthernet0ServiceOnOff

Pool NameserverPool

Default Gateway0.0.0.0

DNS Server0.0.0.0

Start IP Address :919200

Subnet Mask:25519200

Maximum Number of Users :512

TFTP Server:0.0.0.0

WLC Address:0.0.0.0

AddSaveRemove

| Pool Name | Default Gateway | DNS Server | Start IP Address | Subnet Mask | Max User | TFTP Server | WLC Address |
|------------|-----------------|------------|------------------|-----------------|----------|-------------|-------------|
| net_2_pool | 197.18.46.33 | 0.0.0.0 | 197.18.46.35 | 255.255.255.... | 29 | 0.0.0.0 | 9.192.0.12 |
| net_1_pool | 107.3.38.209 | 0.0.0.0 | 107.3.38.211 | 255.255.255.... | 13 | 0.0.0.0 | 9.192.0.12 |
| serverPool | 0.0.0.0 | 0.0.0.0 | 9.192.0.0 | 255.192.0.0 | 512 | 0.0.0.0 | 0.0.0.0 |

Top

1.15 Настройка WLC-3504

WLC-3504

Physical **Config** Attributes

GLOBAL

Settings

INTERFACE

GigabitEthernet1

GigabitEthernet2

GigabitEthernet3

GigabitEthernet4

GigabitEthernet5

Management

Management

IP Configuration

IPv4 Address 9.192.0.12

Subnet Mask 255.192.0.0

Default Gateway 9.192.0.1

DNS Server

☐ Top

PC0

Physical Config **Desktop** Programming Attributes

Web Browser

URL https://9.192.0.12/frameWlanEdit.html

Go Stop

Save Configuration Ping Logout Refresh

CISCO MONITOR **WLANs** CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK

WLANs

WLANs

Advanced

AP Groups

WLANs > Edit 'net_1'

< BACK Apply

General Security QoS Policy-Mapping Advanced

Profile Name net_1

Type WLAN

SSID net_1

Status ☒ Enabled

Security Policies [WPA2][Auth(802.1X)]
(Modifications done under security tab will appear after applying the changes.)

Radio Policy All

Interface/Interface Group(G) net_1

Multicast Vlan Feature ☐ Enabled

Broadcast SSID ☒ Enabled

NAS-ID

Foot Notes

1 Web Policy cannot be used in combination with IPsec

2/3 FlexConnect Local Switching is not supported with IPsec, CBAC authentication, Override Interface ACLs

☐ Top

PC0

Physical Config **Desktop** Programming Attributes

Web Browser

URL: <https://9.192.0.12/frameWlanEdit.html> Go Stop

Save Configuration Ping Logout Refresh

CISCO MONITOR **WLANS** CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK

WLANS

- WLANS
- Advanced
 - AP Groups

WLANS > Edit 'net_1' < BACK Apply

General Security QoS Policy-Mapping Advanced

Layer 2 Layer 3 AAA Servers

Layer 2 Security WPA+WPA2 MAC Filtering

Fast Transition

Protected Management Frame

PMF Disabled

WPA+WPA2 Parameters

WPA Policy WPA2 Policy WPA2 Encryption AES TKIP

Authentication Key Management

802.1X Enable CKM Enable PSK Enable FT 802.1X Enable

Top

PC0

Physical Config **Desktop** Programming Attributes

Web Browser

URL: <https://9.192.0.12/frameWlanEdit.html> Go Stop

Save Configuration Ping Logout Refresh

CISCO MONITOR **WLANS** CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK

WLANS

- WLANS
- Advanced
 - AP Groups

WLANS > Edit 'net_1' < BACK Apply

General Security QoS Policy-Mapping Advanced

Layer 2 Layer 3 AAA Servers

Select AAA servers below to override use of default servers on this WLAN

Radius Servers

Radius Server Overwrite interface Enabled

Authentication Servers Accounting Servers EAP Parameters

Server 1 IP:9.192.0.13, Port:1645 None None

Server 2 None None None

Server 3 None None None

Server 4 None None None

Server 5 None None None

Server 6 None None None

Radius Server Accounting

Interim Update

LDAP Servers

Top

PC0

Physical Config **Desktop** Programming Attributes

Web Browser X

< > URL https://9.192.0.12/frameWlanEdit.html Go Stop

Save Configuration Ping Logout Refresh

CISCO MONITOR **WLANs** CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK

WLANs

- WLANs
- Advanced
 - AP Groups

WLANs > Edit 'net_1'

< BACK Apply

General Security QoS Policy-Mapping **Advanced**

FlexConnect

- FlexConnect Local Switching [2](#) ☒ Enabled
- FlexConnect Local Auth [12](#) ☒ Enabled
- Learn Client IP Address [5](#) ☒ Enabled
- Vlan based Central Switching [13](#) ☐ Enabled
- Central DHCP Processing ☐ Enabled
- Override DNS ☐ Enabled
- NAT-PAT ☐ Enabled
- Central Assoc ☐ Enabled

11k

- Assisted Roaming Prediction Optimization ☐ Enabled
- Neighbor List ☐ Enabled
- Neighbor List Dual Band ☐ Enabled

Universal AP Admin ☐

11v BSS Transition Support

- BSS Transition ☐
- Disassociation Imminent ☐
- Disassociation Timer(0 to 3000 TBTT)
- Optimized Roaming Disassociation Timer(0 to 40 TBTT)

Tunneling

- Tunnel Profile

mDNS

- mDNS Snooping ☐ Enabled

Top

PC0

Physical Config **Desktop** Programming Attributes

Web Browser X

< > URL https://9.192.0.12/frameWlanEdit.html Go Stop

Save Configuration Ping Logout Refresh

CISCO MONITOR **WLANs** CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK

WLANs

- WLANs
- Advanced
 - AP Groups

WLANs > Edit 'net_2'

< BACK Apply

General **Security** QoS Policy-Mapping Advanced

Profile Name

Type

SSID

Status ☒ Enabled

Security Policies [WPA2][Auth(802.1X)]
(Modifications done under security tab will appear after applying the changes.)

Radio Policy

Interface/Interface Group(G)

Multicast Vlan Feature ☐ Enabled

Broadcast SSID ☒ Enabled

NAS-ID

Top

PC0

Physical Config **Desktop** Programming Attributes

Web Browser

URL https://9.192.0.12/frameWlanEdit.html

Go Stop

Save Configuration Ping Logout Refresh

CISCO MONITOR **WLANS** CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK

WLANS

- WLANS
- Advanced
 - AP Groups

WLANS > Edit 'net_2'

< BACK Apply

General Security QoS Policy-Mapping Advanced

Layer 2 Layer 3 AAA Servers

Layer 2 Security 6 WPA+WPA2

MAC Filtering 2

Fast Transition

Fast Transition

Protected Management Frame

PMF Disabled

WPA+WPA2 Parameters

WPA Policy

WPA2 Policy

WPA2 Encryption

AES TKIP

Authentication Key Management

802.1X

Enable

CKM

Enable

PSK

Enable

FT 802.1X

Enable

Top

PC0

Physical Config **Desktop** Programming Attributes

Web Browser

URL https://9.192.0.12/frameWlanEdit.html

Go Stop

Save Configuration Ping Logout Refresh

CISCO MONITOR **WLANS** CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK

WLANS

- WLANS
- Advanced
 - AP Groups

WLANS > Edit 'net_2'

< BACK Apply

General Security QoS Policy-Mapping Advanced

Layer 2 Layer 3 AAA Servers

Select AAA servers below to override use of default servers on this WLAN

Radius Servers

Radius Server Overwrite interface

Enabled

Authentication Servers

Enabled

Accounting Servers

Enabled

EAP Parameters

Enable

Server 1 IP:9.192.0.13, Port:1645

None

Server 2 None

None

Server 3 None

None

Server 4 None

None

Server 5 None

None

Server 6 None

None

Radius Server Accounting

Interim Update

LDAP Servers

Top

PC0

Physical Config Desktop Programming Attributes

Web Browser

URL: https://9.192.0.12/frameWlanEdit.html

Save Configuration Ping Logout Refresh

CISCO MONITOR **WLANs** CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK

WLANs

- WLANs
- Advanced AP Groups

WLANs > Edit 'net_2'

< BACK Apply

General Security QoS Policy-Mapping **Advanced**

FlexConnect

- FlexConnect Local Switching [4](#) ☒ Enabled
- FlexConnect Local Auth [12](#) ☒ Enabled
- Learn Client IP Address [3](#) ☒ Enabled
- Vlan based Central Switching [13](#) ☐ Enabled
- Central DHCP Processing ☐ Enabled
- Override DNS ☐ Enabled
- NAT-PAT ☐ Enabled
- Central Assoc ☐ Enabled

11k

- Assisted Roaming Prediction Optimization ☐ Enabled
- Neighbor List ☐ Enabled
- Neighbor List Dual Band ☐ Enabled

Universal AP Admin ☐

11v BSS Transition Support

- BSS Transition ☐
- Disassociation Imminent ☐
- Disassociation Timer(0 to 3000 TBTT)
- Optimized Roaming Disassociation Timer(0 to 40 TBTT)

Tunneling

- Tunnel Profile

mDNS

- mDNS Snooping ☐ Enabled

Top

PC0

Physical Config Desktop Programming Attributes

Web Browser

URL: https://9.192.0.12/frameAPGroupEdit.html

Save Configuration Ping Logout Refresh

CISCO MONITOR **WLANs** CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK

WLANs

- WLANs
- Advanced AP Groups

Ap Groups > Edit 'net_group_1'

< Back

General WLANs RF Profile APs 802.11u Location Ports/Module

Apply

AP Group Name

AP Group Description

NAS-ID

Enable Client Traffic QinQ ☐

Enable DHCPv4 QinQ [3](#) ☐

QinQ Service Vlan Id

CAPWAP Preferred Mode ☐ Not-Configured

Top

PC0

Physical Config **Desktop** Programming Attributes

Web Browser

URL: https://9.192.0.12/frameAPGroupEdit.html

Go Stop

Save Configuration Ping Logout Refresh

CISCO

MONITOR **WLANs** CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK Home

WLANs

- WLANs
- Advanced**
 - AP Groups

Ap Groups > Edit 'net_group_1'

< Back

General
WLANs
RF Profile
APs
802.11u
Location
Ports/Module

Add New

| WLAN ID | WLAN SSID(2/9) | Interface/Interface Group(G) | SNMP NAC State |
|---------|----------------|------------------------------|---------------------------------|
| 2 | net_1 | net_1 | Disabled Remove |

☐ Top

PC0

Physical Config **Desktop** Programming Attributes

Web Browser

URL: https://9.192.0.12/frameAPGroupEdit.html

Go Stop

Save Configuration Ping Logout Refresh

CISCO

MONITOR **WLANs** CONTROLLER WIRELESS **AP Groups** MANAGEMENT COMMANDS HELP FEEDBACK Home

WLANs

- WLANs
- Advanced**
 - AP Groups

Ap Groups > Edit 'net_group_1'

< Back

General
WLANs
RF Profile
APs
802.11u
Location
Ports/Module

AP Name Ethernet/Interface AP Name Group Name

[Remove APs](#) [Add APs](#)

| | | |
|---------------------------------|------------------|-------------|
| <input type="checkbox"/> LWAP-1 | 0003.E4f0.LWAP-2 | net_group_2 |
|---------------------------------|------------------|-------------|

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Physical Config **Desktop** Programming Attributes

Web Browser

URL https://9.192.0.12/frameAPGroupEdit.html

Go Stop

Save Configuration Ping Logout Refresh

CISCO

MONITOR **WLANs** CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK Home

WLANs

WLANs

Advanced

AP Groups

Ap Groups > Edit 'net_group_2'

< Back

General

WLANs

RF Profile

APs

802.11u

Location

Ports/Module

Apply

AP Group Name net_group_2

AP Group Description

NAS-ID none

Enable Client Traffic QinQ

Enable DHCPv4 QinQ

QinQ Service Vlan Id 0

CAPWAP Preferred Mode Not-Configured

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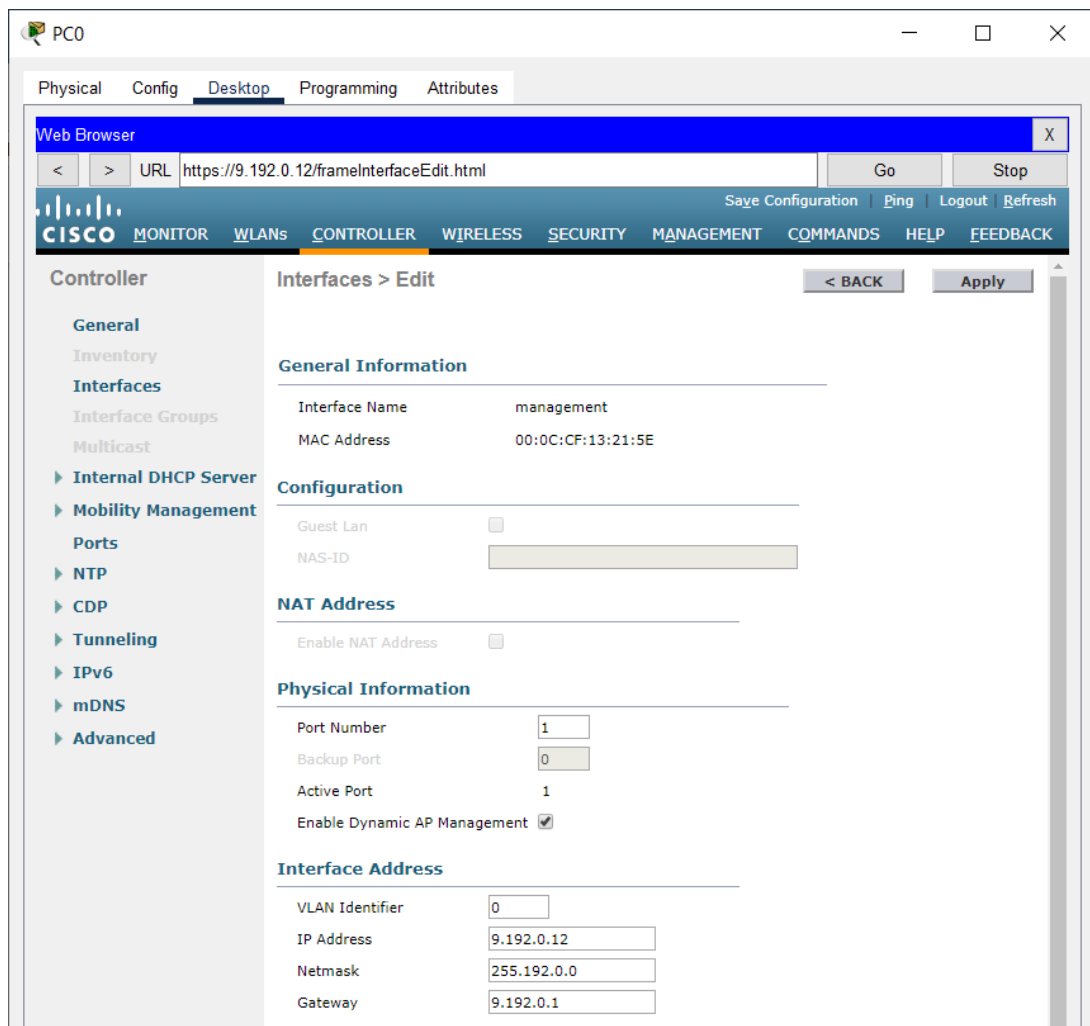
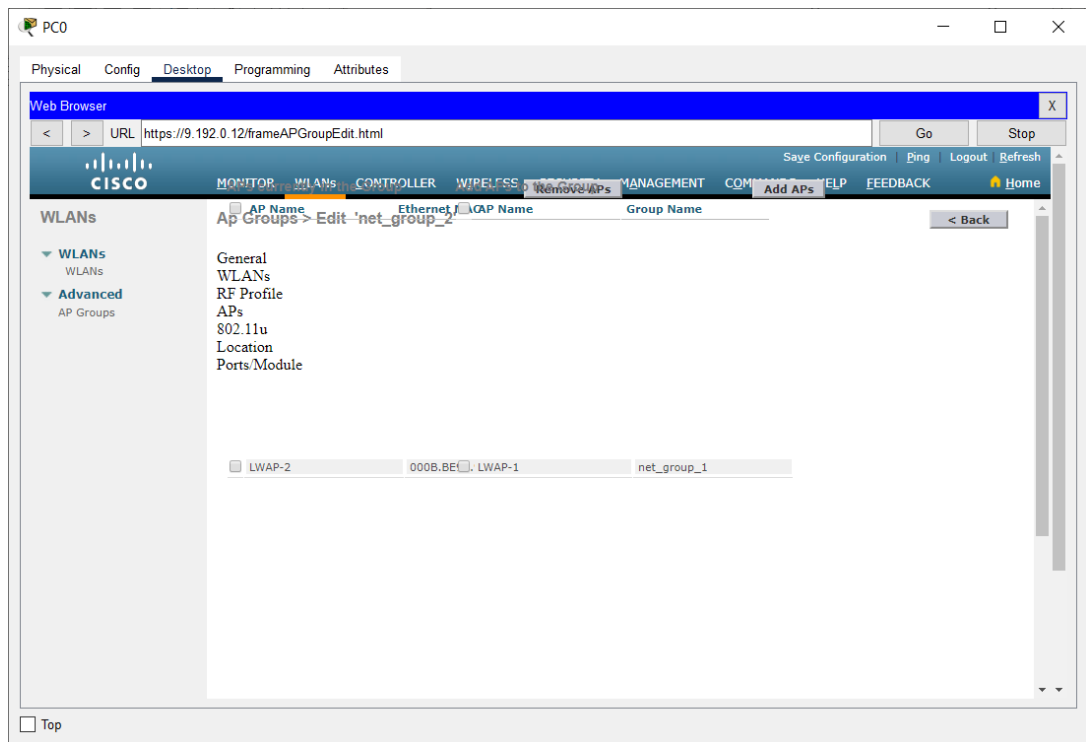
Location

Ports/Module

Add New

| WLAN ID | WLAN SSID(2/5) | Interface/Interface Group(G) | SNMP NAC State | |
|---------|----------------|------------------------------|----------------|------------------------|
| 3 | net_2 | net_2 | Disabled | Remove |

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Physical Config Desktop Programming Attributes

Web Browser

URL: https://9.192.0.12/frameInterfaceEdit.html

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CISCO MONITOR WLANS CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK

Controller

- General
- Inventory
- Interfaces
- Interface Groups
- Multicast
- Internal DHCP Server
- Mobility Management
- Ports
- NTP
- CDP
- Tunneling
- IPv6
- mDNS
- Advanced

Interfaces > Edit

< BACK Apply

General Information

Interface Name: net_1

MAC Address: 00:40:0B:CC:86:61

Configuration

Guest Lan: ☐

Quarantine: ☐

Quarantine Vlan Id: 0

NAS-ID:

Physical Information

Port Number: 1

Backup Port: 0

Active Port: 1

Enable Dynamic AP Management: ☐

Interface Address

VLAN Identifier: 40

IP Address: 107.3.38.210

Netmask: 255.255.255.240

Gateway: 107.3.38.209

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Physical Config Desktop Programming Attributes

Web Browser

URL: https://9.192.0.12/frameInterfaceEdit.html

Go Stop

Save Configuration Ping Logout Refresh

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Controller

- General
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- Interfaces
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- Internal DHCP Server
- Mobility Management
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- NTP
- CDP
- Tunneling
- IPv6
- mDNS
- Advanced

Interfaces > Edit

< BACK Apply

General Information

Interface Name: net_2

MAC Address: 00:01:42:22:64:8C

Configuration

Guest Lan: ☐

Quarantine: ☐

Quarantine Vlan Id: 0

NAS-ID:

Physical Information

Port Number: 1

Backup Port: 0

Active Port: 1

Enable Dynamic AP Management: ☐

Interface Address

VLAN Identifier: 50

IP Address: 197.18.46.34

Netmask: 255.255.255.224

Gateway: 197.18.46.33

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Physical Config **Desktop** Programming Attributes

Web Browser X

< > URL <https://9.192.0.12/frameRadiusEdit.html> Go Stop

Save Configuration | Ping | Logout | Refresh

CISCO MONITOR WLANs CONTROLLER WIRELESS **SECURITY** MANAGEMENT COMMANDS HELP FEEDBACK

Security

- AAA
 - General
 - RADIUS
 - Authentication
 - Accounting
 - Fallback
 - DNS
 - Downloaded AVP
 - TACACS+
 - LDAP
 - Local Net Users
 - MAC Filtering
 - Disabled Clients
 - User Login Policies
 - AP Policies
 - Password Policies
 - Local EAP
 - Advanced EAP
 - Priority Order
 - Certificate
 - Access Control Lists
 - Wireless Protection Policies
 - Web Auth
 - TrustSec SXP
 - Local Policies
 - Advanced

RADIUS Authentication Servers > Edit < BACK Apply

Server Index 1

Server Address(Ipv4/Ipv6) 9.192.0.13

Shared Secret Format ASCII ▾

Shared Secret

Confirm Shared Secret

Key Wrap ☐ (Designed for FIPS customers and requires a key wrap compliant RADIUS server)

Port Number 1645

Server Status Enabled ▾

Support for CoA Disabled ▾

Server Timeout 2 seconds

Network User ☒ Enable

Management ☒ Enable

Management Retransmit Timeout 2 seconds

[Realm List](#)

IPSec ☐ Enable

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РАБОЧИЕ МАТЕРИАЛЫ

WLC account:
username: admin
password: Lexaguy.com-www.ru.1
passphrase: 12345678

Switch Passwords: N{номер_свитча}qwerty123

| | | | |
|----------|-----------------|---|---|
| VLAN 10 | 9.192.0.0/10 | Административный VLAN | ● |
| VLAN 20 | 152.1.216.0/22 | Пользовательский VLAN 1 | ● |
| VLAN 30 | 171.80.24.0/22 | Пользовательский VLAN 2 | ● |
| VLAN 100 | 90.32.0.0/11 | VLAN для оригинального трафика (native) | ● |
| VLAN 40 | 107.338.208/28 | VLAN для беспроводных устройств 1 | ● |
| VLAN 50 | 197.18.48.32/27 | VLAN для беспроводных устройств 2 | ● |

