Приложение В
(обязательное)
Конфигурация оборудования

Конфигурация маршрутизатора

```
 Building configuration...

Current configuration : 5278 bytes
!
version 12.4
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Router
!
!
!
enable secret 5 $1$mERr$ZX9nCVjjxd165vnoOu0jg.
!
!
ip dhcp excluded-address 192.168.120.100
ip dhcp excluded-address 192.168.117.1
!
ip dhcp pool Telephony
network 192.168.117.0 255.255.255.0
default-router 192.168.117.1
option 150 ip 192.168.117.1
!
!
!
ip cef
no ipv6 cef
!
!
!
!
!
!
!
!
!
!
ip ftp username Admin
ip ftp password Admin
ip name-server 192.168.120.100
!
!
spanning-tree mode pvst!
!
!
!
```

```
!
!
interface FastEthernet0/0
no ip address
duplex auto
speed auto
!
interface FastEthernet0/0.210
encapsulation dot1Q 210
ip address 192.168.110.1 255.255.255.0
!
interface FastEthernet0/0.211
encapsulation dot1Q 211
ip address 192.168.111.1 255.255.255.0
ip helper-address 192.168.120.100
!
interface FastEthernet0/0.212
encapsulation dot1Q 212
ip address 192.168.112.1 255.255.255.0
ip helper-address 192.168.120.100
!
interface FastEthernet0/0.213
encapsulation dot1Q 213
ip address 192.168.113.1 255.255.255.0
ip helper-address 192.168.120.100
!
interface FastEthernet0/0.214
encapsulation dot1Q 214
ip address 192.168.114.1 255.255.255.0
ip helper-address 192.168.120.100
!
interface FastEthernet0/0.215
encapsulation dot1Q 215
ip address 192.168.115.1 255.255.255.0
ip helper-address 192.168.120.100
!
interface FastEthernet0/0.216
encapsulation dot1Q 216
ip address 192.168.116.1 255.255.255.0
ip helper-address 192.168.120.100
!
interface FastEthernet0/0.217
encapsulation dot1Q 217
ip address 192.168.117.1 255.255.255.0
ip helper-address 192.168.120.100
!
interface FastEthernet0/0.219
encapsulation dot1Q 219
ip address 192.168.119.1 255.255.255.0
!
interface FastEthernet0/0.220
encapsulation dot1Q 220
ip address 192.168.120.1 255.255.255.0
!
interface FastEthernet0/1
no ip address
duplex auto
speed auto
shutdown
```

```
!
interface Vlan1
no ip address
shutdown
!
ip classless
!
ip flow-export version 9
!
!
!
!
!
!
!
!
telephony-service
max-ephones 26
max-dn 26
ip source-address 192.168.116.100 port 2000
auto assign 1 to 26
!
ephone-dn 1
number 101
!
ephone-dn 2
number 102
!
ephone-dn 3
number 103
!
ephone-dn 4
number 104
!
ephone-dn 5
number 105
!
ephone-dn 6
number 106
!
ephone-dn 7
number 107
!
ephone-dn 8
number 108
!
ephone-dn 9
number 109
!
ephone-dn 10
number 110
!
ephone-dn 11
number 111
!
ephone-dn 12
number 112
!
ephone-dn 13
```

```
number 113
!
ephone-dn 14
number 114
!
ephone-dn 15
number 115
!
ephone-dn 16
number 116
!
ephone-dn 17
number 117
!
ephone-dn 18
number 118
!
ephone-dn 19
number 119
!
ephone-dn 20
number 120
!
ephone-dn 21
number 121
!
ephone-dn 22
number 122
!
ephone-dn 23
number 123
!
ephone-dn 24
number 124
!
ephone-dn 25
number 125
!
ephone-dn 26
number 126
!
ephone 1
device-security-mode none
mac-address 0050.0F43.7638
type 7960
button 1:4
!
ephone 2
device-security-mode none
mac-address 00D0.BCAA.28CC
type 7960
button 1:12
!
ephone 3
device-security-mode none
mac-address 000C.8573.C085
type 7960
button 1:18
!
```

```
ephone 4
device-security-mode none
mac-address 00E0.B002.DA05
type 7960
button 1:16
!
ephone 5
device-security-mode none
mac-address 0030.F2E8.8779
type 7960
button 1:14
!
ephone 6
device-security-mode none
mac-address 0001.C745.4B92
type 7960
button 1:23
!
ephone 7
device-security-mode none
mac-address 00D0.FF6D.6C03
type 7960
button 1:6
!
ephone 8
device-security-mode none
mac-address 00E0.F744.5835
type 7960
button 1:19
!
ephone 9
device-security-mode none
mac-address 00D0.D3C9.D070
type 7960
button 1:3
!
ephone 10
device-security-mode none
mac-address 0004.9A99.5D86
type 7960
button 1:11
!
ephone 11
device-security-mode none
mac-address 0009.7C37.884E
type 7960
button 1:10
!
ephone 12
device-security-mode none
mac-address 00E0.B019.38D7
type 7960
button 1:7
!
ephone 13
device-security-mode none
mac-address 0004.9A23.7996
type 7960
button 1:25
```

```
!
ephone 14
device-security-mode none
mac-address 0002.1770.CA8B
type 7960
button 1:22
!
ephone 15
device-security-mode none
mac-address 00D0.FFA3.714B
type 7960
button 1:8
!
ephone 16
device-security-mode none
mac-address 0060.70B9.E696
type 7960
button 1:17
!
ephone 17
device-security-mode none
mac-address 00E0.A328.B19B
type 7960
button 1:24
!
ephone 18
device-security-mode none
mac-address 00E0.8F27.C6C1
type 7960
button 1:2
!
ephone 19
device-security-mode none
mac-address 00D0.BAD6.7E0E
type 7960
button 1:13
!
ephone 20
device-security-mode none
mac-address 0002.1655.CC37
type 7960
button 1:1
!
ephone 21
device-security-mode none
mac-address 0002.16DA.A876
type 7960
button 1:5
!
ephone 22
device-security-mode none
mac-address 0000.0CC3.C1A5
type 7960
button 1:21
!
ephone 23
device-security-mode none
mac-address 0001.C946.6DB4
type 7960
```

```
button 1:20
!
ephone 24
device-security-mode none
mac-address 00E0.B069.0A50
type 7960
button 1:26
!
ephone 25
device-security-mode none
mac-address 0006.2A06.9435
type 7960
button 1:9
!
ephone 26
device-security-mode none
mac-address 000C.85CA.DE4C
type 7960
button 1:15
!
line con 0
exec-timeout 60 0
password Polina
login
!
line aux 0
!
line vty 0 4
login
!
!
!
end
```

Конфигурация коммутатора Switch0

```
Building configuration...

Current configuration : 3118 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Switch
!
enable secret 5 $1$mERr$ZX9nCVjjxd165vnoOu0jg.
!
!
!
!
vtp mode transparent
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
vlan 210
name Useless
!
vlan 211
name Wireless
!
vlan 212
name R
!
vlan 213
name O
!
vlan 214
name Y
!
vlan 215
name G
!
vlan 216
name B
!
vlan 217
name N
!
vlan 218
name Trunk
!
vlan 219
name Admin
!
vlan 220
name Server
!
interface FastEthernet0/1
```

```
switchport access vlan 212
switchport mode access
!
interface FastEthernet0/2
switchport access vlan 212
switchport mode access
!
interface FastEthernet0/3
switchport access vlan 212
switchport mode access
!
interface FastEthernet0/4
switchport access vlan 212
switchport mode access
!
interface FastEthernet0/5
switchport access vlan 212
switchport mode access
!
interface FastEthernet0/6
switchport access vlan 212
switchport mode access
!
interface FastEthernet0/7
switchport access vlan 212
switchport mode access
!
interface FastEthernet0/8
switchport access vlan 212
switchport mode access
!
interface FastEthernet0/9
switchport access vlan 212
switchport mode access
!
interface FastEthernet0/10
switchport access vlan 212
switchport mode access
!
interface FastEthernet0/11
switchport access vlan 212
switchport mode access
!
interface FastEthernet0/12
switchport access vlan 212
switchport mode access
!
interface FastEthernet0/13
switchport access vlan 212
switchport mode access
!
interface FastEthernet0/14
switchport access vlan 212
switchport mode access
!
interface FastEthernet0/15
switchport access vlan 210
switchport mode access
switchport voice vlan 217
```

```
!
interface FastEthernet0/16
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
interface FastEthernet0/17
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
interface FastEthernet0/18
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
interface FastEthernet0/19
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
interface FastEthernet0/20
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
interface FastEthernet0/21
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
interface FastEthernet0/22
switchport trunk native vlan 218
switchport mode trunk
!
interface FastEthernet0/23
switchport access vlan 211
switchport mode access
!
interface FastEthernet0/24
switchport access vlan 210
switchport mode access
!
interface GigabitEthernet0/1
switchport access vlan 210
switchport mode access
!
interface GigabitEthernet0/2
switchport access vlan 210
switchport mode access
!
interface Vlan1
no ip address
shutdown
!
interface Vlan219
description LAN
mac-address 00d0.ffa4.8001
ip address 192.168.119.101 255.255.255.0
```

```
!
ip default-gateway 192.168.112.1
!
!
!
!
line con 0
password Polina
login
exec-timeout 60 0
!
line vty 0 4
login
line vty 5 15
login
!
!
!
!
end
```

Конфигурация коммутатора Switch1

```
Building configuration...

Current configuration : 3218 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Switch
!
ip ftp username Admin
ip ftp password Admin
enable secret 5 $1$mERr$ZX9nCVjjxd165vnoOu0jg.
!
!
!
!
vtp mode transparent
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
vlan 210
name Useless
!
vlan 211
name Wireless
!
vlan 212
name R
!
vlan 213
name O
!
vlan 214
name Y
!
vlan 215
name G
!
vlan 216
name B
!
vlan 217
name N
!
vlan 218
name Trunk
!
vlan 219
name Admin
!
vlan 220
name Server
```

```
!
interface FastEthernet0/1
switchport access vlan 213
switchport mode access
!
interface FastEthernet0/2
switchport access vlan 213
switchport mode access
!
interface FastEthernet0/3
switchport access vlan 213
switchport mode access
!
interface FastEthernet0/4
switchport access vlan 213
switchport mode access
!
interface FastEthernet0/5
switchport access vlan 213
switchport mode access
!
interface FastEthernet0/6
switchport access vlan 213
switchport mode access
!
interface FastEthernet0/7
switchport access vlan 213
switchport mode access
!
interface FastEthernet0/8
switchport access vlan 213
switchport mode access
!
interface FastEthernet0/9
switchport access vlan 213
switchport mode access
!
interface FastEthernet0/10
switchport access vlan 213
switchport mode access
!
interface FastEthernet0/11
switchport access vlan 213
switchport mode access
!
interface FastEthernet0/12
switchport access vlan 213
switchport mode access
!
interface FastEthernet0/13
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
interface FastEthernet0/14
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
```

```
interface FastEthernet0/15
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
interface FastEthernet0/16
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
interface FastEthernet0/17
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
interface FastEthernet0/18
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
interface FastEthernet0/19
switchport trunk native vlan 218
switchport mode trunk
!
interface FastEthernet0/20
switchport access vlan 220
switchport trunk native vlan 218
switchport mode access
!
interface FastEthernet0/21
switchport trunk native vlan 218
switchport mode trunk
!
interface FastEthernet0/22
switchport trunk native vlan 218
switchport mode trunk
!
interface FastEthernet0/23
switchport trunk native vlan 218
switchport mode trunk
!
interface FastEthernet0/24
switchport access vlan 210
switchport trunk native vlan 218
switchport mode access
!
interface GigabitEthernet0/1
switchport access vlan 210
switchport mode access
!
interface GigabitEthernet0/2
switchport access vlan 210
switchport mode access
!
interface Vlan1
no ip address
shutdown
!
interface Vlan219
```

```
description LAN
mac-address 0001.6372.b501
ip address 192.168.119.102 255.255.255.0
!
ip default-gateway 192.168.113.1
!
!
!
!
line con 0
password Polina
login
exec-timeout 60 0
!
line vty 0 4
login
line vty 5 15
login
!
!
!
!
end
```

Конфигурация коммутатора Switch2

```
Building configuration...

Current configuration : 3040 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Switch
!
enable secret 5 $1$mERr$ZX9nCVjjxd165vnoOu0jg.
!
!
!
!
vtp mode transparent
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
vlan 210
name Useless
!
vlan 211
name Wireless
!
vlan 212
name R
!
vlan 213
name O
!
vlan 214
name Y
!
vlan 215
name G
!
vlan 216
name B
!
vlan 217
name N
!
vlan 218
name Trunk
!
vlan 219
name Admin
!
vlan 220
name Server
!
interface FastEthernet0/1
```

```
switchport access vlan 215
switchport mode access
!
interface FastEthernet0/2
switchport access vlan 215
switchport mode access
!
interface FastEthernet0/3
switchport access vlan 215
switchport mode access
!
interface FastEthernet0/4
switchport access vlan 215
switchport mode access
!
interface FastEthernet0/5
switchport access vlan 215
switchport mode access
!
interface FastEthernet0/6
switchport access vlan 215
switchport mode access
!
interface FastEthernet0/7
switchport access vlan 215
switchport mode access
!
interface FastEthernet0/8
switchport access vlan 215
switchport mode access
!
interface FastEthernet0/9
switchport access vlan 215
switchport mode access
!
interface FastEthernet0/10
switchport access vlan 215
switchport mode access
!
interface FastEthernet0/11
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
interface FastEthernet0/12
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
interface FastEthernet0/13
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
interface FastEthernet0/14
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
```

```
interface FastEthernet0/15
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
interface FastEthernet0/16
switchport trunk native vlan 218
switchport mode trunk
!
interface FastEthernet0/17
switchport access vlan 211
!
interface FastEthernet0/18
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/19
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/20
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/21
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/22
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/23
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/24
switchport access vlan 210
switchport mode access
!
interface GigabitEthernet0/1
switchport access vlan 210
switchport mode access
!
interface GigabitEthernet0/2
switchport access vlan 210
switchport mode access
!
interface Vlan1
no ip address
shutdown
!
interface Vlan219
description LAN
mac-address 0003.e4a3.cc01
ip address 192.168.119.104 255.255.255.0
!
ip default-gateway 192.168.115.1
!
```

```
!
!
!
line con 0
password Polina
login
exec-timeout 60 0
!
line vty 0 4
login
line vty 5 15
login
!
!
!
!
end
```

Конфигурация коммутатора Switch3

Building configuration...

Current configuration : 3018 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Switch
!
enable secret 5 1mERr$ZX9nCVjjxd165vnoOu0jg.
!
!
!
!
vtp mode transparent
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
vlan 210
name Useless
!
vlan 211
name Wireless
!
vlan 212
name R
!
vlan 213
name O
!
vlan 214
name Y
!
vlan 215
name G
!
vlan 216
name B
!
vlan 217
name N
!
vlan 218
name Trunk
!
vlan 219
name Admin
!
vlan 220
name Server
!
interface FastEthernet0/1

```
switchport access vlan 214
switchport mode access
!
interface FastEthernet0/2
switchport access vlan 214
switchport mode access
!
interface FastEthernet0/3
switchport access vlan 214
switchport mode access
!
interface FastEthernet0/4
switchport access vlan 214
switchport mode access
!
interface FastEthernet0/5
switchport access vlan 214
switchport mode access
!
interface FastEthernet0/6
switchport access vlan 214
switchport mode access
!
interface FastEthernet0/7
switchport access vlan 214
switchport mode access
!
interface FastEthernet0/8
switchport access vlan 214
switchport mode access
!
interface FastEthernet0/9
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
interface FastEthernet0/10
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
interface FastEthernet0/11
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
interface FastEthernet0/12
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
interface FastEthernet0/13
switchport trunk native vlan 218
switchport mode trunk
!
interface FastEthernet0/14
switchport trunk native vlan 218
switchport mode trunk
!
```

```
interface FastEthernet0/15
switchport access vlan 211
!
interface FastEthernet0/16
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/17
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/18
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/19
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/20
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/21
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/22
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/23
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/24
switchport access vlan 210
switchport mode access
!
interface GigabitEthernet0/1
switchport access vlan 210
switchport mode access
!
interface GigabitEthernet0/2
switchport access vlan 210
switchport mode access
!
interface Vlan1
no ip address
shutdown
!
interface Vlan219
description LAN
mac-address 00d0.bcb5.2001
ip address 192.168.119.103 255.255.255.0
!
ip default-gateway 192.168.114.1
!
!
```

```
!
!
line con 0
password Polina
login
exec-timeout 60 0
!
line vty 0 4
login
line vty 5 15
login
!
!
!
!
end
```

Конфигурация коммутатора Switch4

```
Building configuration...

Current configuration : 3037 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Switch
!
enable secret 5 $1$mERr$ZX9nCVjjxd165vnoOu0jg.
!
!
!
!
vtp mode transparent
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
vlan 210
name Useless
!
vlan 211
name Wireless
!
vlan 212
name R
!
vlan 213
name O
!
vlan 214
name Y
!
vlan 215
name G
!
vlan 216
name B
!
vlan 217
name N
!
vlan 218
name Trunk
!
vlan 219
name Admin
!
vlan 220
name Server
!
interface FastEthernet0/1
```

```
switchport access vlan 216
switchport mode access
!
interface FastEthernet0/2
switchport access vlan 216
switchport mode access
!
interface FastEthernet0/3
switchport access vlan 216
switchport mode access
!
interface FastEthernet0/4
switchport access vlan 216
switchport mode access
!
interface FastEthernet0/5
switchport access vlan 216
switchport mode access
!
interface FastEthernet0/6
switchport access vlan 216
switchport mode access
!
interface FastEthernet0/7
switchport access vlan 216
switchport mode access
!
interface FastEthernet0/8
switchport access vlan 216
switchport mode access
!
interface FastEthernet0/9
switchport access vlan 210
switchport mode access
switchport voice vlan 216
!
interface FastEthernet0/10
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
interface FastEthernet0/11
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
interface FastEthernet0/12
switchport access vlan 210
switchport mode access
switchport voice vlan 217
!
interface FastEthernet0/13
switchport trunk native vlan 218
switchport mode trunk
!
interface FastEthernet0/14
switchport access vlan 210
switchport mode access
!
```

```
interface FastEthernet0/15
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/16
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/17
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/18
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/19
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/20
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/21
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/22
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/23
switchport access vlan 210
switchport mode access
!
interface FastEthernet0/24
switchport access vlan 210
switchport mode access
!
interface GigabitEthernet0/1
switchport access vlan 210
switchport mode access
!
interface GigabitEthernet0/2
switchport access vlan 210
switchport mode access
!
interface Vlan1
no ip address
shutdown
!
interface Vlan219
description LAN
mac-address 00d0.bc08.4501
ip address 192.168.119.105 255.255.255.0
!
ip default-gateway 192.168.116.1
!
```

```
!
!
!
line con 0
password Polina
login
exec-timeout 60 0
!
line vty 0 4
login
line vty 5 15
login
!
!
!
!
end
```