

BRAS SoftWLC

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:

1. FreeRADIUS - .

FreeRADIUS , . users FreeRADIUS :

:

<MACADDR> Cleartext-Password := <MACADDR>

#

User-Name = <USER_NAME> ,

#

Session-Timeout = <SECONDS> ,

#

Idle-Timeout = <SECONDS> ,

#

Acct-Interim-Interval = <SECONDS> ,

(A - , N -)

Cisco-Account-Info = "{A|N}<SERVICE_NAME>"

:

<SERVICE_NAME> Cleartext-Password := <MACADDR>

class-map ESR

Cisco-AVPair = "subscriber:traffic-class=<CLASS_MAP>" ,

, ESR (permit, deny, redirect)

Cisco-AVPair = "subscriber:filter-default-action=<ACTION>" ,

IP (enabled-uplink, enabled-downlink, enabled, disabled)

Cisco-AVPair = "subscriber:flow-status=<STATUS>"

clients.conf , ESR:

client ESR {

ipaddr = <SUBNET>

secret = <RADIUS_KEY>

}

2. ESR - :

radius-server host <IP_ADDRESS>

key ascii-text <RADIUS_KEY>

exit

aaa radius-profile bras_radius

radius-server host <IP_ADDRESS>

exit

```
das-server das
key ascii-text <RADIUS_KEY>
exit
```

```
aaa das-profile bras_das
das-server das
exit
```

```
ip access-list extended user_acl
rule 1
action permit
enable
exit
exit
```

```
subscriber-control
aaa das-profile bras_das
aaa sessions-radius-profile bras_radius
nas-ip-address <IP_ADDRESS>
session mac-authentication
default-service default-action redirect <URL>
exit
enable
exit
```

, BRAS ()::

```
service-subscriber-control {object-group <NAME> | any}
location <L2LOCATION>
```

!!! URL , , http-proxy BRAS :

1. URL (URL, ,):

```
object-group url defaultserv
url http://eltex.nsk.ru
url http://ya.ru
url https://ya.ru
exit
```

2. URL BRAS:

```
subscriber-control
default-service
filter-name local defaultserv
filter-action permit
end
```

URL defaultserv , :

```
default-service
default-action redirect http://192.168.16.54:8080/eltex\_portal/
```

:

:

1. FreeRADIUS - :

10.10.0.0/16, FreeRADIUS 192.168.16.140/23. FreeRADIUS . «clients.conf» :

```
client BRAS {
ipaddr = 192.168.16.140
secret = password
}
```

«users» (<MAC> MAC);

```
"00-00-00-33-96-3D" Cleartext-Password := "00-00-00-33-96-3D"
User-Name = "Bras_user",
Session-Timeout = 259200,
Idle-Timeout = 259200,
Cisco-AVPair += "subscriber:policer-rate-in=1000",
Cisco-AVPair += "subscriber:policer-rate-out=1000",
Cisco-AVPair += "subscriber:policer-burst-in=188",
Cisco-AVPair += "subscriber:policer-burst-out=188",
Cisco-Account-Info = "AINTERNET"
```

```
INTERNET Cleartext-Password := "INTERNET"
User-Name = "INTERNET",
Cisco-AVPair = "subscriber:traffic-class=INTERNET",
Cisco-AVPair += "subscriber:filter-default-action=permit"
```

traffic-class access-list ESR. .

2. ESR:

configure

```
object-group url defaultserv
url http://eltex.nsk.ru
url http://ya.ru
url https://ya.ru
exit
```

```
radius-server host 192.168.16.54
key ascii-text encrypted 8CB5107EA7005AFF
source-address 192.168.16.140
exit
aaa radius-profile bras_radius
radius-server host 192.168.16.54
exit
aaa radius-profile bras_radius_servers
radius-server host 192.168.16.54
exit
das-server das
key ascii-text encrypted 8CB5107EA7005AFF
exit
aaa das-profile bras_das
das-server das
exit
```

```
vlan 10
exit
```

```
ip access-list extended BYPASS
rule 1
action permit
match protocol udp
match source-port 68
match destination-port 67
enable
exit
rule 2
action permit
match protocol udp
match destination-port 53
enable
exit
rule 3
exit
exit
```

```
ip access-list extended INTERNET
rule 1
action permit
enable
exit
exit
```

```
ip access-list extended WELCOME
rule 10
action permit
match protocol tcp
match destination-port 443
enable
exit
rule 20
action permit
match protocol tcp
match destination-port 8443
enable
exit
rule 30
action permit
match protocol tcp
match destination-port 80
enable
exit
rule 40
action permit
match protocol tcp
match destination-port 8080
enable
exit
exit
```

```
subscriber-control
aaa das-profile bras_das
aaa sessions-radius-profile bras_radius
aaa services-radius-profile bras_radius_servers
nas-ip-address 192.168.16.140
session mac-authentication
bypass-traffic-acl BYPASS
default-service
class-map BYPASS
filter-name local defaultserv
filter-action permit
default-action redirect http://192.168.16.54/eltex\_portal
session-timeout 121
exit
enable
exit
```

```

bridge 10
vlan 10
ip firewall disable
ip address 10.10.0.1/16
ip helper-address 192.168.16.54
service-subscriber-control any
location USER
protected-ports
protected-ports exclude vlan
enable
exit
interface gigabitethernet 1/0/2
ip firewall disable
ip address 192.168.16.140/23
exit
interface gigabitethernet 1/0/3.10
bridge-group 10
ip firewall disable
exit
interface gigabitethernet 1/0/4
ip firewall disable
ip address 30.30.30.2/24
exit
interface tengigabitethernet 1/0/1
ip firewall disable
exit
interface tengigabitethernet 1/0/1.10
bridge-group 10
exit
interface tengigabitethernet 1/0/1.20
ip firewall disable
ip address 20.20.20.1/24
exit
interface tengigabitethernet 1/0/1.30
bridge-group 10
exit
interface tengigabitethernet 1/0/1.40
bridge-group 10
exit

nat source
ruleset factory
to interface gigabitethernet 1/0/2
rule 10
description "replace 'source ip' by outgoing interface ip address"
match source-address any
action source-nat interface
enable
exit
exit

ip route 0.0.0.0/0 192.168.16.145

ip telnet server

```