# Report 2

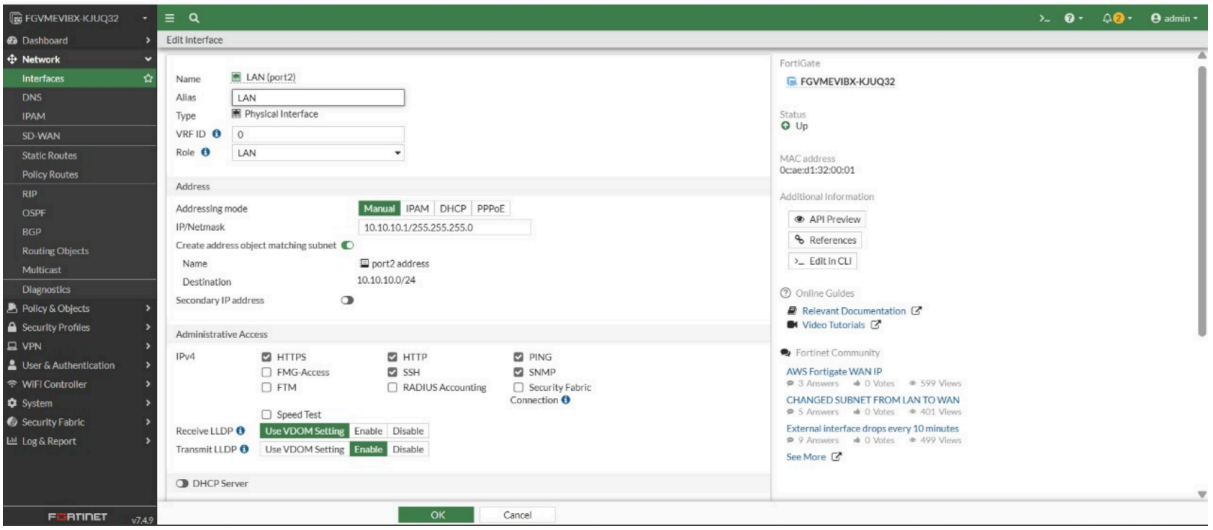
## Switch 3 (Core switch )

```
interface ethernet0/2
no switchport                          Make the interface Layer 3 (routing mode)
ip address 10.10.10.2 255.255.255.0    Assign IP address
no shutdown                            Enable the interface
int vlan10                             Create VLAN 10 SVI (Layer 3 interface)
ip address 192.168.10.1/24             Set gateway IP for VLAN 10
int vlan20                             Create VLAN 20 SVI
ip address 192.168.20.1/24             Set gateway IP for VLAN 20
ip route 0.0.0.0 0.0.0.0 10.10.10.1    Default route pointing to Fortigate
```

## Fortigate:

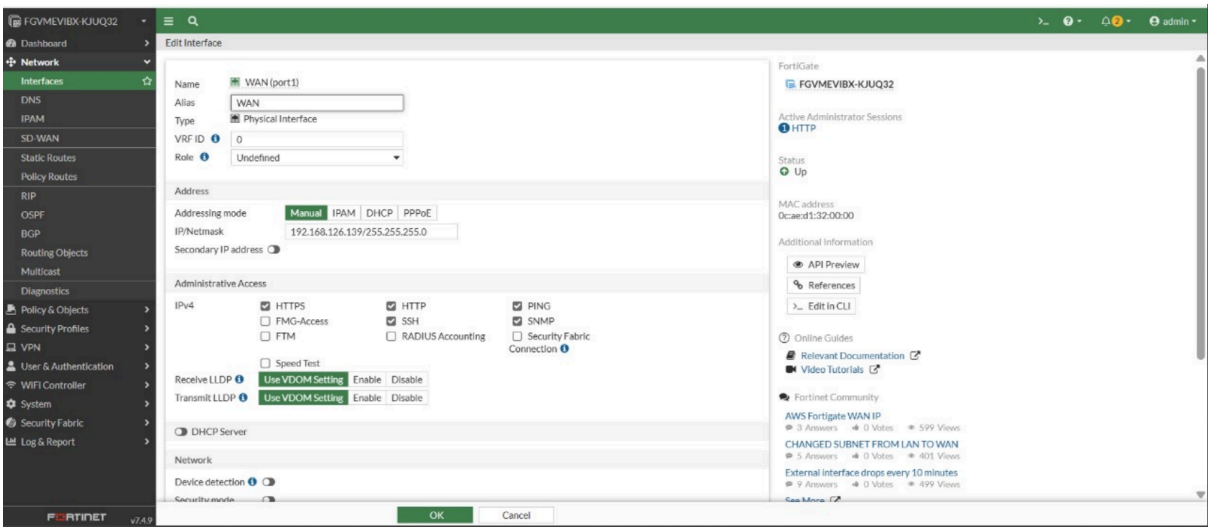
```
Login: admin                           Default login with no password
password:
new password: 123                      Set a new password

config system interface                Enter interface configuration mode
edit port1                             Select port1
set mode static 192.168.126.139        Assign static IP to port1
set allowaccess http https ping ssh    Allow management access on port1
end
config system interface                Enter interface configuration mode again
edit port2                             Select port2
set mode dhcp                          Receive IP from DHCP server
set allowaccess http https ping ssh    Allow management access on port2
end
```

**This interface is configured as a LAN port with some settings:**

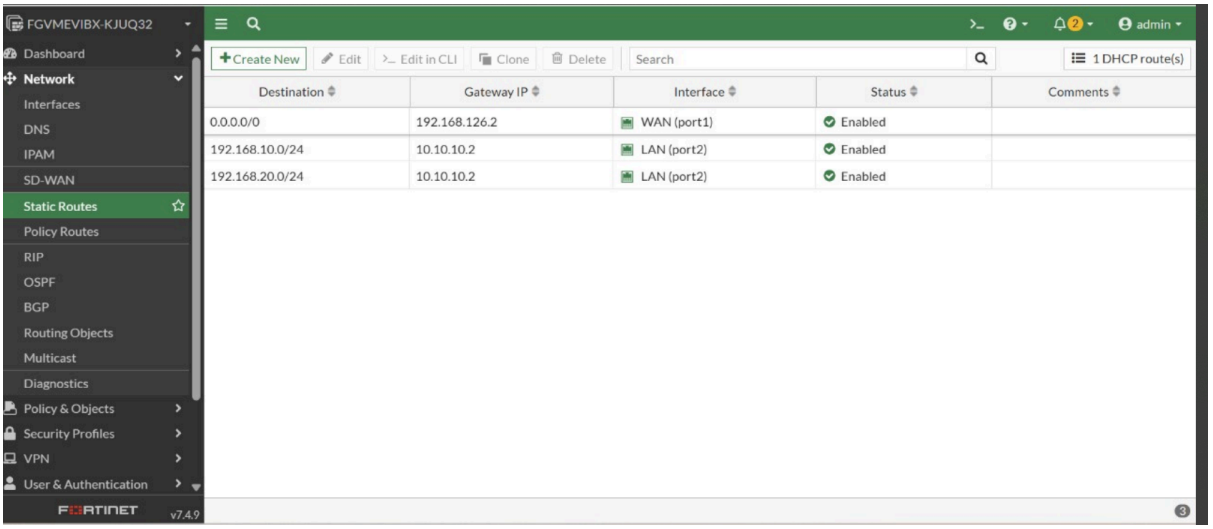



**Adderssing Mode**: Manual
**IP**: 10.10.10.1/24 #Gateway for devices in this network
**Role**: LAN #interface is used for internal network traffic
**Administrative access:** include http https ssh ping which enable management and troubleshooting from inside the network

**This interface is configured as a WAN port with some settings:**




**Adderssing Mode**: Manual
**IP:** 192.168.126.139/24 #Gateway for devices in this network
**Role:**WAN #interface is used for external network traffic(Internet)
**Administrative access:** include https ping usually limited for security



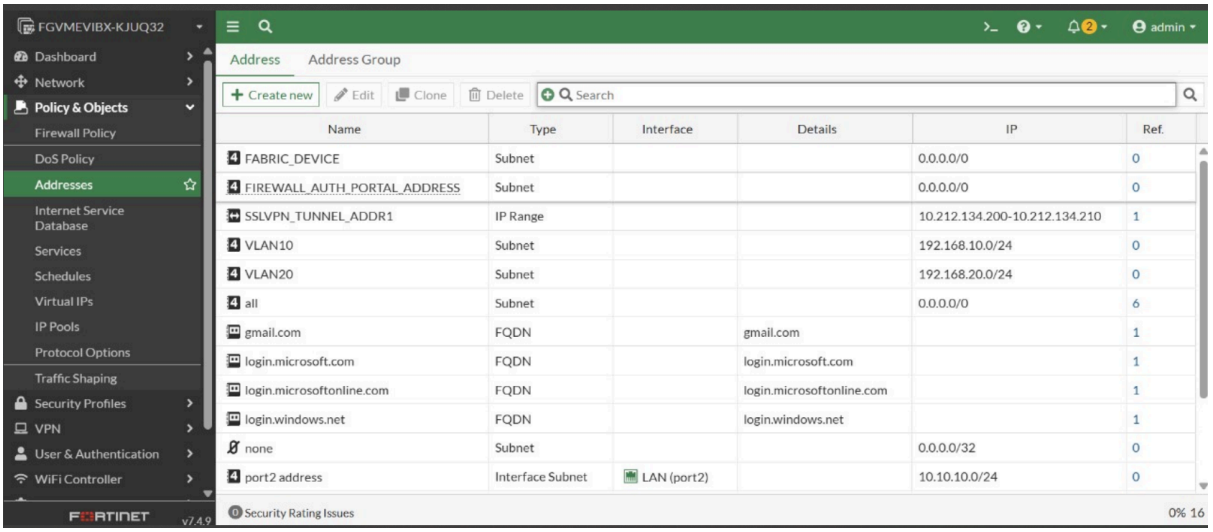

**The Fortigate's static routes:**

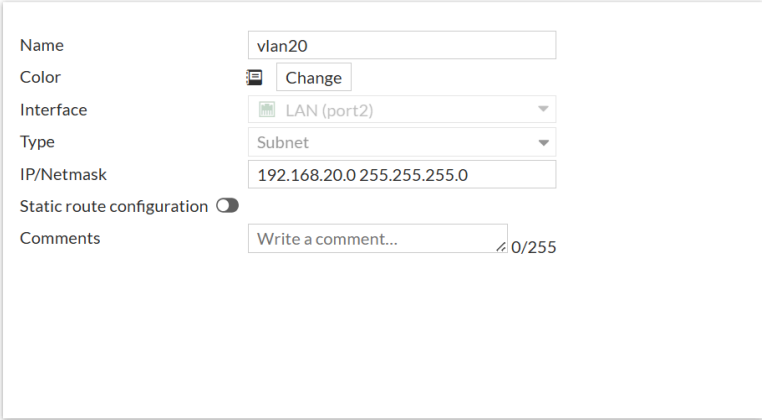
**1-default route (0.0.0.0/0)**
Gateway: 192.168.126.2
interface WAN (port1)
used for sending all unknown traffic to the internet.

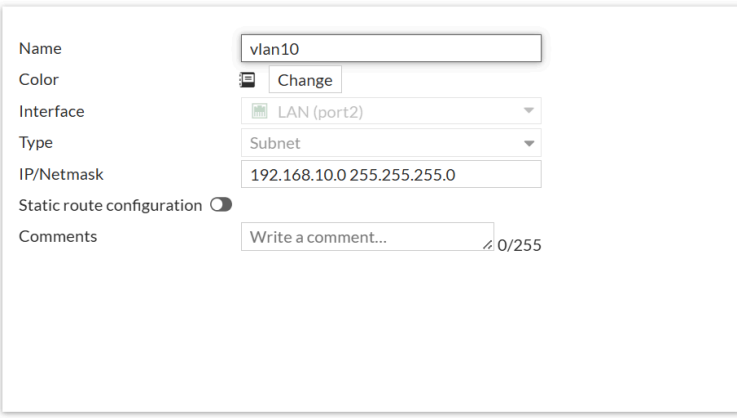
**2-Route to 192.168.10.0/24**
Gateway: 10.10.10.2
interface LAN (port2)
Directs traffic to the 192.168.10.x network through the internal router.

**3-Route to 192.168.20.0/24**
Gateway: 10.10.10.2
interface LAN (port2)
Sends traffic to the 192.168.20.x network through the internal router.

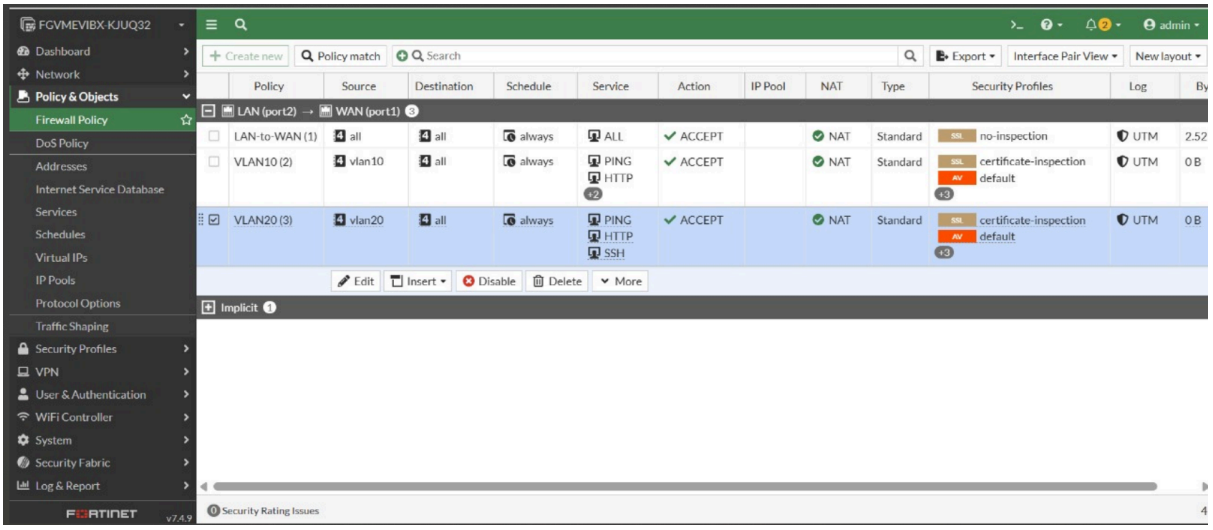
## Firewall Addresses:



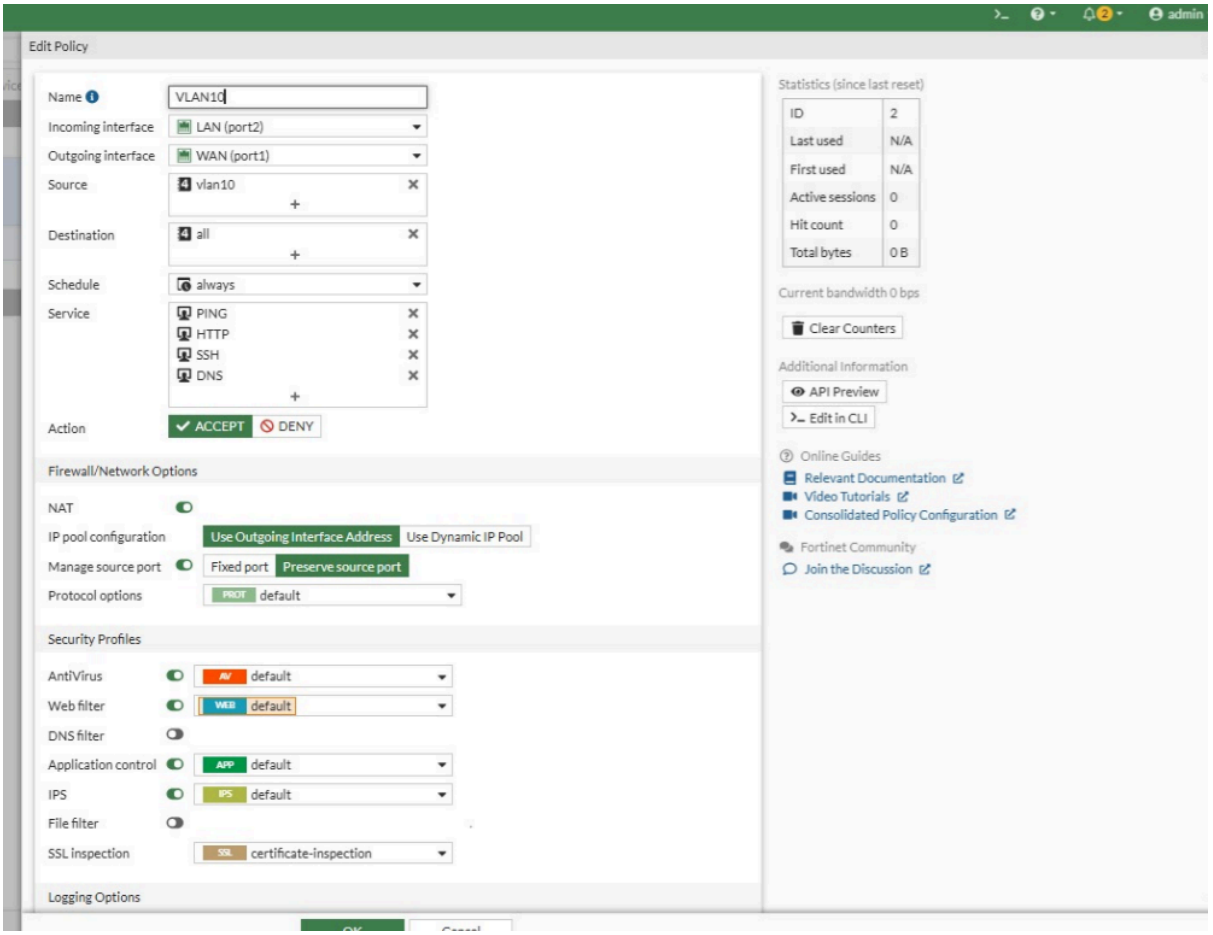




## The Firewall Policies:

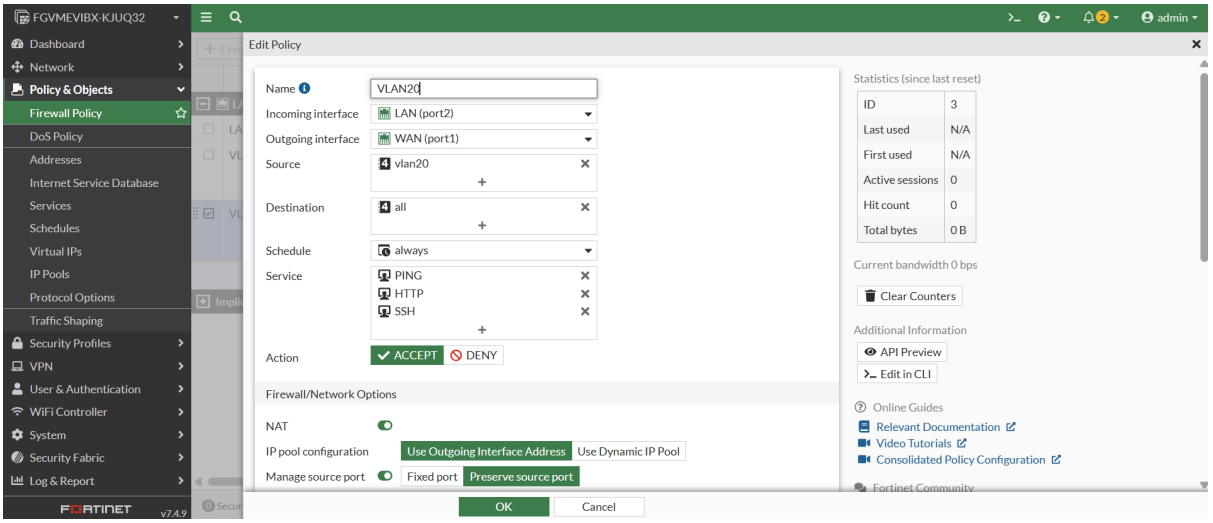


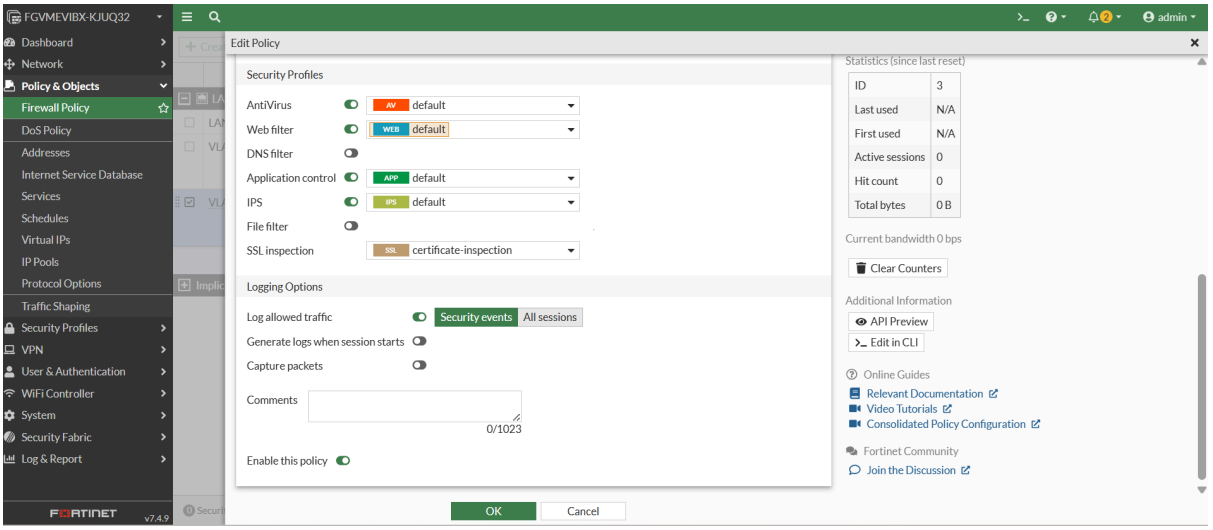

the firewall policies for LAN and VLANs, with allowed services, NAT enabled, and security profiles applied. The rules are organized to manage and secure traffic between the network and the WAN.

## VLAN 10 Policy



# VLAN20 Policy



# LAN-to-WAN policy