OSPF Project

- Router configuration example

```
int g0/0/1
    ip address 10.0.4.1 255.255.255.0
    no shut
int g0/0/0
    ip address 192.168.1.4 255.255.255.248
    no shut

router ospf 1
    network 192.168.1.0 0.0.0.7 area 0
    network 10.0.4.0 0.0.0.255 area 0
    passive-interface g0/0/1
    router-id 4.4.4.4
    auto-cost reference bandwidth 10000

hello timers will be default

Extended IP access list 101
    10 deny tcp any host 10.0.4.2 eq www
    20 deny ip 10.0.1.0 0.0.0.255 host 10.0.4.2
    30 deny ip 10.0.2.0 0.0.0.255 host 10.0.4.2
    40 permit ip any any


R3:
access-list 1 permit 10.0.2.0 0.0.0.255
ip nat pool NAT-B 192.168.2.1 192.168.2.254 netmask 255.255.255
ip nat inside source list 1 pool NAT-B overload
Results: show ip nat translations
```

```
Pro  Inside global      Inside local       Outside local      Out
icmp 192.168.2.1:10     10.0.2.5:10        10.0.3.5:10        10
icmp 192.168.2.1:11     10.0.2.5:11        10.0.3.5:11        10
icmp 192.168.2.1:12     10.0.2.5:12        10.0.3.5:12        10
icmp 192.168.2.1:9      10.0.2.5:9         10.0.3.5:9         10
```

LAN-A	Interface	IP	DGW
R1	G0/0/0	192.168.1.1/29	
	G0/0/1	10.0.1.1/24	
S1	G0/1	10.0.1.2/24	10.0.1.1
PC1-1		10.0.1.5	10.0.1.1
PC1-2		10.0.1.6	10.0.1.1

LAN-B	Interface	IP	DGW
R2	G0/0/0	192.168.1.2/29	
	G0/0/1	10.0.2.1/24	
S2	G0/1	10.0.2.2/24	10.0.2.2
PC2-1		10.0.2.5	10.0.2.2
Server-1		10.0.2.6	10.0.2.2
NAT to LAN-C	Range	192.168.2.1	192.168.2.254

LAN-C	Interface	IP	DGW
R3	G0/0/0	192.168.1.3/29	
	G0/0/1	10.0.3.1/24	
S3	G0/1	10.0.3.2/24	10.0.3.1
PC2-1		10.0.3.5	10.0.3.1
PC2-2		10.0.3.6	10.0.3.1

LAN-D	Interface	IP	DGW
R4	G0/0/0	192.168.4.1/29	
	G0/0/1	10.0.4.1/24	
Server-2	F0/1	10.0.4.2/24	10.0.4.1