

# Dossier 1 : Réseaux informatiques

1)

<b>de hote</b>	<b>@ Sous reseau</b>	<b>Masque de Reseau</b>
<b>Site SUD-MARKTING</b>	<b>192.168.10.0</b>	<b>255 .255.255.224</b>
<b>Site SUD- VENTES</b>	<b>192.168.10.32</b>	<b>255 .255.255.224</b>
<b>Site Tanger</b>	<b>192.168.10.64</b>	<b>255 .255.255.224</b>
<b>Site Larache- Production</b>	<b>192.168.10.96</b>	<b>255 .255.255.224</b>
<b>Site Larache- Administration</b>	<b>192.168.10.128</b>	<b>255 .255.255.240</b>
<b>Liason NORD- Tanger</b>	<b>192.168.10.144</b>	<b>255 .255.255.252</b>
<b>LiasonNORD – Larache</b>	<b>192.168.10.148</b>	<b>255 .255.255.252</b>
<b>Liason Tanger – Larache</b>	<b>192.168.10.152</b>	<b>255 .255.255.252</b>
<b>Liason NORD - SUD</b>	<b>192.168.10.156</b>	<b>255 .255.255.252</b>

2)

<b>HOTE</b>	<b>INTERFACE</b>	<b>CONFIGURATION IP (@IP/MASQUE )</b>
<i>Routeur SUD</i>	<b>F0/0.20</b>	<b>192.168.10.1/27</b>
	<b>F0/0.30</b>	<b>192.168.10.33/27</b>
	<b>S2/0</b>	<b>192.168.10.158/30</b>
<i>Routeur NORD</i>	<b>S2/0</b>	<b>192.168.10.145/30</b>
	<b>S3/0</b>	<b>192.168.10.149/30</b>
	<b>S6/0</b>	<b>192.168.10.157/30</b>
	<b>S7/0</b>	<b>212.217.0.1/30</b>
<i>Routeur Larache</i>	<b>F0/0</b>	<b>192.168.10.129/28</b>
	<b>F1/0</b>	<b>192.168.10.97/27</b>
	<b>S2/0</b>	<b>192.168.10.150/30</b>
	<b>S3/0</b>	<b>192.168.10.154/30</b>
<i>Routeur Tanger</i>	<b>F0/0</b>	<b>192.168.10.65/27</b>
	<b>S2/0</b>	<b>192.168.10.153/30</b>
	<b>S3/0</b>	<b>192.168.10.146/30</b>
<b>PC0</b>	<b>FastEthernet</b>	<b>192.168.10.130/28</b>
	<b>Passerlle</b>	<b>192.168.10.129</b>
<b>PC1</b>	<b>FastEthernet</b>	<b>192.168.10.131/28</b>

	<i>Passerlle</i>	<i>192.168.10.129</i>
<i>PC2</i>	<i>FastEthernet</i>	<i>192.168.10.98/27</i>
	<i>Passerlle</i>	<i>192.168.10.97</i>
<i>PC3</i>	<i>FastEthernet</i>	<i>192.168.10.99/27</i>
	<i>Passerlle</i>	<i>192.168.10.97</i>
<i>PC4</i>	<i>FastEthernet</i>	<i>192.168.10.66/27</i>
	<i>Passerlle</i>	<i>192.168.10.65</i>
<i>PC5</i>	<i>FastEthernet</i>	<i>192.168.10.67/27</i>
	<i>Passerlle</i>	<i>192.168.10.65</i>
<i>PC6</i>	<i>FastEthernet</i>	<i>192.168.10.2/27</i>
	<i>Passerlle</i>	<i>192.168.10.1</i>
<i>PC7</i>	<i>FastEthernet</i>	<i>192.168.10.3/27</i>
	<i>Passerlle</i>	<i>192.168.10.1</i>
<i>PC8</i>	<i>FastEthernet</i>	<i>192.168.10.34/27</i>
	<i>Passerlle</i>	<i>192.168.10.33</i>
<i>PC9</i>	<i>FastEthernet</i>	<i>192.168.10.35/27</i>
	<i>Passerlle</i>	<i>192.168.10.33</i>
<i>SERVER WEB</i>	<i>FastEthernet</i>	<i>192.168.10.132</i>
	<i>Passerlle</i>	<i>192.168.10.129</i>

## Partie II :COMMUTATION

**4)**

***SMarketing(config)#interface FastEthernet1/1***

***SMarketing(config-if)#switchport mode trunk***

***SVentes(config)#interface FastEthernet1/1***

***SVentes(config-if)#switchport mode trunk***

**5)**

***SMarketing#vlandatabase***

***SMarketing(vlan)#vtp client***

***SMarketing(vlan)#vtpdomain var11***

***Changing VTP domainnamefrom NULL to var11***

***SVentes#vlandatabase***

***SVentes(vlan)#vtp server***

***SVentes(vlan)#vtpdomain var11***

***Changing VTP domainnamefrom NULL to var11***

**6)**

***SVentes(vlan)#vlan 20 name VENTES***

***VLAN 20 added:***

***Name: VENTES***

***SVentes(vlan)#vlan 30 name MARKETING***

***VLAN 30 added:***

**Name: MARKETING**

**7)**

**SVentes(config)#interface FastEthernet3/1**

**SVentes(config-if)#switchport mode access**

**SVentes(config-if)#switchportaccess vlan 20**

**SVentes(config)#interface FastEthernet2/1**

**SVentes(config-if)#switchport mode access**

**SVentes(config-if)#switchportaccess vlan 20**

**SMarketing(config)#interface FastEthernet2/1**

**SMarketing(config-if)#switchport mode access**

**SMarketing(config-if)#switchportaccess vlan 30**

**SMarketing(config-if)#exit**

**SMarketing(config)#interface FastEthernet3/1**

**SMarketing(config-if)#switchport mode access**

**SMarketing(config-if)#switchportaccess vlan 30**

**8)**

**SUD(config)#interface FastEthernet0/0**

**SUD(config-if)#EX**

**SUD(config)#interface FastEthernet0/0.20**

**SUD(config-subif)#Encapsulation Dot1Q 20**

**SUD(config-subif)#IP ADdress 192.168.10.1 255.255.255.224**

**SUD(config-subif)#EX**

**SUD(config)#interface FastEthernet0/0.30**

**SUD(config-subif)#ENcapsulation Dot1Q 30**

**SUD(config-subif)#IP ADdress 192.168.10.33 255.255.255.224**

**SUD(config-subif)#EX**

**9) SVentes(config)#spanning-tree vlan 1 priority 4096**

### **PARTIE III :ROUTAGE**

**10)NORd(config)#hostname NORD**

**NORD(config)#ENablePassword 12345**

**NORD(config)#LIneVty 04**

**NORD(config-line)#PASsword 12345**

**NORD(config-line)#LOGIN**

**NORD(config-line)#EXIT**

**NORD(config)#LIneCOnsole 0**

**NORD(config-line)#PASSword 12345**

**NORD(config-line)#LOGIN**

**NORD(config-line)#EXIT**

**NORD(config)#BANnerMotd # Authorizedaccessonly I #**

**NORD(config)#loggingsynchronous**

**11)**

**NORD(config)#ip route 192.168.10.96 255.255.255.224  
192.168.10.150**

**NORD(config)#ip route 192.168.10.128 255.255.255.240  
192.168.10.150**

**NORD(config)#ip route 192.168.10.64 255.255.255.224  
192.168.10.146**

**NORD(config)#ip route 192.168.10.152 255.255.255.252  
192.168.10.146**

**NORD(config)#ip route 192.168.10.0 255.255.255.224  
192.168.10.158**

**NORD(config)#ip route 192.168.10.32 255.255.255.224  
192.168.10.158**

**Tanger(config)#ip route 192.168.10.0 255.255.255.224  
192.168.10.145**

**Tanger(config)#ip route 192.168.10.32 255.255.255.224  
192.168.10.145**

**Tanger(config)#ip route 192.168.10.148 255.255.255.252  
192.168.10.145**

**Tanger(config)#ip route 192.168.10.156 255.255.255.252  
192.168.10.145**

**Tanger(config)#ip route 212.217.0.0 255.255.255.252  
192.168.10.145**

**Tanger(config)#ip route 192.168.10.96 255.255.255.224  
192.168.10.154**

**Tanger(config)#ip route 192.168.10.128 255.255.255.240  
192.168.10.154**

**SUD(config)#ip route 192.168.10.96 255.255.255.224  
192.168.10.157**

**SUD(config)#ip route 192.168.10.64 255.255.255.224  
192.168.10.157**

**SUD(config)#ip route 192.168.10.128 255.255.255.240  
192.168.10.157**

**SUD(config)#ip route 192.168.10.148 255.255.255.252  
192.168.10.157**

**SUD(config)#ip route 192.168.10.144 255.255.255.252  
192.168.10.157**

**SUD(config)#ip route 192.168.10.152 255.255.255.252  
192.168.10.157**

**SUD(config)#ip route 212.217.0.0 255.255.255.252 192.168.10.157**

**Larache(config)#ip route 192.168.10.0 255.255.255.224  
192.168.10.149**

**Larache(config)#ip route 192.168.10.32 255.255.255.224  
192.168.10.149**

**Larache(config)#ip route 192.168.10.156 255.255.255.252  
192.168.10.149**

**Larache(config)#ip route 192.168.10.144 255.255.255.252  
192.168.10.149**

**Larache(config)#ip route 212.217.0.0 255.255.255.252  
192.168.10.149**

**Larache(config)#ip route 192.168.10.64 255.255.255.252  
192.168.10.153**



**FAI(config)#ip route 192.168.10.0 255.255.255.224 212.217.0.1**  
**FAI(config)#ip route 192.168.10.32 255.255.255.224 212.217.0.1**  
**FAI(config)#ip route 192.168.10.64 255.255.255.224 212.217.0.1**  
**FAI(config)#ip route 192.168.10.96 255.255.255.224 212.217.0.1**  
**FAI(config)#ip route 192.168.10.128 255.255.255.240 212.217.0.1**  
**FAI(config)#ip route 192.168.10.144 255.255.255.252 212.217.0.1**  
**FAI(config)#ip route 192.168.10.148 255.255.255.252 212.217.0.1**  
**FAI(config)#ip route 192.168.10.152 255.255.255.252 212.217.0.1**  
**FAI(config)#ip route 192.168.10.156 255.255.255.252 212.217.0.1**

**12)**

**Tanger(config)#IP ROute 0.0.0.0 0.0.0.0 192.168.10.145**  
**SUD(config)#IP Route 0.0.0.0 0.0.0.0 192.168.10.157**  
**Larache(config)#IP ROute 0.0.0.0 0.0.0.0 192.168.10.149**  
**NORD(config)#IP Route 0.0.0.0 0.0.0.0 212.217.0.2**

**13)**

**NORD#TRaceroute 192.168.10.158**

**Type escape sequence to abort.**

**Tracing the route to 192.168.10.158**

**1 192.168.10.158 20 msec 20 msec 20 msec**

**SUD#TRaceroute 192.168.10.157**

**Type escape sequence to abort.**

**Tracing the route to 192.168.10.157**

**1 192.168.10.157 20 msec 20 msec 20 msec**

14)

***NORD(config)#ACCess-list 1 Permit 192.168.1.0 0.0.0.31***

***NORD(config)#ACCess-list 1 Permit 192.168.1.32 0.0.0.31***

***NORD(config)#ACCess-list 1 Permit 192.168.1.64 0.0.0.31***

***NORD(config)#ACCess-list 1 Permit 192.168.1.96 0.0.0.31***

***NORD(config)#ACCess-list 1 Permit 192.168.1.128 0.0.0.15***

***NORD(config)#IP NAT INSide Source List 1 INterface Serial 7/0  
Overload***

***NORD(config)#interface Serial7/0***

***NORD(config-if)#IP NAtOUtside***

***NORD(config-if)#EX***

***NORD(config)#interface Serial2/0***

***NORD(config-if)#IP NAt Inside***

***NORD(config-if)#EX***

***NORD(config)#interface Serial3/0***

***NORD(config-if)#IP NAt Inside***

***NORD(config-if)#EX***

***NORD(config)#interface Serial6/0***

***NORD(config-if)#IP NAt Inside***

***NORD(config-if)#EX***

## **PARTIE IV : ACL**

**16)**

**SUD(config)#ACcess-list 101 DenyICmp 192.168.10.0 0.0.0.31 HOST  
192.168.10.132**

**SUD(config)#ACcess-list 101 DenyICmp 192.168.10.32 0.0.0.31 HOST  
192.168.10.132**

**SUD(config)#ACcess-list 101 PErmit IP ANyAny**

**SUD(config)#INT F 0/0**

**SUD(config-if)#IP ACcess-group 101 IN**

**SUD(config-if)#EX**

**17)**

**Larache(config)#ACCess-list 1 Deny 192.168.10.96 0.0.0.31**

**Larache(config)#LINEVty 04**

**Larache(config-line)#Access-class 1 IN**

**Larache(config-line)#EXIT**

**Larache(config)#Line Console 0**

**Larache(config-line)#Access-class 1 IN**

**Larache(config-line)#EXIT**

**18)**

## Dossier 2 : Scripting et Administration linux

1 ))))

```
ifconfig eth0 192.168.1.1 netmask 255.255.255.0
```

```
rpm -d bind-9.7.0-9.P1.fc13.i686.rpm
```

*installation de paquetge DNS*

```
rpm -ivh bind-9.7.0-9.P1.fc13.i686.rpm
```

```
rpm -ivh bind-chroot-9.7.0-9.P1.fc13.i686.rpm
```

2)))))

```
cd /etc
```

```
nanonamed.conf
```

*le fichier de configuration principal*

---

```
options {
```

```
    listen-on port 53 { 192.168.1.1; };
```

```
    listen-on-v6 port 53 { ::1; };
```

```
directory    "/var/named";
```

```
dump-file    "/var/named/data/cache_dump.db";
```

[www.ofppt.info](http://www.ofppt.info)

```
statistics-file "/var/named/data/named_stats.txt";
memstatistics-file "/var/named/data/named_mem_stats.txt";
allow-query{ localhost; 192.168.1.1/24; };
recursionyes;
};
logging {
    channeldefault_debug {
file "data/named.run";
severitydynamic;
    };
};
zone "ABTechnologie.ma" IN {
type master;
file "ABTechnologie.ma.direct";
};
zone "1.168.192.in-addr" IN {
type maser;
file "ABTechnologie.ma.inverse";
};
include "/etc/named.rfc1912.zones";
```

---

3))))

```
[root@localhost ~]# cd /var/named/
```

```
[root@localhostnamed]# nanoABTechnologie.ma.direct
```

le fichier de configuration de zone direct

GNU nano 2.2.4

Fichier : ABTechnologie.ma.direct

[www.ofppt.info](http://www.ofppt.info)

---

**\$TTL 1D**

**@ IN SOA SERVA.ABTechnologie.ma. root.ABTechnologie.ma. (**

**0 ; serial**

**1D ; refresh**

**1H ; retry**

**1W ; expire**

**3H ) ; minimum**

**IN NS SERVA.ABTechnologie.ma.**

**SERVA IN A 192.168.1.1**

**PC02 IN A 192.168.1.2**

**PC03 IN A 192.168.1.3**

---

**4))))**

**[root@localhostnamed]# cd /var/named/**

**[root@localhostnamed]# nanoABTechnologie.ma.inverse**

**le fichier de configuration de zone direct**

**GNU nano 2.2.4**

**Fichier : ABTechnologie.ma.inverse**

---

**\$TTL 1D**

**@ IN SOA SERVA.ABTechnologie.ma. root.ABTechnologie.ma. (**

**0 ; serial**

**1D ; refresh**

[www.ofppt.info](http://www.ofppt.info)

**1H ; retry**

**1W ; expire**

**3H ) ; minimum**

**IN NS @**

**1 IN PTR SERVA.ABTechnologie.ma.**

**2 IN PTR PC02.ABTechnologie.ma.**

**3 IN PTR PC03.ABTechnologie.ma.**

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**5))))**

**[root@localhostnamed]# servicenamed restart**

**6))))**

**[root@localhostnamed]# nslookup**

**> www.ABTechnologie.ma**

**> SERVA.ABTechnologie.ma**

**> PC02.ABTechnologie.ma**