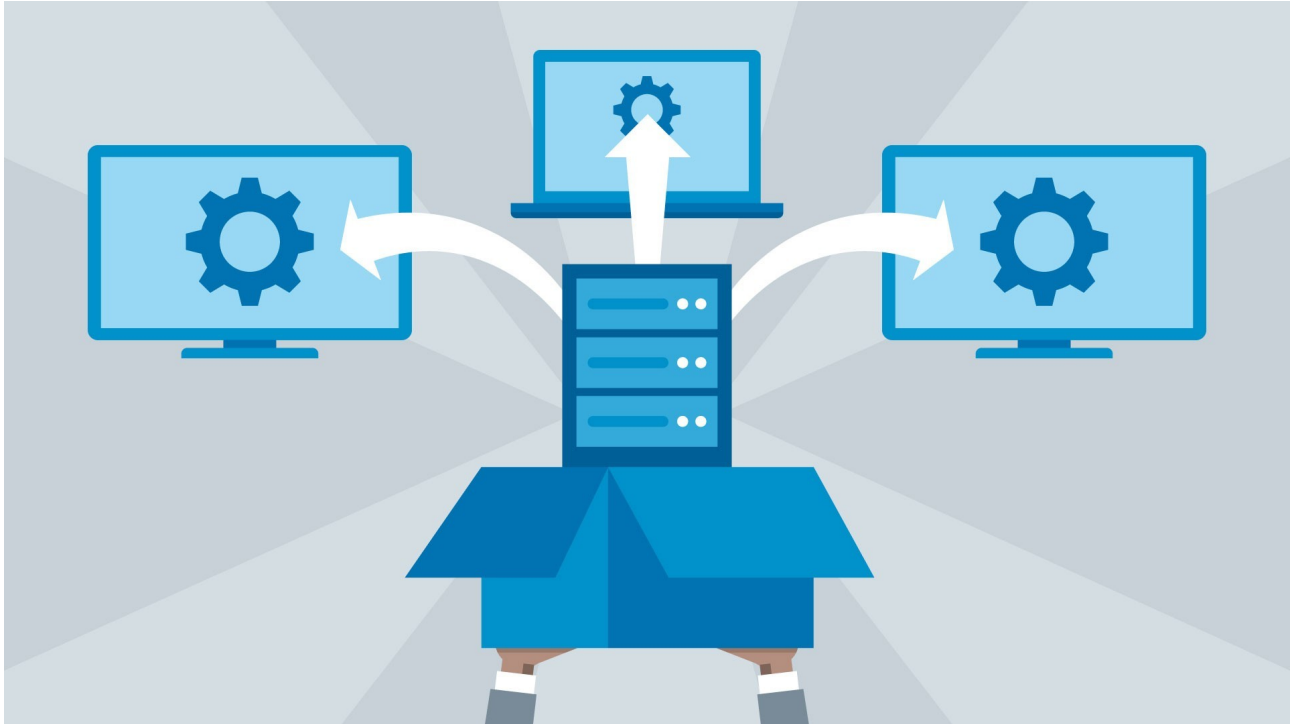


DESPLIEGUE DE APLICACIONES WEB



UNIDAD 1 – SERVICIOS DE RED IMPLICADOS EN EL DESPLIEGUE DE UNA APLICACIÓN

ACTIVIDAD 1

Hecha por:

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cat del fichero de configuración de red de “S1-Alias”

```
jgonzalez@s1:/etc/bind$ cat /etc/netplan/00-installer-config.yaml
# This is the network config written by 'subiquity'
network:
  ethernets:
    enp0s3:
      dhcp4: true
    enp0s8:
      addresses: [172.16.6.1/24]
      nameservers:
        search: [alumno-6.ca]
        addresses: [172.16.6.1]
  version: 2
jgonzalez@s1:/etc/bind$
```

cat del fichero de configuración de red de “S2-Alias”

```
jgonzalez@s2-jgonzalez:~$ cat /etc/netplan/00-installer-config.yaml
# This is the network config written by 'subiquity'
network:
  ethernets:
    enp0s3:
      dhcp4: true
    enp0s8:
      dhcp4: true
  version: 2
jgonzalez@s2-jgonzalez:~$
```

Consulta, por línea de comando, la configuración de red de la interfaz 2 de “S1-Alias” IP, puerta de enlace y DNS

IP:

```
jgonzalez@s1:/etc/bind$ ip -c a show enp0s8
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:43:26:10 brd ff:ff:ff:ff:ff:ff
    inet 172.16.6.1/24 brd 172.16.6.255 scope global enp0s8
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fe43:2610/64 scope link
        valid_lft forever preferred_lft forever
jgonzalez@s1:/etc/bind$
```

Puerta de enlace:

```
jgonzalez@s1:/etc/bind$ ip route list | grep enp0s8
172.16.6.0/24 dev enp0s8 proto kernel scope link src 172.16.6.1
jgonzalez@s1:/etc/bind$ _
```

DNS:

```
jgonzalez@s1:/etc/bind$ resolvectl status enp0s8
Link 3 (enp0s8)
  Current Scopes: DNS
    Protocols: +DefaultRoute +LLMNR -mDNS -DNSOverTLS DNSSEC=no/unsupported
Current DNS Server: 172.16.6.1
  DNS Servers: 172.16.6.1
  DNS Domain: alumno-6.ca
jgonzalez@s1:/etc/bind$ _
```

Consulta, por línea de comando, la configuración de red de la interfaz 2 de “S2-Alias” IP, puerta de enlace y DNS

IP:

```
jgonzalez@s2-jgonzalez:~$ ip -c a show enp0s8
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:4a:f8:2b brd ff:ff:ff:ff:ff:ff
    inet 172.16.6.2/24 metric 100 brd 172.16.6.255 scope global dynamic enp0s8
        valid_lft 3045sec preferred_lft 3045sec
    inet6 fe80::a00:27ff:fe4a:f82b/64 scope link
        valid_lft forever preferred_lft forever
jgonzalez@s2-jgonzalez:~$
```

Puerta de enlace:

```
jgonzalez@s2-jgonzalez:~$ ip route list | grep enp0s8
default via 172.16.6.1 dev enp0s8
default via 172.16.6.1 dev enp0s8 proto dhcp src 172.16.6.2 metric 100
172.16.6.0/24 dev enp0s8 proto kernel scope link src 172.16.6.2 metric 100
172.16.6.1 dev enp0s8 proto dhcp scope link src 172.16.6.2 metric 100
jgonzalez@s2-jgonzalez:~$ _
```

DNS:

```
jgonzalez@s2-jgonzalez:~$ resolvectl status enp0s8
Link 3 (enp0s8)
  Current Scopes: DNS
    Protocols: +DefaultRoute +LLMNR -mDNS -DNSOverTLS DNSSEC=no/unsupported
Current DNS Server: 172.16.6.1
  DNS Servers: 172.16.6.1
  DNS Domain: alumno-6.ca
jgonzalez@s2-jgonzalez:~$
```

cat de los ficheros de configuración del servicio de DHCP

```
jgonzalez@s1:/etc/bind$ cat /etc/dhcp/dhcpd.conf
subnet 172.16.6.0 netmask 255.255.255.0 {
    range 172.16.6.100 172.16.6.150;
    option domain-name-servers 172.16.6.1;
    option domain-name "alumno-6.ca";
    option subnet-mask 255.255.255.0;
    option routers 172.16.6.1;
    option broadcast-address 172.16.6.255;
    default-lease-time 900;
    max-lease-time 1800;
}

host s2 {
    hardware ethernet 08:00:27:4a:f8:2b;
    fixed-address 172.16.6.2;
    option routers 172.16.6.1;
    option domain-name-servers 172.16.6.1;
    option domain-name "alumno-6.ca";
    default-lease-time 3600;
    max-lease-time 10800;
}

host cliente1 {
    hardware ethernet 08:00:27:40:cf:77;
    fixed-address 172.16.6.10;
    option routers 172.16.6.1;
    option domain-name-servers 172.16.6.1;
    default-lease-time 3600;
    max-lease-time 10800;
}
jgonzalez@s1:/etc/bind$
```

Consulta, por línea de comando, la configuración de red de la interfaz 1 de “Client1- Alias” IP, puerta de enlace y DNS

IP:

```
jgonzalez@client1-VirtualBox: ~
jgonzalez@client1-VirtualBox:~$ ip -c a show enp0s3
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:24:79:2c brd ff:ff:ff:ff:ff:ff
    inet 172.16.6.101/24 brd 172.16.6.255 scope global dynamic noprefixroute enp0s3
        valid_lft 838sec preferred_lft 838sec
    inet6 fe80::9041:f7a2:abea:c93f/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
jgonzalez@client1-VirtualBox:~$
```

Puerta de enlace:

```
jgonzalez@client1-VirtualBox: ~
jgonzalez@client1-VirtualBox:~$ ip route list | grep enp0s3
default via 172.16.6.1 dev enp0s3 proto dhcp metric 20100
169.254.0.0/16 dev enp0s3 scope link metric 1000
172.16.6.0/24 dev enp0s3 proto kernel scope link src 172.16.6.101 metric 100
jgonzalez@client1-VirtualBox:~$
```

DNS:

```
jgonzalez@client1-VirtualBox: ~
jgonzalez@client1-VirtualBox:~$ resolvectl status enp0s3
Link 2 (enp0s3)
  Current Scopes: DNS
    Protocols: +DefaultRoute +LLMNR -mDNS -DNSOverTLS DNSSEC=no/unsupported
Current DNS Server: 172.16.6.1
  DNS Servers: 172.16.6.1
  DNS Domain: alumno-6.ca
jgonzalez@client1-VirtualBox:~$
```

Consulta, por línea de comando, la configuración de red de la interfaz 2 de “Client1- Alias”:
Sólo IP

```
jgonzalez@client1-VirtualBox: ~
jgonzalez@client1-VirtualBox:~$ ip -c a show enp0s8
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:40:cf:77 brd ff:ff:ff:ff:ff:ff
    inet 172.16.6.10/24 brd 172.16.6.255 scope global dynamic noprefixroute enp0s8
        valid_lft 3061sec preferred_lft 3061sec
    inet6 fe80::31b9:79b:8dc:2c7b/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
jgonzalez@client1-VirtualBox:~$
```

cat del fichero de zonas de S1-Alias

```
jgonzalez@s1:/etc/bind$ cat /etc/bind/named.conf.local
//
// Do any local configuration here
//
// Consider adding the 1918 zones here, if they are not used in your
// organization
//include "/etc/bind/zones.rfc1918";

zone "alumno-6.ca" {
    type master;
    notify yes;
    allow-transfer { 172.16.6.2 };
    file "/etc/bind/db.alumno-6.ca";
};

zone "6.16.172.in-addr.arpa" {
    type master;
    notify yes;
    allow-transfer { 172.16.6.2 };
    file "/etc/bind/db.alumno-6.ca.rev";
};
jgonzalez@s1:/etc/bind$ _
```

cat del fichero de zonas de S2-Alias

```
jgonzalez@s2-jgonzalez:~$ sudo cat /etc/bind/named.conf.local
//
// Do any local configuration here
//

// Consider adding the 1918 zones here, if they are not used in your
// organization
//include "/etc/bind/zones.rfc1918";

zone "alumno-6.ca" {
    type slave;
    file "db.alumno-6.ca";
};

zone "6.16.172.in-addr.arpa" {
    type slave;
    file "db.alumno-6.ca.rev";
};
jgonzalez@s2-jgonzalez:~$
```