4. Web Server Administration

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Web Application Deployment

2nd C-VET Web Application Development

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COMBINED PRACTICE DNS and APACHE2

We have been asked to manage two websites, www.daw.iesjc and www.dam.iesjc. The pages will be hosted on separate virtual servers in Apache2. The server has the IP 192.168.18.254.

You must:

1. Configure a DNS service to handle the websites, defining the necessary zones in a Bind9 server and its database files with the information of names and IPs.

2. Configure the two virtual servers in Apache2.

3. Test the functionality of the setup by accessing the websites through their URLs.

Insert screenshots that prove the funcionality. Also upload all configuration files zipped.

Create zones

```
zone "daw.iesjc" {
        type master;
        file "/etc/bind/db.daw.iesjc";
        allow-transfer { 192.168.18.253; };
        also-notify{ 192.168.18.253; };
};

zone "dam.iesjc" {
        type master;
        file "/etc/bind/db.dam.iesjc";
        allow-transfer { 192.168.18.253; };
        also-notify{ 192.168.18.253; };
};
```

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Create data base zones

File →db.daw.iesjc:

```
  GNU nano 6.2                                          db.daw.iesjc *
;
; BIND data file for local loopback interface
;
$TTL    604800
@       IN      SOA     localhost. root.localhost. (
                              2         ; Serial
                         604800         ; Refresh
                          86400         ; Retry
                        2419200         ; Expire
                         604800 )       ; Negative Cache TTL
;
@       IN      NS      daw.iesjc.
@       IN      A       192.168.18.250
www     IN      A       192.168.18.250
```

File →db.dam.iesjc:

```
  GNU nano 6.2                                          db.dam.iesjc
;
; BIND data file for local loopback interface
;
$TTL    604800
@       IN      SOA     localhost. root.localhost. (
                              2         ; Serial
                         604800         ; Refresh
                          86400         ; Retry
                        2419200         ; Expire
                         604800 )       ; Negative Cache TTL
;
@       IN      NS      dam.iesjc.
@       IN      A       192.168.18.249
www     IN      A       192.168.18.249
```

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Create configuration files

```
  GNU nano 6.2                                        iesjc.conf
<VirtualHost *:80>
    ServerName www.daw.iesjc
    DocumentRoot /var/www/daw
</VirtualHost>

<VirtualHost *:80>
    ServerName www.dam.iesjc
    DocumentRoot /var/www/dam
</VirtualHost>
```

Create index.html

```
  GNU nano 6.2                              /var/www/daw/index.html *
<h1>Site the DAW</h1>
```

```
  GNU nano 6.2                              /var/www/dam/index.html *
<h1>Site the DAM</h1>
```

Enable settings:

```
root@server:/etc/apache2/sites-available# a2ensite iesjc.conf
Enabling site iesjc.
To activate the new configuration, you need to run:
  systemctl reload apache2
root@server:/etc/apache2/sites-available# systemctl reload apache2
root@server:/etc/apache2/sites-available#
```

Comprobate status of site

Q http://www.**dam.iesjc**

Site the DAM

Q http://www.**daw.iesjc**

Site the DAW