



Placement Empowerment Program

Cloud Computing and DevOps Centre

Implement DNS for Your Application: Set up a DNS record to map your web application's IP or load balancer to a domain name.

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Task: Implement DNS for a Web App – Map Web App IP or Load Balancer to a Domain Name

Description:

In this task, we will configure **DNS for a web application** hosted in Azure. The process includes:

- 1. **Setting up an Azure DNS Zone** to manage domain records.
- 2. **Creating an A record** to map the web app's public IP or Load Balancer IP to a domain name.
- 3. Configuring a CNAME record (if needed) for custom domain mapping.
- 4. Verifying DNS resolution using domain lookup tools.

This setup ensures that users can access the web app using a friendly **domain name** instead of an IP address.

Step-by-Step Implementation

Step 1: Create an Azure DNS Zone

- 1. Go to Azure Portal → DNS Zones → Click Create.
- 2. Configure:
 - o **Subscription**: Select your Azure subscription.
 - **Resource Group**: Select an existing group or create a new one.
 - o **DNS Zone Name**: Enter your domain name (e.g., mywebapp.com).
- 3. Click Review + Create → Create.

Step 2: Create an A Record to Map the Web App or Load Balancer IP

- 1. Open the **DNS Zone** you created.
- 2. Click + Record Set → Configure:
 - o Name: Enter a subdomain (e.g., www for www.mywebapp.com).
 - Type: A (Address Record).
 - o **TTL**: Keep default (e.g., 3600 seconds).
 - o IP Address: Enter the Public IP of your Web App or Load Balancer.
- 3. Click **OK** to save the record.

Step 3: (Optional) Add a CNAME Record for Custom Domain Mapping

If using an **Azure Web App (App Service)**, create a **CNAME record** instead of an A record:

- 1. Click + Record Set in the DNS Zone.
- 2. Configure:
 - **Name**: app (to create app.mywebapp.com).
 - Type: CNAME (Alias Record).
 - Alias: Enter the Web App's default domain (e.g., mywebapp.azurewebsites.net).
- 3. Click **OK** to save.

Step 4: Update Domain Registrar with Azure Name Servers

- 1. In Azure DNS Zone, go to the Name Servers section.
- 2. Copy the provided Azure Name Server records (e.g., ns1-01.azure-dns.com).
- 3. Log in to your **domain registrar** (GoDaddy, Namecheap, etc.).
- 4. Update the domain's Name Server (NS) records with the Azure Name Servers.

Step 5: Verify DNS Propagation

After updating the NS records, DNS changes may take some time to propagate.

- Test using:
- nginx
- CopyEdit

•	nslookup www.mywebapp.com				