

Custom domain to your Azure Web App:

Prerequisites

Before you start, you need:

1. A custom domain name (e.g., myapp.company.com or www.myapp.com)
 2. Access to your domain's DNS settings (through your domain registrar like GoDaddy, Namecheap, Cloudflare, etc.)
 3. **Important:** Your App Service Plan must be at least **Basic (B1)** or higher - custom domains are NOT available on Free (F1) tier
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Step 1: Upgrade Your App Service Plan (If Needed)

Check your current plan in Azure Portal:

- Go to **sample7** → **Overview**
- Look at **App Service Plan**: Currently shows ASP-StreamlitRS-8a26 (P1v4: 1)

 **Good news!** You're on P1v4 (Premium), so custom domains are already available!

Step 2: Add Custom Domain in Azure Portal

A. Navigate to Custom Domains

1. Go to Azure Portal → **sample7**
2. Click **Settings** → **Custom domains**
3. Click **+ Add custom domain**

B. Choose Your Domain Type

You'll see two options:

Option 1: Root domain (e.g., myapp.com) **Option 2: Subdomain** (e.g., www.myapp.com or app.myapp.com)

Most people use a subdomain for web apps.

Step 3: Configure DNS Records

Azure will show you what DNS records to create. You need to add these in your domain registrar's DNS settings:

For Subdomain (e.g., app.mycompany.com):

Add these two DNS records:

1. **CNAME Record:**
 - **Type:** CNAME
 - **Name/Host:** app (or your subdomain)
 - **Value/Points to:**
sample7-c3gjfcbmcha4drax.westeurope-01.azurewebsites.net
 - **TTL:** 3600 (or default)
2. **TXT Record (for verification):**
 - **Type:** TXT
 - **Name/Host:** asuid.app (Azure will give you the exact name)
 - **Value:** Your custom domain verification ID (Azure provides this)
 - **TTL:** 3600 (or default)

For Root Domain (e.g., mycompany.com):

Add these DNS records:

1. **A Record:**
 - **Type:** A
 - **Name/Host:** @ (represents root domain)
 - **Value/IP Address:** Azure will provide the IP address
 - **TTL:** 3600
2. **TXT Record:**
 - **Type:** TXT
 - **Name/Host:** asuid or @
 - **Value:** Your verification ID from Azure
 - **TTL:** 3600

Step 4: Add Domain in Azure

1. After adding DNS records, **wait 5-10 minutes** for DNS propagation
2. Back in Azure Portal → Custom domains → **+ Add custom domain**
3. Enter your domain name (e.g., app.mycompany.com)
4. Click **Validate**
5. Azure will check the DNS records
6. If validation passes, click **Add**

Step 5: Add SSL Certificate (HTTPS)

After adding the domain, you MUST add an SSL certificate for HTTPS:

Option A: Free Managed Certificate (Recommended)

1. In **Custom domains**, find your newly added domain
2. Click **Add binding** next to your domain
3. Select **TLS/SSL Setting**:
 - **Source:** App Service Managed Certificate (Free)
 - **TLS/SSL Type:** SNI SSL
4. Click **Add**

Note: Free managed certificates:

- Auto-renew automatically
- Only work for standard domains (not wildcard)
- Require the domain to be added first

Option B: Upload Your Own Certificate

If you have your own SSL certificate:

1. Go to **Settings** → **Certificates**
 2. Click **+ Add certificate** → **Upload certificate**
 3. Upload your .pfx file
 4. Enter the password
 5. Then bind it to your custom domain
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Step 6: Verify It Works

1. **Wait 10-15 minutes** for DNS propagation

Try accessing your custom domain:

<https://app.mycompany.com>

- 2.
 3. It should redirect to HTTPS and show your Streamlit app
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Common DNS Providers - Where to Add Records

GoDaddy:

- Login → My Products → DNS → Manage DNS → Add Records

Namecheap:

- Domain List → Manage → Advanced DNS → Add New Record

Cloudflare:

- Select Domain → DNS → Add Record

Google Domains:

- My Domains → Manage → DNS → Custom Records

Azure DNS:

- If using Azure DNS → DNS zones → Your domain → + Record set
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Example: Complete Setup

Let's say you want `streamlit.mycompany.com`:

In Your DNS Provider:

Type	Name/Host	Value/Target
CNAME	<code>streamlit</code>	<code>sample7-c3gjfcbmcha4drax.westeurope-01.azurewebsites.net</code>
TXT	<code>asuid.streamlit</code>	<code>asuid.sample7.westeurope-01.azurewebsites.net</code> (from Azure)

In Azure Portal:

1. Custom domains → Add custom domain
 2. Enter: `streamlit.mycompany.com`
 3. Validate and Add
 4. Add SSL binding (Free managed certificate)
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Troubleshooting

"Domain validation failed"

- **Wait longer** - DNS can take up to 48 hours (usually 10-15 minutes)

- **Check DNS records** - Use nslookup or online DNS checker
- **Verify TXT record** - Make sure it exactly matches what Azure provides

"Certificate binding failed"

- Make sure domain is added successfully first
- Try again after a few minutes
- Check if your App Service Plan supports SSL (B1 and above)

Check DNS propagation:

Check CNAME

```
nslookup streamlit.mycompany.com
```

Check TXT

```
nslookup -type=TXT asuid.streamlit.mycompany.com
```

Or use online tools:

- <https://dnschecker.org>
 - <https://mxtoolbox.com>
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Summary Steps:

1. Verify you're on Basic tier or higher (you are - P1v4)
 2. Add DNS records at your domain registrar
 3. Wait 10-15 minutes
 4. Add custom domain in Azure Portal
 5. Add SSL certificate binding
 6. Test your custom domain
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Need help with any specific step or domain provider? Let me know!