

Requirements

Hardware Requirements

- 8GB RAM
- 4 Core/8 Thread AMD64 based processor
- 500GB available storage

Software Requirements

TopMod QA's server-side infrastructure relies on Docker and Docker Compose, as well as an Nginx reverse proxy paired with LetsEncrypt SSL generation.

The easiest way to ensure that the Docker requirements are met is by using the docker convenience script:

```
curl -fsSL https://get.docker.com -o get-docker.shsudo sh ./get-docker.sh --dry-run
```

To install Nginx, run the following:

```
sudo apt update
sudo apt install nginx
```

To install LetsEncrypt's certbot, run the following:

```
sudo apt install snapd
snap install core; snap refresh core
snap install --classic certbot
```

The following ports must be available on the server (not in use), :

- 443 (TCP/UDP) - **Exposed**
- 3000 (TCP/UDP)
- 3478 (TCP/UDP) - **Exposed**
- 5349 (TCP/UDP) - **Exposed**
- 17769 (TCP/UDP)
- 21338 (TCP/UDP)
- 32770 (TCP/UDP) - **Exposed**

Ensure that your A records are pointing to the server and that DNS requests are resolving correctly. You will need two of them, one for the Collaboration system, and the second for the TopMod QA backend itself.

Sharepoint Setup

In order to connect to Sharepoint, the backend must be registered by following the instructions located at: <https://learn.microsoft.com/en-us/entra/identity-platform/quickstart-register-app?tabs=certificate>

Once the app registration is complete, follow these instructions to generate a self-signed certificate which will then be added to your Sharepoint App registration: <https://learn.microsoft.com/en-us/entra/identity-platform/howto-create-self-signed-certificate>

The screenshot shows the Microsoft Entra admin center interface. At the top, there is a search bar and navigation icons. The main content area is titled 'Contoso App 1' and includes a search bar, 'Delete', 'Endpoints', and 'Preview features' buttons. A left-hand navigation menu lists various management options: Overview (selected), Quickstart, Integration assistant, Branding & properties, Authentication, Certificates & secrets, Token configuration, API permissions, Expose an API, App roles, and Owners. The main content area is divided into 'Essentials' and 'Get Started' sections. The 'Essentials' section lists: Display name (Contoso App 1), Application (client) ID (11111111-1111-1111-1111-111111111111), Object ID (00000000-0000-0000-0000-000000000000), Directory (tenant) ID (22222222-2222-2222-2222-222222222222), and Supported account types (My organization only). The 'Get Started' section includes links for Client credentials (Add a certificate or secret), Redirect URIs (Add a Redirect URI), Application ID URI (Add an Application ID URI), and Managed application in local directory (Contoso App 1).

On the right hand side of the registration overview, you can add the certificate. Once this is done, go to the API Permissions menu on the left and add the following permissions:

Permission Group	Permission Type	Permission
Sharepoint	Application	Sites.FullControl.All
Microsoft Graph	Delegated	User.Read

Preparations

Please ensure that you have the following information to hand before continuing with the setup:

- TopMod QA License ID (Provided by DAQA)
- TopMod QA Client ID (Provided by DAQA)
- TopMod QA Deployment Binary (Provided by DAQA)
- Desired TopMod QA backend URL (FQDN)
- Desired TopMod QA collaboration URL (FQDN)
- Sharepoint site URL (ie., <https://ORG.sharepoint.com:443/sites/SITENAME>)
- Sharepoint tenantId (32bit UUID)
- Sharepoint clientId (32bit UUID)
- Sharepoint secret
- Sharepoint certificate & certificate key/password

- SMTP server details (Credentials, Host, Port)

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