

VSCode Container Service

This directory contains the VS Code server container configuration for secure remote development.

Contents

- **Dockerfile**: Builds the code-server image with SSL support and development tools
- **generate_certs.sh**: Script to generate self-signed SSL certificates using mkcert or OpenSSL
- **.env.template**: Example environment file for configuration variables
- **extensions.json**: Recommended VS Code extensions (PlantUML, AsciiDoctor)
- **nginx.conf**: Nginx configuration (currently unused, SSL handled directly by code-server)

How it Works

The VS Code container is designed to run as part of the main docker-compose setup:

1. From the **docker/** directory, run:

```
docker-compose up
```

2. The container starts and automatically:
 - Generates SSL certificates for secure HTTPS access
 - Installs recommended extensions (PlantUML, AsciiDoctor)
 - Starts code-server on port 8443 with SSL enabled
3. Access your VS Code environment at <https://localhost:8443>

Certificate Generation

The **generate_certs.sh** script handles SSL certificate creation:

- **Preferred**: Uses **mkcert** for locally trusted certificates
- **Fallback**: Uses OpenSSL for self-signed certificates
- Supports multiple hostnames via **CERT_HOSTNAMES** environment variable

Development Tools Included

- **PlantUML**: For creating diagrams (with Java runtime and Graphviz)
- **AsciiDoctor**: For documentation authoring

- **mkcert**: For generating trusted local certificates
- **Standard development tools**: curl, wget, openssl

Configuration

Copy `.env.template` to `.env` and customize:

```
CERT_HOSTNAMES=localhost 127.0.0.1 steamdeck.fritz.box
```

Security

- Code-server requires password authentication
- All traffic is encrypted via HTTPS
- Certificates are automatically generated and managed
- Container runs as non-root user (`coder`)