

Microsoft Dev Proxy



<https://github.com/crowleysoftware/DevProxyDemo>



What is Dev Proxy?



- An API simulator for testing apps beyond the happy path.
- Your apps call out to APIs normally.
- Dev Proxy intercepts the requests and responds according to configuration you specify.

Simulate

How apps respond To:

- API errors
- Rate limits
- Slow APIs
- Authentication errors
- Redirects
- Any HTTP status code, and response body, headers, etc.

Mocking

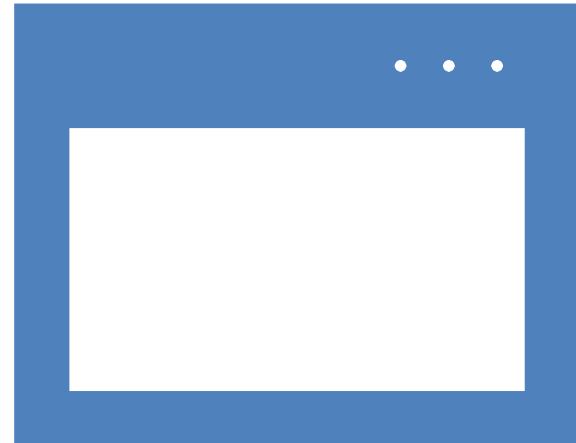


Supply canned responses

- Achieve results difficult to obtain from real API

Generate mocks by recording
responses

Installation



```
winget install Microsoft.DevProxy --silent
```

Security Warning



You are about to install a certificate from a certification authority (CA) claiming to represent:

Dev Proxy CA

Windows cannot validate that the certificate is actually from "Dev Proxy CA". You should confirm its origin by contacting "Dev Proxy CA". The following number will assist you in this process:

Thumbprint (sha1): FCB8CCDD 98F8EB2E DDE04695 36004B3C
A6AA63DF

Warning:

If you install this root certificate, Windows will automatically trust any certificate issued by this CA. Installing a certificate with an unconfirmed thumbprint is a security risk. If you click "Yes" you acknowledge this risk.

Do you want to install this certificate?

Yes

No

Start it up

devproxy

Trust cert

Allow firewall
access

Default setup
intercepts
requests to json
placeholder

It becomes the System Proxy

```
PS C:\repos\DevProxyDemo\QuoteOfTheDay> devproxy
info  Dev Proxy API listening on http://localhost:8897...
info  Dev Proxy listening on 127.0.0.1:8000...
```

- Dev Proxy registers itself as the system proxy by default.
- Your app/system/platform may need to be configured to use it.

Plugin Architecture

Behavior is determined by the plugins loaded in the configuration file:

- Latency plugin
- Mock Response plugin
- Rate Limit plugin
- Etc,. Etc.
- Your own custom plugin

Shut it down

Use `ctrl+c` so that it
unregisters as
system proxy



Configure Dev Proxy

- **Plugin architecture**
- **Use built-in or build your own**
- **If you name your config file devproxycr.json or .jsonc, it will load from the working dir. Or use --config-file arg to tell it where the config file is**

Config file structure

- 3 sections
 - Schema
 - List of plugins
 - General config settings
- Plugins are applied in order they are defined in config file
- Plugins also have their own config section
- Plugins can be added multiple times with different config



Dev Proxy Toolkit

- Facilitates using Dev Proxy in VS Code
- Linting
- Code snippets
- Start/Stop controls



DEMO

