

Dev Proxy

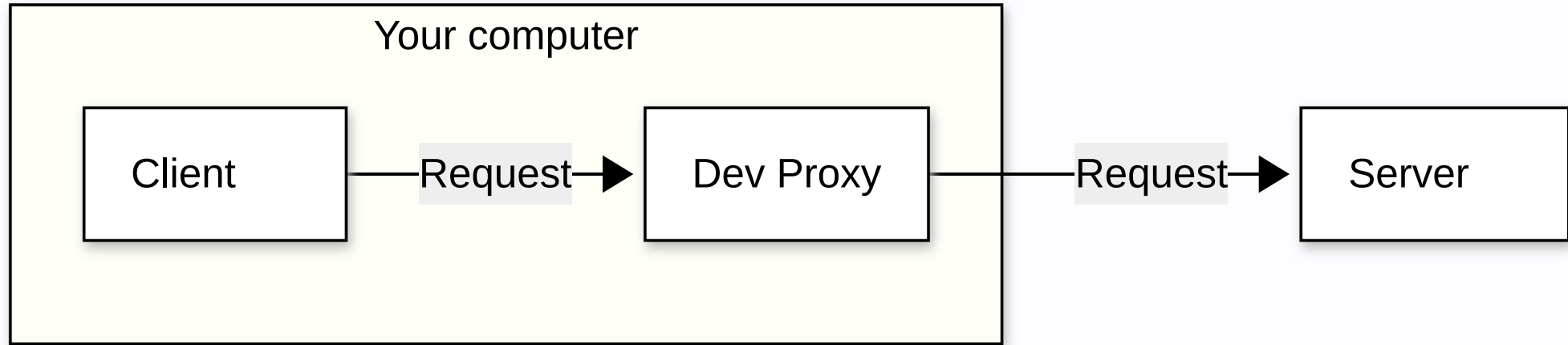
Dev Proxy is a tool that helps you effortlessly test your app beyond the happy path.

Story

September 2025 CloudFlare outage on their Cloudflare Dashboard due to repeated calls to their own API - the cause was a `useEffect` without any dependencies.
DDoS themselves.

What is Dev Proxy?

Dev Proxy is a forward proxy that you can use to intercept and modify requests from your application to any target server. With Dev Proxy, you can:



For and against (Pro et contra)

Pros

- You can mock whatever backend scenario you want.
- Use whatever script or language you want.
- It was like it was never there - bypass the proxy to return to your regular behaviour.

Cons

- Takes time to setup.
- Another dependency to install.
- Small learning curve.

Use Cases

- **Simulate API errors** - on internal (ie. localhost) and external (ie. Microsoft Graph).
- **Add latency** to requests to so you can test your UI display loading data messages.
- Fire **rate limits** and **handle throttling** - test with the `Retry-After` header.



- Stand up **mock APIs and data** - for when the backend is not ready yet
- **Intercept OpenAI-compatible requests** to **analyze costs**
- Check if your API is making requests with **least permissions** with **API Center**

Get Started

...with Dev Proxy
from the Dev Proxy
Team



Local Development

-  Dev Proxy will set itself as the system proxy. You can run commands `Invoke-WebRequest` or `curl`.
-  Chromium* based browsers (Edge/Chrome) bypass system proxy settings for localhost URLs - you need to exclude localhost URLs from the bypass list.

*See [documentation](#) for Firefox.

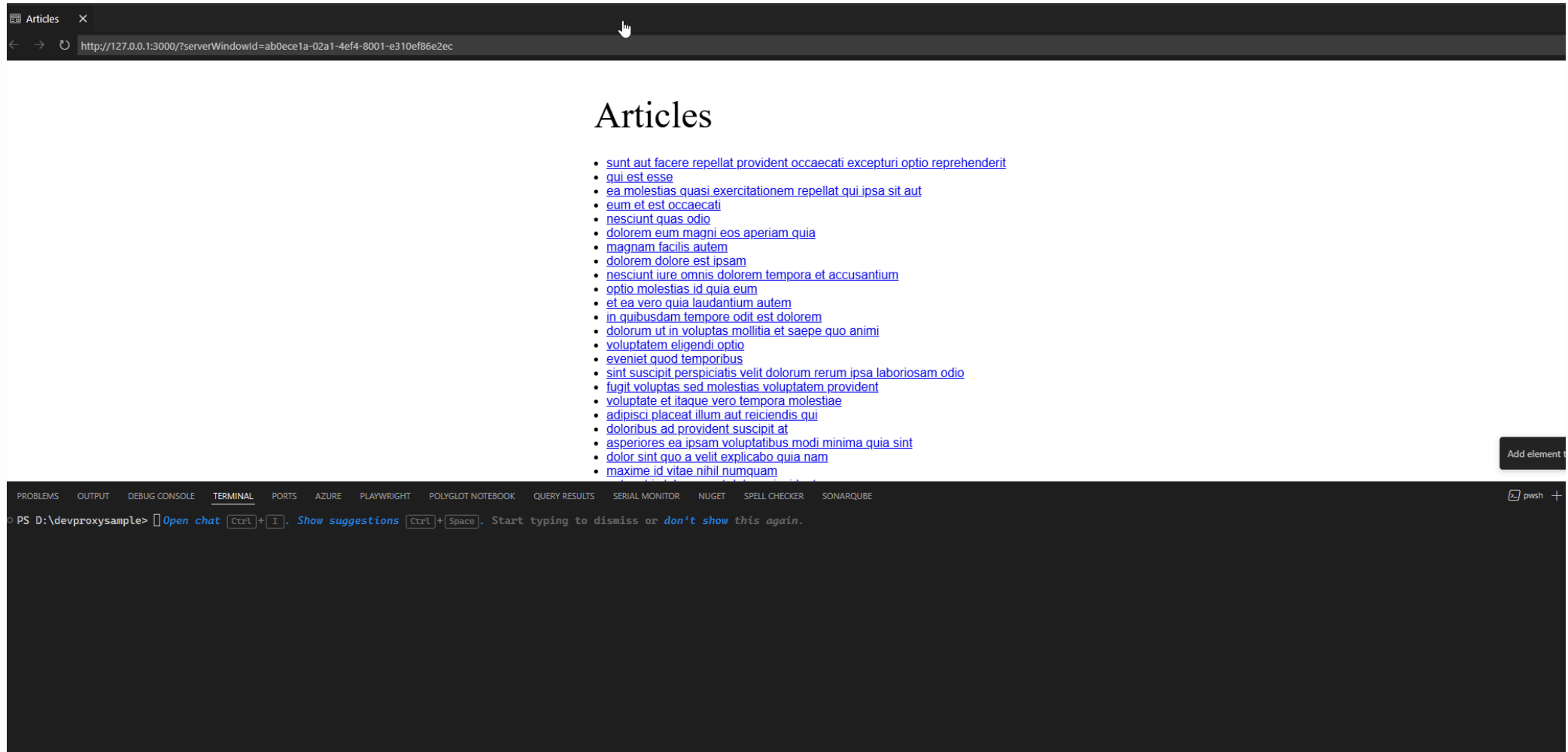
How to run locally

Run this to test localhost

```
taskkill /f /im msedge.exe  
cd "C:\Program Files (x86)\Microsoft\Edge\Application"  
./msedge `--proxy-bypass-list="<-loopback>" `--proxy-server="127.0.0.1:8000"
```

⚠ Save your work beforehand ⚠

Usage



Dev Proxy Toolkit

VSCode extension is a
wrapper to the CLI.



Config

Open the VSCode command palette `CTRL+SHIFT+P` and 'Dev Proxy Toolkit: Create create configuration file'

Creates `.devproxy/devproxyc.json`

```
{
  "$schema": "https://raw.githubusercontent.com/dotnet/dev-proxy/main/schemas/v1.0.0/rc.schema.json",
  "plugins": [
    {
      "name": "RetryAfterPlugin",
      "enabled": true,
      "pluginPath": "~appFolder/plugins/DevProxy.Plugins.dll"
    },
    {
      "name": "GenericRandomErrorPlugin",
      "enabled": true,
      "pluginPath": "~appFolder/plugins/DevProxy.Plugins.dll",
      "configSection": "genericRandomErrorPlugin"
    }
  ],
  "urlsToWatch": [
    "https://jsonplaceholder.typicode.com/*"
  ],
  "genericRandomErrorPlugin": {
    "errorsFile": "devproxy-errors.json"
  },
  "rate": 50,
  "logLevel": "information",
  "newVersionNotifiction": "stable",
  "showSkipMessages": true,
  "showTimestamps": true
}
```

Plugins

Use `plugins` or make your own

- `Auth` - Simulates authentication and authorization using API keys or OAuth2.
- `CachingGuidancePlugin` - Shows a warning when Dev Proxy intercepted the same request within the specified period of time.
- `CrudApiPlugin` - Simulates a CRUD API with an in-memory data store.

- `EntraMockResponsePlugin` - Mocking auth flow API requests.
- `ExecutionSummaryPlugin` - Creates a summary of the requests that pass through the proxy.
- `MockGeneratorPlugin` - Generate mocks from the request.

- `MockRequestPlugin` - test webhooks in your client from dev proxy.
- `RateLimitingPlugin` - Simulates rate-limit behaviors.
- `RewritePlugin` - use rewrite rules - test example.com vs example.local
- `UrlDiscoveryPlugin` - creates a list of requested URLs.
- ... and much more (including your own)

Mock and CRUD Plugin

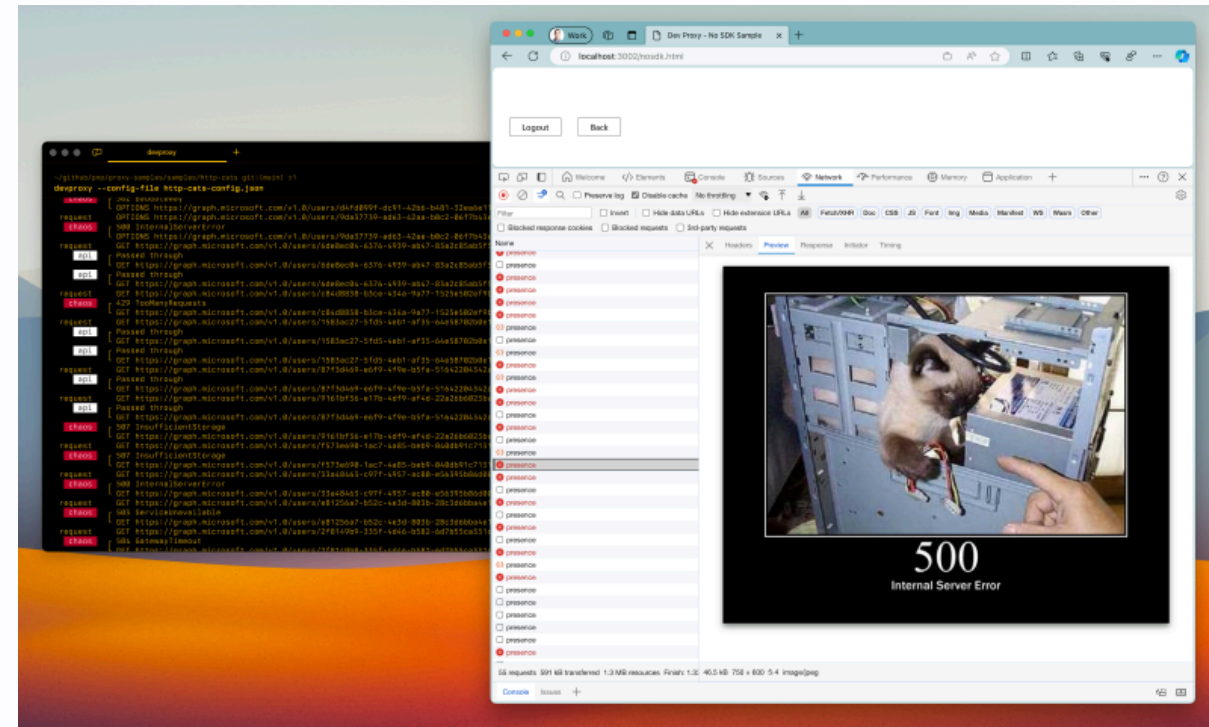
Return fixed data when your backend is not ready

- Different data on `nth` request
- Can deliver binary data
- Create a mock CRUD API - mutates in memory and resets on restart.
- Access via `devtunnel` over the internet - have your cloud apps connect to your machine.
- Supports Microsoft Entra

Samples

github.com/pnp/proxy-samples

- [http cats](#) - return cat images when simulating erroneous HTTP status codes for Microsoft Graph.



CloudFlare

What about the CloudFlare outage and how could Dev Proxy have helped in this situation? The plugin `CachingGuidancePlugin` could have been run on the developers machine and they would have seen that the API was getting called too frequently.

Resources

 View Online neave.dev/devproxy

 Download [PowerPoint](#) and [PDF](#)

 Contribute on  [GitHub](#)