Caddy Web server, auto HTTPS

Caddyfile human-friendly config → adapt → **JSON config** native format → load / reload → **Admin API** localhost:2019 → applies → **Running server** auto HTTPS

CONCEPTS

> With a Caddyfile in the current directory, caddy run loads it with no flags.

> A site address with a real domain gets a public certificate automatically; localhost gets a locally trusted one.

> The one-liner file-server and reverse-proxy commands disable the admin API, so caddy reload cannot touch them.

RUN AND CONTROL

`caddy run`
Run in the foreground

`caddy start`
Run in the background

`caddy stop`
Stop the running instance gracefully

`caddy reload`
Apply the config to the running instance

`caddy run --config <file>`
Run with a specific config file

RUN AND CONTROL (cont.)

`caddy run --watch`
Reload automatically when the config changes

`caddy version`
Print the version

CONFIG TOOLS

`caddy validate --config <file>`
Load and provision without running

`caddy fmt --overwrite <file>`
Format the file in place

`caddy adapt --config <file>`
Convert a Caddyfile to JSON

`caddy run --config <file> --adapter caddyfile`
Pick the config adapter by name

QUICK SERVERS

`caddy file-server`
Serve the current directory

`caddy file-server --browse`
Serve with a directory listing

QUICK SERVERS (cont.)

`caddy file-server --root <dir> --listen :<port>`
Serve a folder on a port

`caddy file-server --access-log`
Log every request

`caddy reverse-proxy --from <addr> --to <backend>`
Proxy requests to a backend

`caddy reverse-proxy --change-host-header --to <url>`
Send the backend's own Host header

`caddy respond --status <code> "<body>"`
Run a fixed-response test server

CADDYFILE BASICS

`example.com { ... }`
Site block with automatic HTTPS

`:8080 { ... }`
Site block on plain HTTP, port 8080

`http://example.com { ... }`
Explicit HTTP, no auto-HTTPS

CADDYFILE BASICS (cont.)

`{ email <addr> }`
Global options block, must come first

`reverse_proxy <backend>`
Send requests to a backend

`file_server`
Serve static files from the site root

`root * <dir>`
Set the document root for all paths

`encode zstd gzip`
Compress responses

`respond "<text>" <status>`
Send a fixed response

`redir <to> permanent`
Redirect to another URL

`try_files {path} / index.html`
Single-page app fallback

`handle /api/* { ... }`
Exclusive block for a path prefix

`handle_path /api/* { ... }`
Same, but strips the prefix first

`header <Name> <value>`
Set a response header

CADDYFILE BASICS (cont.)

`basic_auth { <user> <hash> }`
Require a username and password

`log`
Enable access logs for the site

`@<name> { ... }`
Define a named request matcher

`(<name>) { ... }  / import <name>`
Reusable snippet and its use

CERTIFICATES AND PASSWORDS

`caddy trust`
Install the local CA in system trust stores

`caddy hash-password`
Prompt for a password and print its hash

RECIPES

Static site with SPA fallback

```
# Caddyfile
example.com {
  root * /var/www/site
  encode zstd gzip
  try_files {path} /
index.html
  file_server
}
```