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Download ngrok



```
brew install ngrok
```



```
snap install ngrok
```



```
winget install ngrok -s msstore
```

[More agents
& SDKs →](#)

[Get your
authtoken →](#)

Add your authtoken

```
ngrok config add-authtoken <token>
```

Start an endpoint

```
ngrok http 80
```

Expose different kinds of servers

API Service (Port 8080): `ngrok http 8080`

Web App (Port 3000): `ngrok http 3000`

SSH Server (Port 22): `ngrok tcp 22`

Postgres Server: `ngrok tcp 5432`

Any service on a different machine:

```
ngrok http http://192.168.1.50:8080
```

Troubleshoot

```
ngrok diagnose
```

Traffic Policy

ngrok's configuration language that offers you the flexibility to filter, match, manage and orchestrate traffic to your endpoints.

With Traffic Policy, you can:

- Validate incoming traffic
- Block malicious traffic
- Rewrite URLs
- Respond with custom content

[List of Traffic Policy Actions →](#)

Create a policy file

```
nano policy.yaml
```

Example: Using the verify-webhook action

```
# policy.yaml
on_http_request:
  - actions:
    - type: verify-webhook
      config:
        provider: $PROVIDER #
Example: Slack
        secret: $PROVIDER_TOKEN
```

Start a public endpoint

```
# Using a Traffic Policy file:
ngrok http 8080 --url https://
baz.ngrok.dev --traffic-policy-file
policy.yaml
```

Load balance

```
# Between two different ports:
ngrok http 8080 --url https://
api.example.com --pooling-enabled
ngrok http 8081 --url https://
api.example.com --pooling-enabled
```

[Read more about Endpoint Pooling →](#)



Add authentication

```
# Basic Authentication
# policy.yaml
on_http_request:
  - actions:
    - type: basic-auth
      config:
        credentials:
          - USERNAME1:PASSWORD1
          - USERNAME2:PASSWORD2
```

```
# OAuth Authentication
# policy.yaml
on_http_request:
  - actions:
    - type: oauth
      config:
        provider: google
```

[List of providers →](#)

Add webhook verification

```
# policy.yaml
on_http_request:
  - actions:
    - type: verify-webhook
      config:
        provider: github
        secret: $SECRET
    - type: custom-response
      config:
        status_code: 200
        headers:
          content-type: text/plain
          body: GitHub webhook
verified
```

[List of providers →](#)

What else can I do with ngrok?

- Use ngrok Kubernetes Operator: <https://ngrok.com/docs/k8s/>
- Get started with Traffic Observability: <https://ngrok.com/docs/obs/>
- Look into Identity and Access Management: <https://ngrok.com/docs/iam/>
- Read ngrok's Security Best Practices: <https://ngrok.com/docs/guides/security-dev-productivity/>
- Check out the Gateway Examples Gallery: <https://ngrok.com/docs/universal-gateway/examples/>

