The **ngrok** cheasheet

Sign up for an account →

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

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

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

List of providers →

Add webhook verification

```yaml
# 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/