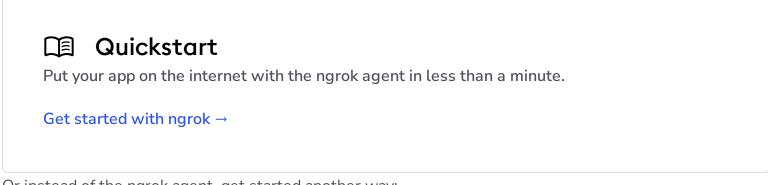


# **Overview**

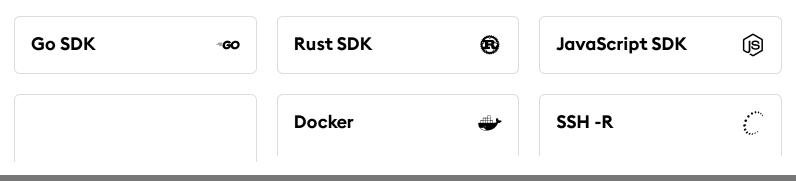
ngrok is your app's front door. ngrok is a globally distributed reverse proxy that secures, protects and accelerates your applications and network services, no matter where you run them, ngrok supports delivering HTTP, TLS or TCP-based applications. More about how ngrok works →

You can use ngrok in development for webhook testing or in production as an API Gateway, Kubernetes Ingress, or Identity-Aware Proxy. You can also run ngrok to easily create secure connectivity to APIs in your customers' networks or on your devices in the field. More about what you can do with ngrok →

# **Get Started**



Or instead of the ngrok agent, get started another way:



# Kubernetes Operator



### Modules

Once ngrok is in front of your app, you can add authentication, acceleration, transformation, and other behaviors.

#### **Basic Auth**

Require a username and password with HTTP Basic Auth.

Read more →

#### OAuth

Enforce an OAuth flow to well-known IdPs like Google.

Read more →

# Request Headers

Add or remove
headers from HTTP
requests before they
are sent to your
upstream service

#### **IP Restrictions**

Allow or deny traffic based on the source IP of connections.

Read more →

# Webhook Verification

Verify HTTP
requests are signed
by a webhook
provider like Slack or
GitHub.

Read more →

# OpenID Connect

Enforce an OpenID Connect flow to a federated IdP.

Read more →

Read more →

### **Mutual TLS**

Enforce mutual TLS auth with a configured set of CAs.

Read more →

# User Agent Filter

Block bots and browsers with rules that allow or deny HTTP requests based on User-Agent header.

Read more →

#### **SAML**

Enforce a SAML flow to a federated IdP, optionally authorizing users by group.

Read more →

#### Circuit Breaker

Protect upstream services by rejecting traffic when they become overwhelmed.

Read more →

All Modules →

# Reference

# **Agent CLI**

Agent CLI commands and options

# Agent Config File

Options for ngrok.yml: the agent config file

Read more →

### **API Reference**

HTTP API resources and methods for api.ngrok.com

Read more →

# Header Template Variables

Variables you can template into request or response headers.

Read more →

Read more →

#### **Events**

All observable events and event payload shapes

Read more →

#### **Errors**

Codes for every unique error condition returned by ngrok

Read more →

# **Agent SDK Reference**

#### Go



ngrok-go package docs on pkg.go.dev

Read more →

JavaScript / TypeScript



#### Rust



ngrok-rust crate docs on docs.rs

Read more →

**Python** 

ngrok-javascript module docs

Read more →

ngrok-python package docs

Read more →

All Agent SDKs →

### Guides

Follow tutorials for common tasks when working with ngrok.

# Inspect your traffic

View your app's traffic in real time with the ngrok agent's inspection interface

Read more →

# Bring your own domain

Use ngrok with your own domain by setting up a DNS CNAME record

Read more →

All Guides →

## Edit this page

Last updated on Oct 30, 2024 by Mandy Hubbard

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What is ngrok?  $\rightarrow$ 

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