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**ngrok**



# Your app's front door

All-in-one API gateway, Kubernetes Ingress, DDoS protection, firewall, and global load balancing as a service.

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[Technical documentation](#) →



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## Developer Roundtable: Solidify Your Infrastructure with Automation

Join me Kerim Satirli, Senior Developer Advocate at HashiCorp, as we discuss running software on distributed arch

Now →



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# ngrok for production

Serve your apps and APIs globally without any friction whether they are running in the cloud, on-premises, or even in customer and partner networks.

[Sign up for free](#)

```
const ngrok = require("@ngrok/ngrok");
const fs = require("fs");
(async function () {
  const listener = await ngrok.forward({
    addr: 8001,
    authtoken_from_env: true,
    domain: "example.ngrok.dev",
    policy: {
      "inbound": [
        {
          "actions": [
            {
              "type": "rate-limit",
              "config": {
                "name": "30 requests per minute",
                "algorithm": "sliding_window",
                "capacity": 30,
                "rate": "60s",
                "bucket_key": [
                  "conn.client_ip"
                ]
              }
            }
          ]
        }
      ]
    }
  });
  process.stdin.resume();
})();
```

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customers' environments without site-to-site VPNs, VPC peering or other complex networking.

[Learn more →](#)

## API Gateway

Go from code to global in just minutes with a developer-friendly, idiomatic solution for managing traffic to your APIs.

[Learn more →](#)

## Device Gateway

Standardize connectivity across your fleet of IoT devices running in external networks. No need to struggle with custom protocols.

[Learn more →](#)

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## Kubernetes Operator

Simplify ingress with the Kubernetes Operator, using Ingress Controller or Gateway API, by offloading traffic management and security to ngrok's global network.

[Learn more →](#)

## Global Load Balancer

Ensure high performance and availability by routing traffic to the nearest Point of Presence (PoP) with preconfigured global load balancer.

[Learn more →](#)

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## Identity-Aware Proxy

Protect your applications and APIs from unauthorized access without writing extra code.

Learn more →

## ngrok for development

Bring secure connectivity to apps and APIs in localhost and dev/test environments with just one command or function call.

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## Webhook Testing

Get a secure public URL for your local web server, then trigger webhooks. Inspect the traffic to your server and replay webhook requests to iterate quickly while staying in context.

[Learn more →](#)

## Developer Preview

Demo a website or an app running on your local machine to a client or stakeholder instantly and securely, without deploying to a staging environment.

[Learn more →](#)

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## Pay only for what you use

Ditch high upfront costs and pay only for active endpoints and successful API calls. Scale your costs in line with your API traffic growth.

[Get started for free](#)

## How it works

ngrok operates a global network where it accepts traffic to your upstream services from clients.

Clients connect to your endpoints (URLs). You configure policies such as authentication or transformation. Unlike traditional proxies, ngrok doesn't rely on IP forwarding. Instead, you run a lightweight agent that connects securely to ngrok's network. Traffic flows through this secure connection to your service.



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With ngrok, we get comprehensive security with a full scope of functionality for all of our use cases.

Ihor Leshko, Director of Engineering at Databricks

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okta



databricks

Schneider  
Electric

tyler  
technologies

VERITAS

zoom



Microsoft

zendesk

**Read customer stories** →

# Trusted and secure platform with massive scale

Working with ngrok means working with a vetted, secure solution.

[View security practices](#) →

Over  
**7 million**  
devs use ngrok

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**Cloud 100**  
companies use ngrok

**Over  
100 trillion**  
total requests served

**Over 1600  
AI innovators**  
deliver AI/ML apps with ngrok

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BUILT FOR developers.

Unlock the power of SaaS. Built to deliver applications and APIs with zero networking configuration and zero hardware. Run your apps anywhere and bring them online in just one line.

# No need to know anything about networking

No more ports, IPs, DNS, or firewall configurations.  
Just URLs and identities.

Learn more →

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One command, seriously.

[Learn more →](#)

Offload your non functional  
requirements to our gateway

With flexible, idiomatic CEL-based traffic policy.

[Learn more →](#)

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Live streaming logs of your traffic.

[Learn more →](#)

## Embed ngrok via SDKs

Python, Rust, Go, Java, and JavaScript SDKs that you can embed directly into your app and APIs.

[Learn more →](#)

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# The ngrok platform

## Zero Trust

Add SSO, Mutual TLS, IP Policy, and webhook signature verification.

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## Any protocol

Native support for HTTP, TLS, and any TCP based protocol.

## Observability

Log all traffic and account activity.

## Global Network

Deliver fast and reliable services powered by our Points of Presence.



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## Authorization

Protect services with OAuth, SAML and OIDC.

## Instant domains

Use a ngrok domain with no setup or bring your own domain.

**Get started for free →**

## Encryption

Automatic certificates and an A+ SSL report card with no config.

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In this episode of our Developer Roundtable series, we highlight our updated ngrok Kubernetes Operator that now supports the Kubernetes Gateway API spec.

Watch the webinar

# The latest from the ngrok blog

Flexible and expressive traffic orchestration: introducing internal endpoints

How we built the Traffic Policy module and its actions

Drop-in API gateway policy examples for manipulating headers

How nuanced rate limiting transforms your API and business

CliffsNotes your voicemails with WebSockets, Twilio, and OpenAI

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Get the latest updates on ngrok products and features

[View the blog →](#)

## Platform

[Product](#)  
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[Secure Tunnels](#)  
[Platform Features](#)

## Use Cases

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[API Gateway](#)  
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## Resources

[Security](#)  
[Trust](#)

## Get Started

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