

NGROK

Easy HTTPS

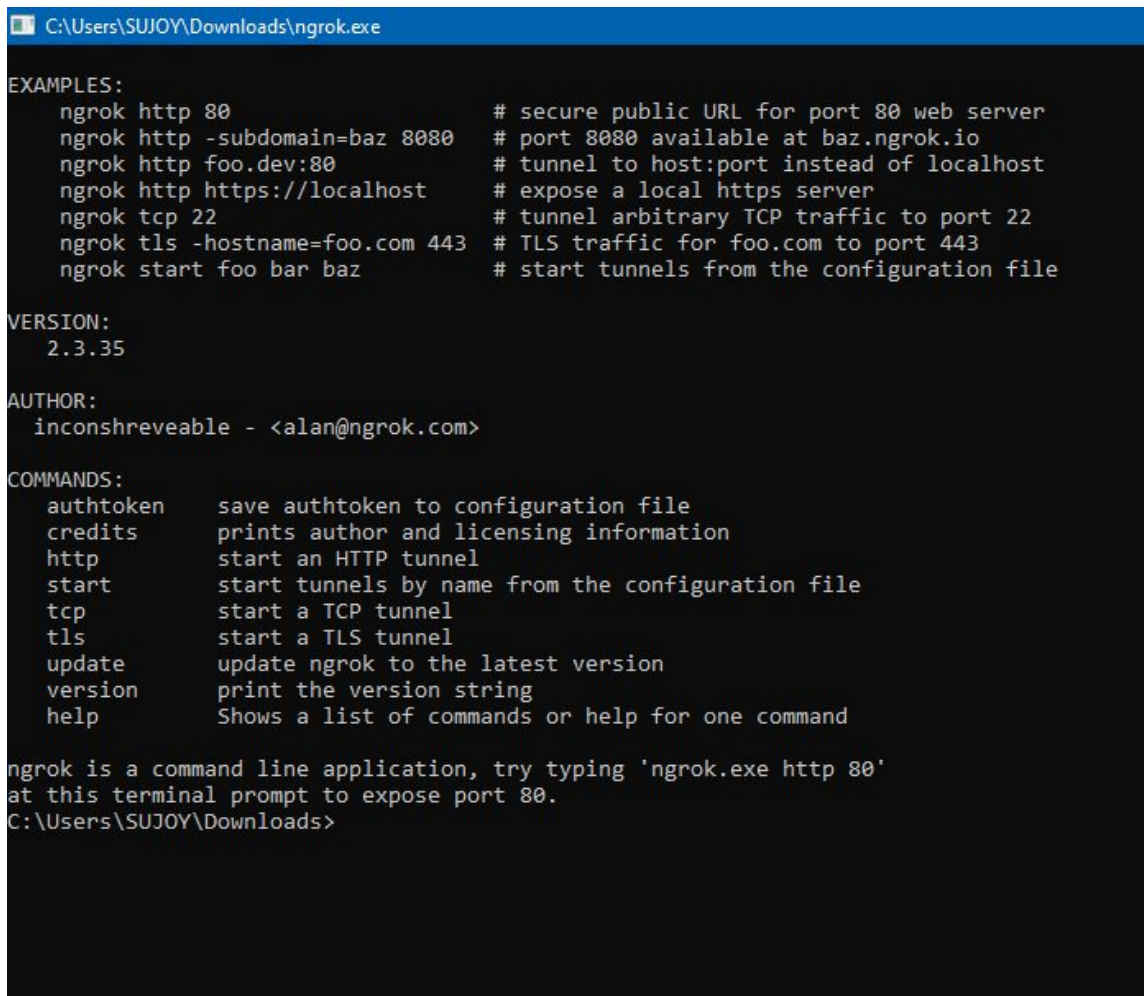
Instantly create a public HTTPS url for a website running locally on your development machine. ngrok offloads TLS so you don't have to worry about your configuration.

Authenticated Access

Set HTTP auth credentials to protect access to your tunnel and those you share it with. ngrok also supports other authentication methods. Add OAuth to your endpoints automatically; no code required.

Steps:

1. Visit www.ngrok.com and download the application based on your OS.
2. Open the application file as follows:



```
C:\Users\SUJOY\Downloads\ngrok.exe

EXAMPLES:
  ngrok http 80           # secure public URL for port 80 web server
  ngrok http -subdomain=baz 8080 # port 8080 available at baz.ngrok.io
  ngrok http foo.dev:80      # tunnel to host:port instead of localhost
  ngrok http https://localhost # expose a local https server
  ngrok tcp 22              # tunnel arbitrary TCP traffic to port 22
  ngrok tls -hostname=foo.com 443 # TLS traffic for foo.com to port 443
  ngrok start foo bar baz    # start tunnels from the configuration file

VERSION:
  2.3.35

AUTHOR:
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COMMANDS:
  authtoken  save authtoken to configuration file
  credits    prints author and licensing information
  http       start an HTTP tunnel
  start      start tunnels by name from the configuration file
  tcp        start a TCP tunnel
  tls        start a TLS tunnel
  update     update ngrok to the latest version
  version    print the version string
  help       Shows a list of commands or help for one command

ngrok is a command line application, try typing 'ngrok.exe http 80'
at this terminal prompt to expose port 80.
C:\Users\SUJOY\Downloads>
```

3. Enter the port command in terminal **./ngrok port 3000**

```

Session Status      online
Session Expires     7 hours, 59 minutes
Version             2.3.35
Region              United States (us)
Web Interface        http://127.0.0.1:4040
Forwarding           http://db4eb2563662.ngrok.io -> http://localhost:8000
Forwarding           https://db4eb2563662.ngrok.io -> http://localhost:8000

Connections
  ttl    opn    rt1    rt5    p50    p90
    0     0     0.00  0.00  0.00  0.00

```

The localhost port 8000 is set up and is tunneled to a public IP **127.0.0.1:4040**.

ngrok
online
Inspect
Status

You are using ngrok without an account. Your session will end in 7 hours, 57 minutes. [Sign up](#) for longer sessions.

No requests to display yet

To get started, make a request to one of your tunnel URLs

- <http://db4eb2563662.ngrok.io>
- <https://db4eb2563662.ngrok.io>

Socket Connection:

1.

```

ngrok by @inconshreveable

Session Status      online
Account             Sujoy Datta (Plan: Free)
Version             2.3.35
Region              United States (us)
Web Interface        http://127.0.0.1:4040
Forwarding           tcp://4.tcp.ngrok.io:19648 -> localhost:8800

Connections
  ttl    opn    rt1    rt5    p50    p90
    2     0     0.00  0.00  107.44 140.09

```

2. Gaining the public IP using ping.

```
student@student-VirtualBox:~$ ping
ping: usage error: Destination address required
student@student-VirtualBox:~$ ping 4.tcp.ngrok.io
PING 4.tcp.ngrok.io (3.138.180.119) 56(84) bytes of data.
```

3. Changes in client end.

```
int sockfd, connfd;
struct sockaddr_in servaddr, cli;

// socket create and varification
sockfd = socket(AF_INET, SOCK_STREAM, 0);
if (sockfd == -1) {
    printf("socket creation failed...\n");
    exit(0);
}
else
    printf("Socket successfully created..\n");
bzero(&servaddr, sizeof(servaddr));

// assign IP, PORT
servaddr.sin_family = AF_INET;
servaddr.sin_addr.s_addr = inet_addr("3.138.180.119");
servaddr.sin_port = htons(PORT);

// connect the client socket to server socket
if (connect(sockfd, (SA*)&servaddr, sizeof(servaddr)) != 0) {
    printf("connection with the server failed...\n");
    exit(0);
}
else
    printf("connected to the server..\n");
```

4. Connect to the server and run the client on a different network, and you can chat.

