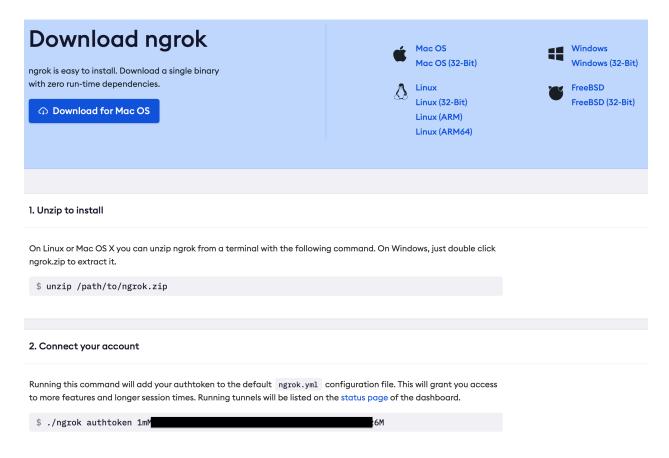
# Setup Remote Access for Misty Robot in less than 5 mins with ngrok

## **Setup and Installation:**

Step 1: Create an account https://ngrok.com

<u>Step 2:</u> Install ngrok https://dashboard.ngrok.com/get-started/setup



Run the two commands from terminal to finish setup

Extra info for users new to terminal:

You need to navigate to the location of the downloaded file before running the 2 commands. In most cases the below two lines would take you there. (Do not include \$) \$ cd

\$ cd Downloads

## **Get a Global IP for Misty:**

Start ngrok with your Misty's IP address

\$ ./ngrok http <your\_misty\_ip>

### Example:

```
$ ./ngrok http 10.0.0.237
```

You would now see something similar to this

```
ngrok by @inconshreveable
                              Sridhar Cuddalore Parthasarathy (Plan: Free)
Account
Version
                              2.3.39
Region
                              United States (us)
Web Interface
                              http://127.0.0.1:4040
Forwarding
                              http://7d692ec27c67.ngrok.io -> http://10.0.0.237:80
                              https://7d692ec27c67.ngrok.io -> http://10.0.0.237:80
Forwarding
Connections
                               ttl
                                               rt1
                                                       rt5
                                                               p50
                                                                        p90
                                       opn
                                                                        0.00
                                               0.00
                                                       0.00
                                                               0.00
```

The highlighted part is your Misty's Global IP address. Share it with anyone who wants to access Misty Remotely.

You can use this IP to interact with Misty's APIs, Websockets, write-upload-debug skills and access file system.

Example usage from <a href="mailto:sdk.mistyrobotics.com">sdk.mistyrobotics.com</a>:



Example usage from VSCode Misty PlugIn:

```
7d692ec27c67.ngrok.io

Press 'Enter' to confirm your input or 'Escape' to cancel
```

With the free plan, on every restart you would get a different URL/IP\_address for Misty. Upgrading to a subscription plan (think \$4/month) will let you use the same URL across multiple restarts.

## For advanced users only - Global ADB access:

Make sure to use the local WiFi IP address of Misty in this command. USB-Ethernet IP address will not work.

\$ ./ngrok tcp <your\_misty\_ip>:5555

#### Example:

```
$ ./ngrok tcp 10.0.0.237:5555
```

You would now see something similar to this.

```
ngrok by @inconshreveable
Account
                               Sridhar Cuddalore Parthasarathy (Plan: Free)
Version
Region
                              United States (us)
Web Interface
                              http://127.0.0.1:4040
Forwarding
                               tcp://8.tcp.ngrok.io:10621 -> 10.0.0.237:5555
Connections
                               ttl
                                       opn
                                               rt1
                                                       rt5
                                                               p50
                                                                        p90
                                               0.00
                                                               0.00
                               0
                                       0
                                                       0.00
                                                                        0.00
```

Use the highlighted address to connect with adb

## Example:

```
(cp_dev) cp-mac-15:ngrok_remote_access sridhardparthasarathy$ adb disconnect
disconnected everything
(cp_dev) cp-mac-15:ngrok_remote_access sridhardparthasarathy$ adb devices
List of devices attached
(cp_dev) cp-mac-15:ngrok_remote_access sridhardparthasarathy$ adb connect 8.tcp.ngrok.io:10621
connected to 8.tcp.ngrok.io:10621
(cp_dev) cp-mac-15:ngrok_remote_access sridhardparthasarathy$ adb devices
List of devices attached
8.tcp.ngrok.io:10621
(cp_dev) cp-mac-15:ngrok_remote_access sridhardparthasarathy$ adb shell
msm8996:/ $ ls
                         firmware
                                               init.usb.rc
                                                                   proc
                                                                           sys
                                               init.zygote32.rc
bt firmware data
                         init
                                                                   res
                                                                           system
bugreports default.prop init.environ.rc
                                               init.zygote64_32.rc root
                                                                           tombstones
cache
           dev
                        init.rc
                                                                  sbin
                                                                          ueventd.rc
charger
           dsp
                        init.recovery.qcom.rc oem
                                                                   sdcard vendor
           etc
                         init.usb.configfs.rc persist
                                                                   storage verity_key
config
msm8996:/ $
```

#### Prerequisite:

adb over wifi needs to be enabled on your Misty for this part to work.