

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

## Setup and Installation:

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

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

### Download ngrok

ngrok is easy to install. Download a single binary with zero run-time dependencies.

[Download for Mac OS](#)



Mac OS  
Mac OS (32-Bit)



Windows  
Windows (32-Bit)



Linux  
Linux (32-Bit)  
Linux (ARM)  
Linux (ARM64)



FreeBSD  
FreeBSD (32-Bit)

#### 1. Unzip to install

On Linux or Mac OS X you can unzip ngrok from a terminal with the following command. On Windows, just double click ngrok.zip to extract it.

```
$ unzip /path/to/ngrok.zip
```

#### 2. Connect your account

Running this command will add your authtoken to the default `ngrok.yml` configuration file. This will grant you access to more features and longer session times. Running tunnels will be listed on the [status page](#) of the dashboard.

```
$ ./ngrok authtoken 1mM[REDACTED]6M
```

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

Session Status      online
Account             Sridhar Cuddalore Parthasarathy (Plan: Free)
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
Forwarding           https://7d692ec27c67.ngrok.io -> http://10.0.0.237:80

Connections          ttl      opn      rt1      rt5      p50      p90
0                   0        0        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 [sdk.mistyrobotics.com](https://sdk.mistyrobotics.com):

Example usage from VSCode Misty Plugin:

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

Session Status      online
Account             Sridhar Cuddalore Parthasarathy (Plan: Free)
Version             2.3.39
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        0        0.00     0.00     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    device

(cp_dev) cp-mac-15:ngrok_remote_access sridhardparthasarathy$ adb shell
msm8996:/ $ ls
acct          d             firmware      init.usb.rc   proc          sys
bt_firmware  data         init          init.zygote32.rc  res           system
bugreports   default.prop  init.envron.rc  init.zygote64_32.rc  root         tombstones
cache        dev          init.rc        mnt           sbin          ueventd.rc
charger      dsp          init.recovery.qcom.rc  oem           sdcard        vendor
config       etc          init.usb.configfs.rc  persist       storage        verity_key
msm8996:/ $
```

Prerequisite:

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