

# Complete Meshtastic CLI Command Reference

The Meshtastic Python CLI provides the most comprehensive access to node configuration and data. This reference covers all major command categories.

## Installation

```
pip install meshtastic
# or for latest development version:
pip install meshtastic --pre
```

## Connection Options

```
# Auto-detect serial port (most common):
meshtastic --info

# Specify serial port (Windows):
meshtastic --port COM3 --info

# Specify serial port (Linux/Mac):
meshtastic --port /dev/ttyUSB0 --info

# Connect via TCP (WiFi-enabled nodes):
meshtastic --host 192.168.1.100 --info

# Connect via BLE:
meshtastic --ble "Meshtastic_ABCD" --info
```

## Information and Status

```
# Show device info, config, and channels:
```

```
meshtastic --info
```

```
# Show node database (all known nodes):
```

```
meshtastic --nodes
```

```
# Show channel list:
```

```
meshtastic --export-config
```

## Configuration Get/Set

```
# Get a specific config value:
```

```
meshtastic --get device.role
```

```
meshtastic --get lora.hop_limit
```

```
meshtastic --get power.is_power_saving
```

```
# Set a config value:
```

```
meshtastic --set device.role ROUTER
```

```
meshtastic --set lora.hop_limit 5
```

```
meshtastic --set lora.region US
```

```
# Set multiple values at once:
```

```
meshtastic --set device.role ROUTER --set lora.hop_limit 5 --set power.is_power_saving false
```

## Channel Management

```
# Show current channels:
```

```
meshtastic --info # includes channel list
```

```
# Set channel 0 (primary) name and key:
```

```
meshtastic --ch-index 0 --ch-set name "CommunityMesh"
```

```
meshtastic --ch-index 0 --ch-set psk "base64key=="
```

```
# Add a new channel:
```

```
meshtastic --ch-add
```

```
# Delete channel (specify index):
meshtastic --ch-del --ch-index 2

# Enable/disable MQTT uplink per channel:
meshtastic --ch-index 0 --ch-set uplink_enabled true
meshtastic --ch-index 0 --ch-set downlink_enabled true
```

## Identity

```
# Set long name:
meshtastic --set-owner "Your Name"

# Set short name (4 chars max):
meshtastic --set-owner-short "AB01"
```

## Position

```
# Set fixed GPS position (lat, lon, alt in meters):
meshtastic --setlat 45.5051 --setlon -122.6750 --setalt 50

# Remove fixed position (use live GPS):
meshtastic --remove-position
```

## Messaging

```
# Send a text message to primary channel:
meshtastic --sendtext "Hello, mesh!"

# Send to a specific channel index:
meshtastic --ch-index 1 --sendtext "Admin message"

# Listen for incoming messages and packets (Ctrl+C to stop):
meshtastic --listen

# Send GPS waypoint:
```

```
meshtastic --sendwaypoint --waypoint-name "Meeting Point" --waypoint-lat 45.5051 --waypoint-  
lon -122.6750
```

# Maintenance

```
# Export full config to file:
```

```
meshtastic --export-config > config.json
```

```
# Import config from file:
```

```
meshtastic --import-config config.json
```

```
# Factory reset (clears all config and node DB):
```

```
meshtastic --factory-reset
```

```
# Reboot device:
```

```
meshtastic --reboot
```

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