

# Desktop Node & MiniDapp Setup Guide

## Manual Installation

To run a Minima node, please follow the steps below:

1. If you have a previous version of Minima running, type **quit** into the Command prompt window that Minima is currently running in
2. Delete your current version of the minima.jar file
3. Download and save the latest minima.jar in the same location as your last minima.jar file, save it with the name **minima.jar**  
The latest version will be provided.
4. Open a new Command prompt window (as admin) and enter the following command, replacing the file path with the path to your new minima.jar file

### Examples:

#### Windows

```
java -jar C:\Users\YourName\minima.jar -rpcenable -mdsenable
```

#### Mac:

```
sudo java -jar /home/user/minima.jar -rpcenable -mdsenable
```

#### Linux:

```
sudo java -jar /Users/YourName/minima.jar -rpcenable -mdsenable
```

### Optional parameters

- rpcenable** : enable remote procedure call
- mdsenable** : enable the MiniDapp System
- clean** : clears existing data. All coins will be lost.
- data** : specify a path and folder name for the config files
- port** : specify the initial port for Minima to use
- host** : Specify the host IP

To create a private node:

- genesis** : start the node from the genesis block (automatically uses -clean and -private)
- private** : start a private node
- test** : uses test parameters e.g. faster block times (automatically uses -private)
- connect** : Disable the p2p and manually connect to this list of host:port
- nop2p** : Disable the automatic P2P system

5. Hit the Enter key, Minima will start.

#### Avoid

- Closing your Command Prompt window
- Allowing your PC to go to sleep
- Turning your PC off

If any of the above happen, your Minima node will stop running and you will need to repeat step 3 to start it again.

# How to Use MiniDapps

## Accessing the MiniDapp Hub

To access your node's MiniDapp hub, your node will need to have mds (MiniDapp System) enabled.

To check that your node has mds enabled, run the `mds` command in the Minima Command Line Interface (CLI).

You should see a password for accessing your MiniDapp hub, if the password value is *null*, mds is disabled and you should stop your node and restart it with the `-mdsenable` flag.

### Example

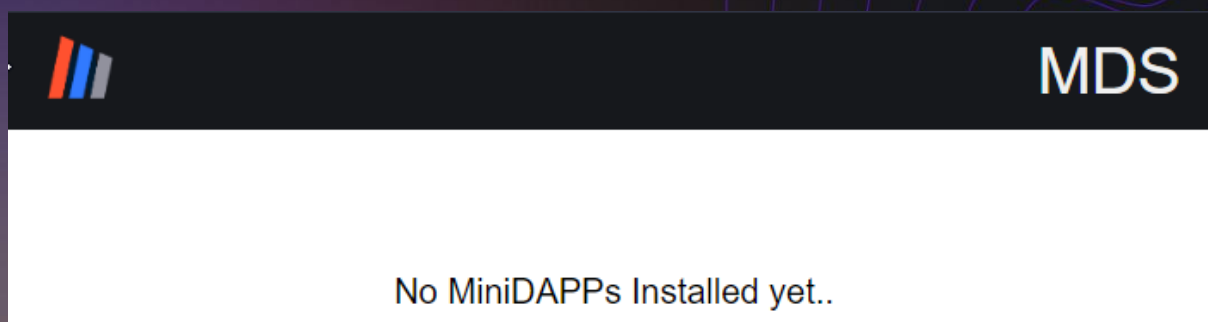
```
mds
{
  "command": "mds",
  "status": true,
  "response": {
    "password": "H8NW-7NZ9-TV63",
    "minidapps": []
  }
}
```

Each node runner has access to their MiniDapp hub via <https://localhost:9003> or <https://127.0.0.1:9003>, you may be shown a security certificate warning, to which you can click on *Advanced*, then *Proceed*.

*Note:* This may be different depending on the browser and OS you are using, simply google it.

You will see your MDS login page, enter the password shown when running `mds` from your node's CLI to access the MiniDapp Hub.

It will look something like this:





## Installing MiniDapps

1. If you have no MiniDapps installed, download and save the MiniDapps you wish to use from

<https://github.com/minima-global/Minima/tree/dev-spartacus/mds/store/files>

2. Open the Command Line interface where Minima is running
3. Enter the following command, adding the file path to your saved Minidapp

```
mds action:install file:
```

### Example for the Terminal MiniDapp:

```
mds action:install file:C:\Users\YourName\Downloads\Terminal.mds.zip
```

You should see an output similar to below:

```
{
  "command": "mds",
  "params": {
    "action": "install",
    "file": "C:\\Users\\MyName\\Downloads\\Terminal.mds.zip"
  },
  "status": true,
  "response": {
    "installed": {
      "uid": "0xD0F8543C5A64099287021EDDC13A5773",
      "name": "Terminal",
      "icon": "favicon.ico",
      "version": "1.91",
      "description": "Terminal CLI for Minima"
    }
  }
}
```

## Uninstalling MiniDapps

1. Open the Minidapp
2. From the URL, copy the UID of the MiniDapp (see example UID in **bold** below)

<http://127.0.0.1:9003/0xD0F8543C5A64099287021EDDC13A5773/index.html>

3. Open the Command Line interface where Minima is running
4. Enter the following command, pasting the MiniDapp UID on the end:

```
mds action:uninstall uid:EnterMiniDappUID
```

For example, to uninstall the MiniDapp with the following URL:

<http://127.0.0.1:9003/0xBDF289090FD438B025F39A2D8E7F5D1E/index.html>

Use the following command from the Command Line

```
mds action:uninstall uid:0xBDF289090FD438B025F39A2D8E7F5D1E
```

## Testnet Minima Coins

To get Testnet Minima coins, please request these from the Minima Innovation Challenge channel in Discord and post your Minima address there.

# How to set up Maxima (for the MaxSolo MiniDapp)

To learn more about Maxima, please refer to the [Introduction to MiniDapps & Maxima](#) document.

Before using the MaxSolo MiniDapp to chat with friends, you must

1. Be running a Minima node
2. Set your Maxima Profile name
3. Create your Contacts by adding the Contact Address of your friends or sending your own Contact Address to your friends
4. Have the MaxSolo MiniDapp installed

**Note:** Only one person needs to create the connection, you will then both be connected to each other.

**Note:** Contact Addresses change periodically for privacy reasons.

Therefore, when creating Contacts, you must ensure that you are using a recent Contact Address from your friend (within 10 minutes).



## Setting your Maxima Profile

Your Maxima Profile is the name that your Maxima Contacts will see once you are connected with eachother.

1. Open the Command Line interface where Minima is running
2. Enter the following command, adding your name on the end:

### Example

```
maxima action:setname name:Alice
```

You should see an output similar to below:

```
{
  "command": "maxima",
  "params": {
    "action": "setname",
    "name": "Alice"
  },
  "status": true,
  "response": {
    "name": "Alice"
  }
}
```

## Finding and sharing your Contact Address

You may wish to find your own Contact Address to share with your friends.

By sharing your Contact Address with friends, they can add you as one of their Maxima Contacts enabling you to chat in the MaxSolo MiniDapp.

1. Open the Command Line interface where Minima is running
2. Enter the following command

```
maxima
```

You should see an output similar to below:

```
{
  "command": "maxima",
  "status": true,
  "response": {
    "logs": false,
    "name": "Alice",

    "publickey": "0x30819F300D06092A864886F70D010101050003818D00308189028181009645EF9
BB7B4A3E98B87C6C68C072903EE4379DA8DF18AE8082B879A60147043977114E00AA3AE2BBDE380D
356352E62D5FBCCB916C4F9EC27AC18D24B7A41F4ED26D63AD21578C421E0D303D7815253EF3EA6C
B9410B1F439E8528FC0DDC99724F42937D756B4439ABDCDB485000DE42F16861957761EEB88F44AE
A391D65EB0203010001",

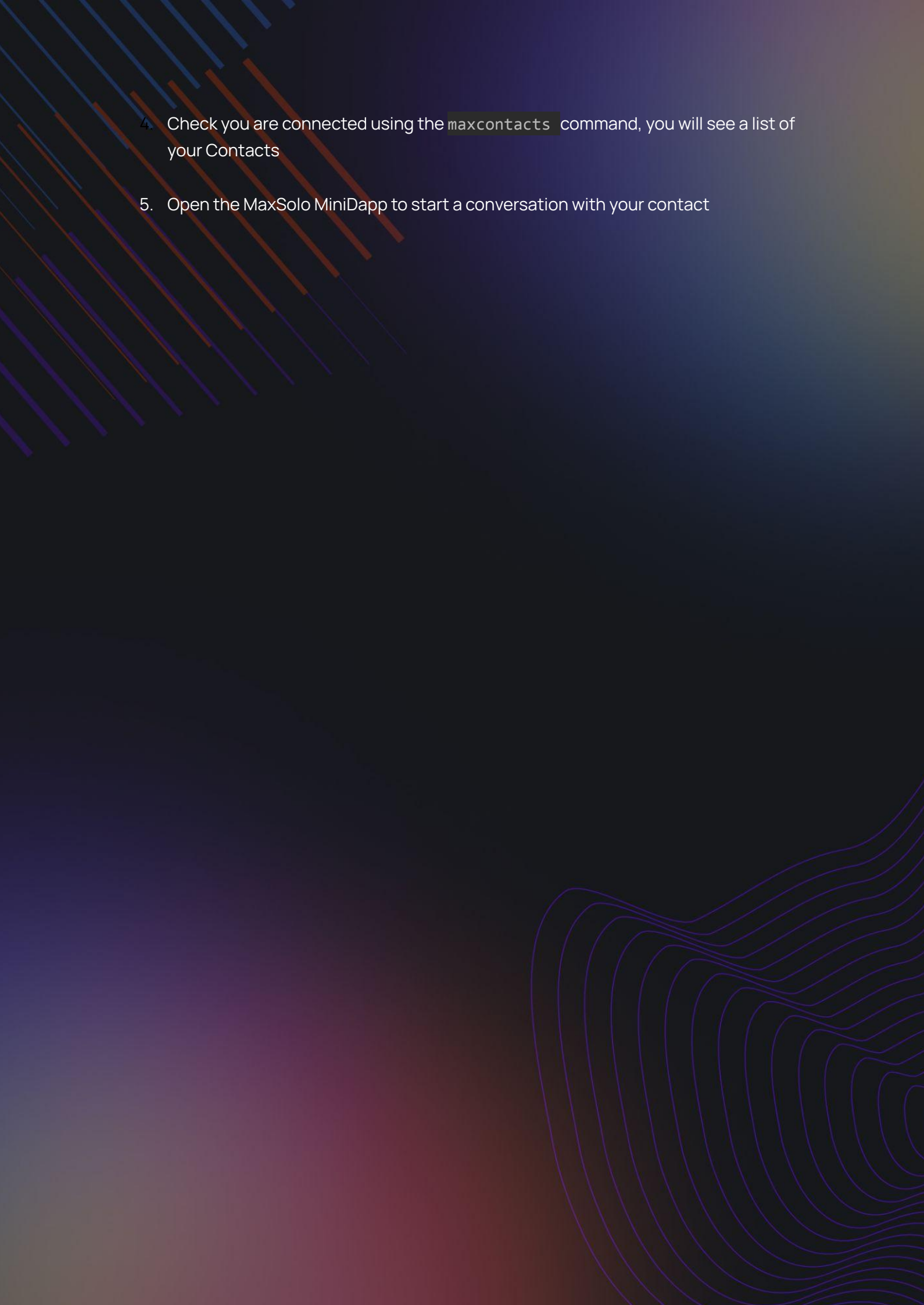
    "localidentity": "MxG18HGG6FJ038614Y8CW46US6G20810K0070CD00Z83282G60G15W5TUDRFD53
T65ZFHM6HG3WW0VE8DSTY3FH HBK0GAS7J9G18S23WTZH9Z0AKEN2NFF3G39YCD9ECBAVNJ5P2R2FJR17
YGCD4WRQ87QE9Q9MM7B91AU6447GD60UNG5957RPUKR5P845HUGSUGKKFZ3ESJ5P4UGKJFYQMMH1PYFED
MW2G03F45SB8C6ANEZFEN27K9BY3W7B5TC10608005FCUPAE@192.168.0.33:9001",

    "contact": "MxG18HGG6FJ038614Y8CW46US6G20810K0070CD00Z83282G60G15AU3QK5NKM3NW3YC
M4EZ99JMFQ5ZPK7ZC5CREZDC52W2NSRQWSJP8DHNC9DR2AP517RVET05JTW89BM1F6FBK2QN3YQ7CVJD
ARRBHY3Y08FQ99JSNW68D50KVD02UQKK8BJKMHAUAGG3JBCEFBZGYBPMJJRQAYQSYDH7KR19M2J4P9Z
ASNEP1240J7SUZB0MCK0DBWB34WS10608007M53YUH@78.141.235.153:9001"
  }
}
```

3. Copy the full **"contact:"** address (from the last line including the IP address) and share it with your friends (via a platform of your choice).

**Ensure your friend adds your Contact Address within 10 minutes of receiving it.**



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4. Check you are connected using the `maxcontacts` command, you will see a list of your Contacts
  5. Open the MaxSolo MiniDapp to start a conversation with your contact

## Adding a new Maxima Contact

Follow the steps below to add a friend as a Contact.

1. Ask your friend to send you their Contact Address
2. Copy it
3. Open the Command Line interface where Minima is running
4. Enter the following command, **pasting their Contact Address on the end**

```
maxcontacts action:add contact:
```

### Example:

```
maxcontacts action:add  
contact:MxG18HGG6FJ038614Y8CW46US6G20810K0070CD00Z83282G60G15AU3QK5NKM3  
NW3YCM4EZ99JMFQ5ZPK7ZC5CREZDC52W2NSRQWSJP8DHNC9DR2AP517RVET05JTW89BM1F6F  
BK2QN3YQ7CVJDARRBHY3Y08FQ99JSNW68D50KVD02UQKK8BJKMHAUAGG3JBCEFBZGYBPMJJ  
RQAYQSYDH7KR19M2J4P9ZASNEP1240J7SUZB0MCK0DBWB34WS10608007M53YUH@78.141.2  
35.153:9001
```

5. Return to your MiniDapp Home page
6. Open the MaxSolo MiniDapp to start a conversation with your new Contact!

## Checking the connection to your Contacts

You must be properly connected to your contacts to successfully send messages using the MaxSolo MiniDapp

To check you are connected:

1. Open the Command Line interface where Minima is running
2. Enter the following command

```
maxcontacts
```

You should see an output similar to below, for each contact, ensure the samechain parameter is true. **If it is false, you need to re-add your contact.**

```
{
  "command": "maxcontacts",
  "status": true,
  "response": {
    "contacts": [{
      "id": 1,
      "publickey": "0x30819F300D06092A864886F70D010101050003818D00308189028181008F2B605
4A85102087C7E43A3A06026804FE28723265C97CB8A6B3262BC54E0FDF6CE37854654A87841260D8
814F3286555FEEAF00BA039C5822C101C60C3410AC2AEC91ABC823C4A829CF2EF13208A717F5DE86
932B057356AECE8AC34AA3D0FE090C1ACD8ED583F820E3F566CFA907AA3FA5B53C0498C75BC3989F
9D6B57FC90203010001",
      "currentaddress": "MxG18HGG6FJ038614Y8CW46US6G20810K0070CD00Z83282G60G1KHEJ2RCN1F
DE843E66DP0E3DF43Q6QWAM5GJ4RU1A555CNR0SA5UR1YCBJ4P0PA3BYBFNGM41FRRH0GM91KANT3JD7
KR32Z03WNFD4BK1JG7SCDZHEDG8F6U1MUFR35UJJPWN755VDSCH97GNP9TMFFWJ5A42RK57Z6H2D097S2
RH4MS3MNRJBNE1Z1B9TTU4SVM1H4FSH876C10608007FDQQ94@31.125.188.214:5001",
      "myaddress": "MxG18HGG6FJ038614Y8CW46US6G20810K0070CD00Z83282G60G15R14V15SH1TU88R
629S9FDK52J5NBE361QH86D7NEK0UVY4MFC5K83F1FNET3G93H5DEYWWN5DNJ15WMCV8JSR0F7SW6AYE
U0FYRA46Z99HMCU0ZNPC33G6C2VR4HY5JYCQJRMYPQGDPTQHV7VAJDGY89TTU1W6WH3V96QJJ31ZCQM
JNGQJ6M10TCJU5D4F76F4FMMTZGDYS106080061G8EKG@178.170.39.96:9001",
      "Lastseen": 1656174927269,
      "date": "Sat Jun 25 17:35:27 BST 2022",
      "extradata": {
        "name": "Bob",
        "minimaaddress": "MxG086JH4F7R41CNEW5ZJA4VVBET0H66AQZPC3UJ42SFPBYAC999U7EVBNTARKC
",
        "topblock": "30664",
        "checkblock": "30614",
        "checkhash": "0x000000259DF90A73F54A36C28FC38009DA30D99F2D6E05E824BD6ED5C3191A62"
      },
      "chaintip": "65319",
      "samechain": true
    }
  ],
}
```