MinerAgent Deployment Guide for Linux (Ubuntu)

System Requirements

- Operating System: Ubuntu Server 22.04 x86_64 or higher
- Processor: 4 cores or more
- Memory: 8 GB RAM or more
- Storage: 60 GB or more

Deployment Steps

All steps below should be performed in the `Terminal` .

1. **Configuration Environment**

Before deploying MinerAgent, you need to install the required dependencies by running the following commands:

```
sudo apt update
sudo apt install git
sudo apt install jq
```

2. **Download MinerAgent**

If you want to install MinerAgent in a specific directory, use the `cd` command to navigate your desired location. This guide uses the default directory (`cd ~`) as the installation location.
Run the following command to download MinerAgent:

```
git clone https://github.com/viabtc/mineragent.git
```

After downloading, navigate to the following directory:

```
cd mineragent/linux
```

3. **Initial Startup of MinerAgent**

For first-time deployment, you can use the `start.sh` script in the current directory to start the MinerAgent service in one step, and automatically set up cron to periodically monitor whether the agent service is running properly.

Basic Usage:
To start the agent for a specific coin (e.g., `BTC` or `LTC`):

```
/start.sh btc
```

or

```
/start.sh ltc
```

Advanced Usage (configurable mining pool server)
You can configure up to three mining pool server addresses.
The format of mining pool server address: `host:port:[ssl|nossl]`

- `host`: Mining pool server address (e.g., `btc.viabtc.com`)
- `port`: Mining pool server port (e.g., `3333`)
- `[ssl|nossl]`: Whether the mining pool server is SSL-encrypted

Example:
To start the BTC agent and configure it with two pool server addresses:

```
./start.sh btc btc.viabtc.com:3333:nossl btc-ssl.viabtc.io:551:ssl
```

4. **Connecting Miners**
Miners should connect to the agent service using `IP:Port`.
IP is the `server IP` where the agent is running. The default ports for the BTC agent are `[3333 / 443 / 25]`. The default ports for the LTC agent are `[5555 / 446 / 26]`. You only need to use one of the listed ports.
How to check `server IP`:
Run:

```
ip -a
```

You will see output similar to:

```
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
 link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
 inet 127.0.0.1/8 scope host lo
 valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
 link/ether 08:00:27:0e:63:9b brd ff:ff:ff:ff:ff:ff
 inet 192.168.1.100/24 brd 192.168.1.255 scope global dynamic noprefixroute eth0
 valid_lft 86311sec preferred_lft 86311sec
```

You should look for your network interface, which is usually `eth0` (wired connection) or `wlan0` (wireless connection).
Within the details of these interfaces, find the line that begins with `inet`.

```
inet 192.168.1.100/24
```

Here, `192.168.1.100` is your `server IP` address.
In the miner's configuration page, set the BTC mining URL as: `stratum+tcp://192.168.1.100:3333`