

# Install and Configure xmrig for Monero XMR Crypto Mining

Ensure you have created and activated an account on <https://minergate.com>. You will need your minergate.com UserID before proceeding.

## Install and Configure xmrig

Create a directory for xmrig under /opt:

```
mkdir /opt/xmrig
```

Download attached [xmrig-linux.zip](#) and extract to the **/opt/xmrig** directory you created above:

```
unzip xmrig-linux.zip -d /opt/xmrig
```

Edit /opt/xmrig/config.json file and under the following section:

```
"pools": [  
  {  
    "algo": null,  
    "coin": null,  
    "url": "xmr.pool.minergate.com: 45700",  
    "user": "12345678",  
    "pass": "x",  
    "rig-id": null,  
    "nicehash": false,  
    "keepalive": false,  
    "enabled": true,  
    "tls": false,
```

```
        "tls-fingerprint": null,  
        "daemon": false,  
        "socks5": null,  
        "self-select": null  
    }  
],
```

set the **123456** in the "**user**": "**12345678**" section to your Minergate.com UserID.

Make /opt/xmrig/xmrig executable:

```
chmod +x /opt/xmrig/xmrig
```

Move the **xmrig.service** file that was included in the xmrig-linux.zip file to /etc/systemd/system:

```
mv /opt/xmrig/xmrig.service /etc/systemd/system/
```

## Configure CPU Quota

Adjust the CPU Quota that xmrig will use on your system by editing the **/etc/systemd/system/xmrig.service** file:

```
vi /etc/systemd/system/xmrig.service
```

Insert the following line:

```
CPUQuota=50%
```

after the following line:

```
ExecStart=/opt/xmrig/xmrig --config=/opt/xmrig/config.json --log-file=/opt/xmrig/xmrig.log
```

So the whole service looks like below:

```
[Unit]  
Description=XMRig Monero Miner  
After=network.target  
  
[Service]  
User=xmrig  
Group=xmrig
```

```
StandardOutput=journal
```

```
StandardError=journal
```

```
ExecStart=/opt/xmrig/xmrig --config=/opt/xmrig/config.json --log-file=/opt/xmrig/xmrig.log
```

```
CPUQuota=50%
```

```
Restart=always
```

```
[Install]
```

```
WantedBy=multi-user.target
```

Adjust the percentage from the default **50%** to a level appropriate for your system.

Save the **/etc/systemd/system/xmrig.service** file.

## Create User for xmrig

Create a user for xmrig:

```
sudo adduser xmrig
```

Set a password for the xmrig user and answer the resultant prompts

Give xmrig user root privileges:

```
usermod -G sudo xmrig
```

## Configure Logging

Create **/opt/xmrig/xmrig.log** file:

```
touch /opt/xmrig/xmrig.log
```

Set **/opt/xmrig/xmrig.log** file permissions:

```
chmod 664 /opt/xmrig/xmrig.log
```

Set **/opt/xmrig/xmrig.log** file owner to the xmrig user created earlier:

```
chown xmrig:xmrig /opt/xmrig/xmrig.log
```

# Enable and Start xmrig Service

Enable the xmrig service:

```
sudo systemctl enable --now xmrig
```

Start the xmrig service:

```
sudo systemctl restart xmrig
```

Ensure xmrig service has started:

```
systemctl status xmrig
```

If the service is started, the output should be similar to below:

```
● xmrig.service - XMRig Monero Miner
   Loaded: loaded (/etc/systemd/system/xmrig.service; enabled; vendor preset: enabled)
   Active: active (running) since Fri 2021-02-19 21:17:30 UTC; 11min ago
 Main PID: 7516 (xmrig)
    Tasks: 14 (limit: 4915)
   CGroup: /system.slice/xmrig.service
           └─7516 /opt/xmrig/xmrig --config=/opt/xmrig/config.json --log-
file=/opt/xmrig/xmrig.log
```

View xmrig service logs:

```
journalctl -u xmrig
```

View xmrig logs:

```
tail -f /opt/xmrig/xmrig.log
```

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