



SUB1X Masternode Setup Guide: Windows Version

What you will need for this guide:

- 1) Local computer with Windows, MacOS or Linux.
- 2) Remote server – VPS [Vultr.com or AWS for instance]
- 3) 20 Sub1X

Version 1.1

Setting up a VPS:

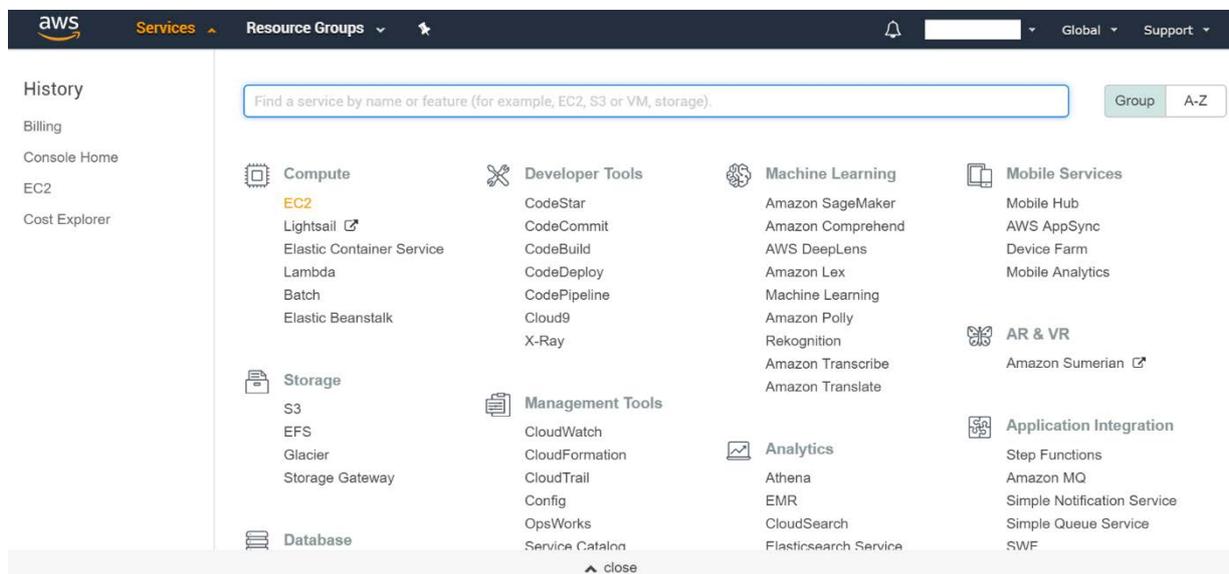
For this tutorial, we will use AWS; It offers a 12-months free tier, with 750 hours of free EC2 instances every month.

Register an account with AWS: <https://aws.amazon.com/>

Once this is done, register a credit card on your account and wait 24 hours. This is mandatory, as Amazon will then verify your account.

After your account is validated, you will now have access to AWS services.

Click on Services, and select **EC2**



Scroll down and click on **Launch Instance**

Create Instance

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.



In this page, you will be able to choose the Operating system of your instance. For this tutorial, we will use **Microsoft Windows Server 2016 Base**, as it's eligible for the free tier AWS.



Microsoft Windows Server 2016 Base - ami-21587144

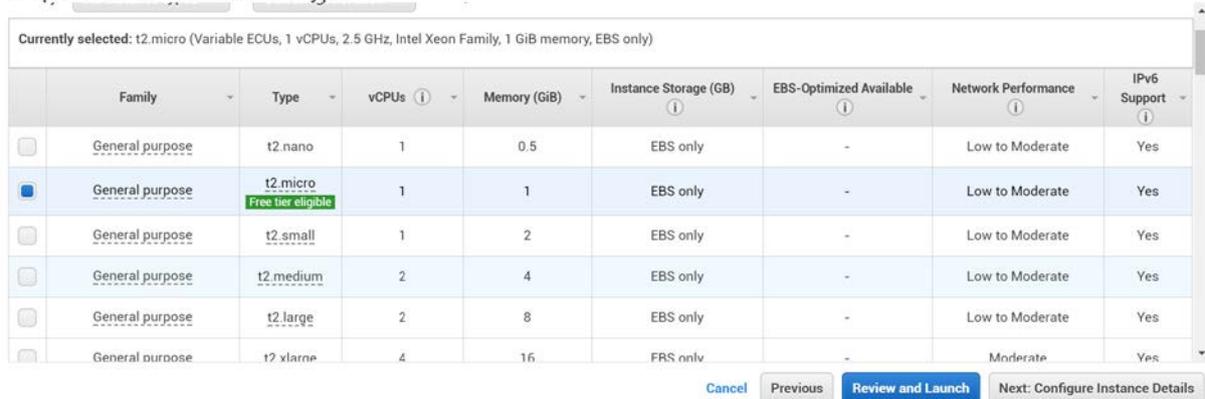
Windows Microsoft Windows 2016 Datacenter edition. [English]

Free tier eligible Root device type: ebs Virtualization type: hvm

Select 64-bit

Be sure t2.micro is still selected if you want to get the free AWS service and then click on **Review and Launch**.

Step 2: Choose an Instance Type



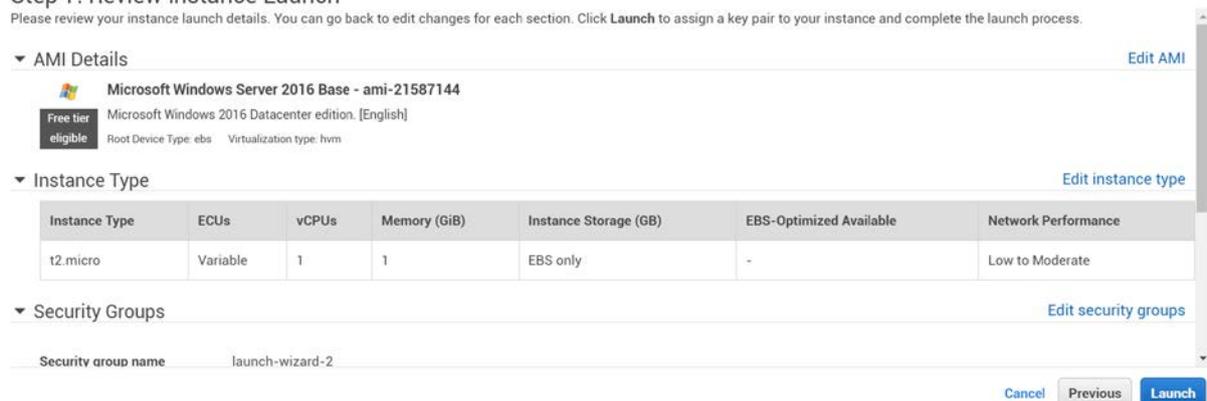
Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.xlarge	4	16	FRS only	-	Moderate	Yes

Cancel Previous **Review and Launch** Next: Configure Instance Details

Again, review your configuration, and then click on **Launch**

Step 7: Review Instance Launch



Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

AMI Details [Edit AMI](#)

Microsoft Windows Server 2016 Base - ami-21587144

Free tier eligible Microsoft Windows 2016 Datacenter edition. [English]

Root Device Type: ebs Virtualization type: hvm

Instance Type [Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

Security Groups [Edit security groups](#)

Security group name launch-wizard-2

Cancel Previous **Launch**



You will then be prompted to select or create a new key pair. This key will be used to encrypt the login password of your instance, so don't lose it.

Select an existing key pair or create a new key pair ✕

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Key pair name

... You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

Here, we will create a new one named **sub1x**, but you can name it whatever you want, and then download this key Pair.

Once the key pair is downloaded (in a .pem format), you can launch your instance.

On your main dashboard, tick your newly created instance, and click on **Connect**.

<input type="button" value="Launch Instance"/> <input type="button" value="Connect"/> <input type="button" value="Actions"/>							
Filter by tags and attributes or search by keyword							
Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Check	Alarm Status	Public DNS (IPv4)
<input checked="" type="checkbox"/>	i-08b5922dd9d7e81...	t2.micro	us-east-2b	running	2/2 chec...	None	ec2-18-218-30-73.us-e



Get the Instance password with the saved key pair .pem file, and then download the remote desktop file.

Connect To Your Instance ✕

You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below:

[Download Remote Desktop File](#)

When prompted, connect to your instance using the following details:

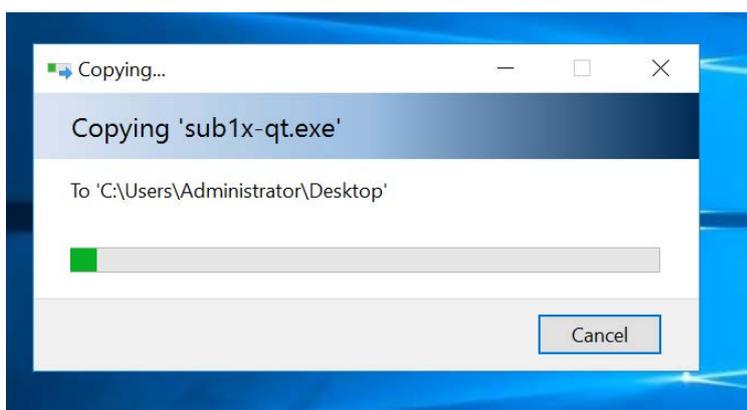
Public DNS	ec2-18-218-30-73.us-east-2.compute.amazonaws.com
User name	Administrator
Password	Get Password

If you've joined your instance to a directory, you can use your directory credentials to connect to your instance.

If you need any assistance connecting to your instance, please see our [connection documentation](#).

[Close](#)

Once you are connected inside your VPS, you can copy and paste the wallet directly from your main computer to your remote instance.

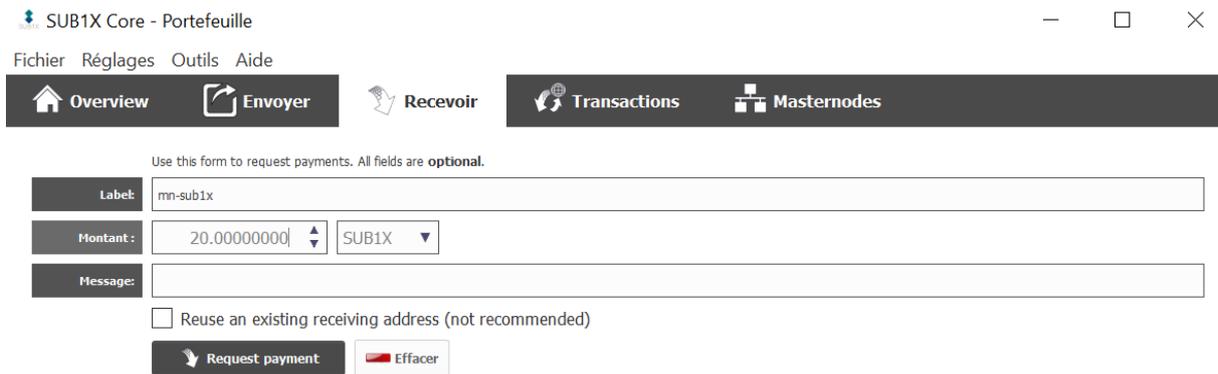


Wait for the transfer to finish, and then run the wallet.

Configuring the master wallet:

This part will be done on the master wallet, on your local computer:

Start the sub1x wallet, and let's create an address that will hold the Masternode collateral. Go to the Receive tab, add a label, and put 20 sub1x as the amount. Then press Request payment.



Use this form to request payments. All fields are **optional**.

Label: mn-sub1x

Montant: 20.00000000 SUB1X

Message:

Reuse an existing receiving address (not recommended)

Request payment Effacer

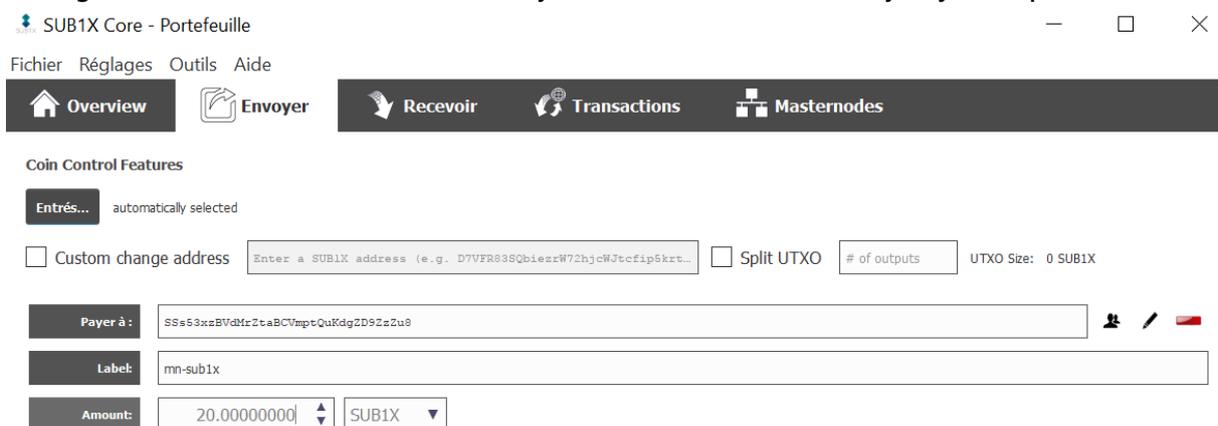
This will generate a window with the newly created address. Copy the address.



Demander un paiement à mn-sub1x

Information de paiement
 URI: sub1x:SSs53xzBVdMrZtaBCVmpTQuKdgZD9ZzZu8?amount=20.00000000&label=mn-sub1x
 Adresse: SSs53xzBVdMrZtaBCVmpTQuKdgZD9ZzZu8
 Montant: 20.00000000 SUB1X
 Label: mn-sub1x

Now go to the Send tab, and send exactly 20 sub1x to the address you just copied.



SUB1X Core - Portefeuille

Fichier Réglages Outils Aide

Overview Envoyer Recevoir Transactions Masternodes

Coin Control Features

Entrés... automatically selected

Custom change address Enter a SUB1X address (e.g. D7VFR83Sqb1ezrW72hjcWJtcfip5krt... Split UTXO # of outputs UTXO Size: 0 SUB1X

Payer à: SSs53xzBVdMrZtaBCVmpTQuKdgZD9ZzZu8

Label: mn-sub1x

Amount: 20.00000000 SUB1X

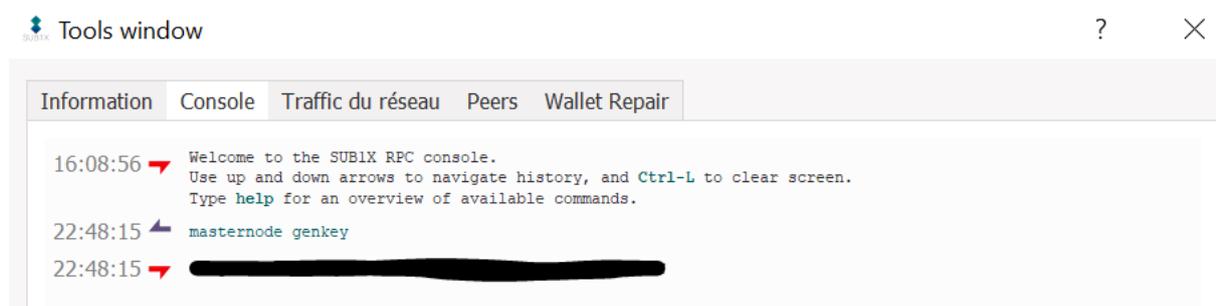
Create a new text file, where you will store all the data for the Masternode.
You can use this template:

```
MN Label: <Masternode_name>  
Collateral address: <collateral_address>  
Masternode Key: <Masternode_genkey>  
Public IP: <VPS_ip_address>  
MN conf line: <configuration_line>
```

```
rpcuser=<Random username>  
rpcpassword=<Random password>  
rpcallowip=127.0.0.1  
listen=1  
server=1  
daemon=1  
logtimestamps=1  
maxconnections=256  
masternode=1  
externalip=<VPS_ip_address>  
bind=<VPS_ip_address>  
masternodeaddr=<VPS_ip_address>:43172  
masternodeprivkey= <Masternode_genkey>
```

Open the debug console of the wallet [**Tools** then **Debug Console**] and enter this command:

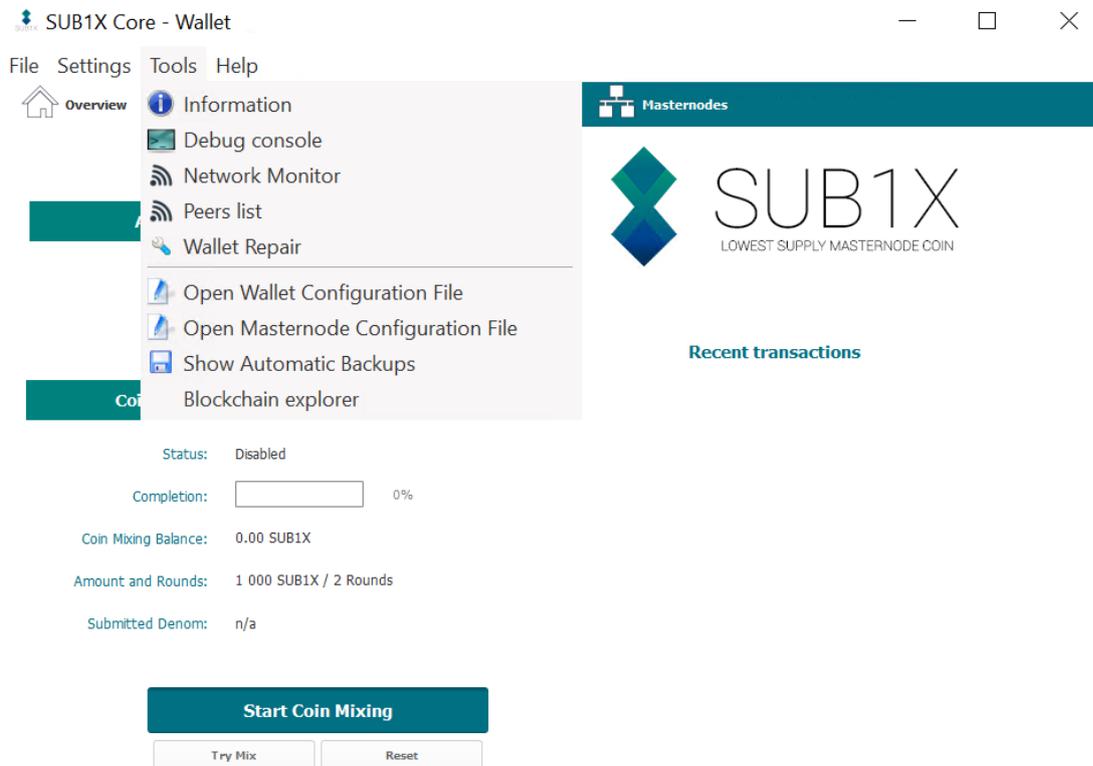
```
masternode genkey
```



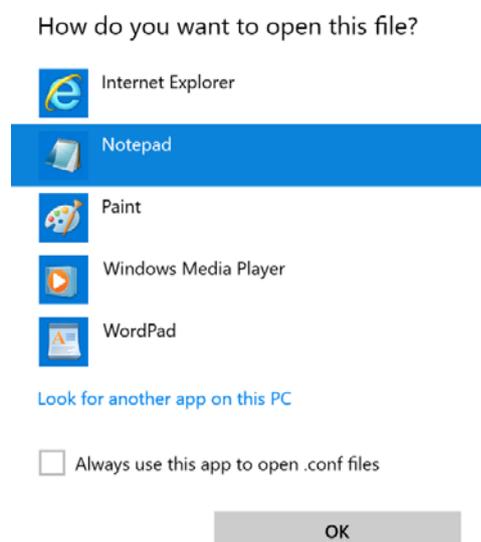
Copy that key and save it in your text file.

Configuring the Masternode wallet:

On your virtual desktop, open the Sub1X wallet and go to **Open Wallet Configuration File**



And select Notepad for editing the file





And write the following from the text file you made earlier:

```
rpcuser=<Random username | Same as the Master wallet>
rpcpassword=<Random password | Same as the Master wallet >
rpcallowip=127.0.0.1
listen=1
server=1
daemon=1
logtimestamps=1
maxconnections=256
masternode=1
externalip=<VPS_ip_address>
bind=< VPS_ip_address>
masternodeaddr=< VPS_ip_address>:43172
masternodeprivkey= <Masternode_genkey>
```

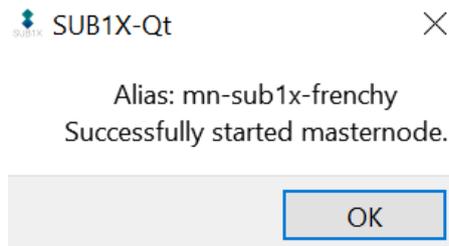
Press **ctrl+s** once you are done, and close the file.

Let it sync for a few minutes, and you can now close the virtual desktop. As long as you don't shut it down, it will keep running the wallet in the cloud.

Now go back to the master wallet, and start the Masternode by clicking on **Start Alias**.



If everything is set correctly, you should get this message:



Else, read the error message and track back your mistake.

The first Masternode reward should then come after a while, be patient and wait for a few hours before tweaking anything.

If you have multiple Masternodes to configure, repeat these steps and create as many instances as you need masternodes.

For any queries, visit the Sub1X website: <https://sub1x.org/>

Or ask on the telegram channel: https://t.me/joinchat/FeDyZg6MbSGTo_PWpzx0TA

Thank you for reading.