



# **InstaDEX Master Wallet and Masternode Deployment Guide with Linux VPS**

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## **Requirements:**

- **Ubuntu OS**
- Local computer with Windows or Mac for Master(cold) wallet
- Putty to configure and setup VPS
- 10000 INDEX coins



# Setting up VPS on Vultr:

- Register an account with Vultr: <https://www.vultr.com/?ref=7312877>  
Or use existing account if you have one.

## 1) Create a new instance by clicking on the '+' button

Servers Sort by: Location

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+

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<input type="checkbox"/>	Server	OS	Location	Charges	Status
No active instances — <a href="#">deploy one now!</a>					

## 2) Select Location (is of your own preference)

1 Server Location

[All Locations](#) [America](#) [Europe](#) [Australia](#) [Asia](#)

<b>Tokyo</b> Japan	<b>Singapore</b> Singapore	<b>Amsterdam</b> Netherlands	<b>Paris</b> France
<b>Frankfurt</b> Germany	<b>London</b> United Kingdom	<b>Atlanta</b> United States	<b>Dallas</b> United States
<b>Seattle</b> United States	<b>Chicago</b> United States	<b>Los Angeles</b> United States	<b>Miami</b> United States
<b>New York (NJ)</b> United States	<b>Silicon Valley</b> United States	<b>Sydney</b> Australia	

## 3) Select Ubuntu 14.04, 16.04 or 18.04 version

2 Server Type

[64 bit OS](#) [32 bit OS](#) [Application](#) [Upload ISO](#) [ISO Library](#) [Backup](#) [Snapshot](#)

<b>CentOS</b> Select Version	<b>CoreOS</b> Stable x64	<b>Debian</b> Select Version	<b>Fedora</b> Select Version
<b>FreeBSD</b> Select Version	<b>OpenBSD</b> 6 x64	<b>Ubuntu</b> 14.04 x64	<b>Windows</b> Select Version



#### 4) Select Server Size with at least 1024MB Memory

3 Server Size

20 GB SSD	25 GB SSD	40 GB SSD	60 GB SSD
<b>\$2.50/mo</b> \$0.004/h	<b>\$5/mo</b> \$0.007/h	<b>\$10/mo</b> \$0.015/h	<b>\$20/mo</b> \$0.03/h
1 CPU 512MB Memory 500GB Bandwidth	1 CPU 1024MB Memory 1000GB Bandwidth	1 CPU 2048MB Memory 2000GB Bandwidth	2 CPU 4096MB Memory 3000GB Bandwidth

#### 5) Skip to Section 7 and set a server hostname and label (at your discretion)

7 Server Hostname & Label

Enter server hostname

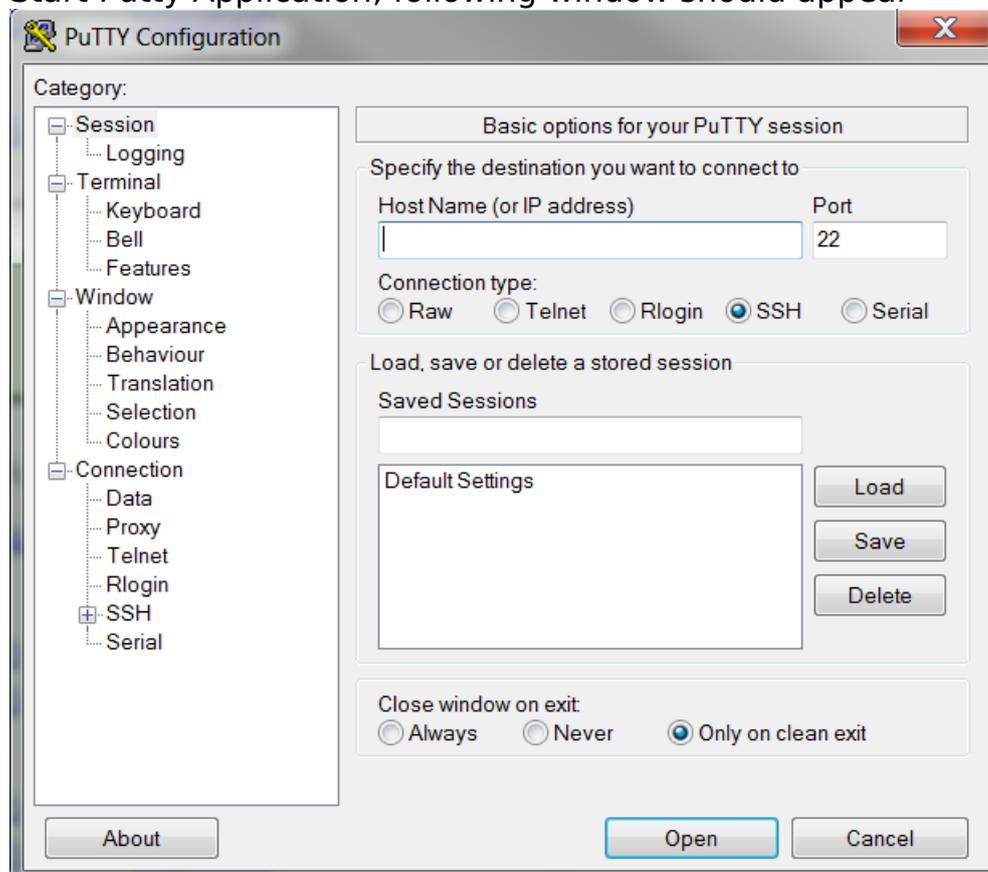
Enter server label

#### 6) Click **Deploy Now**

Servers Qty:  Summary: **\$5.00/mo** (\$0.007/hr)

## Accessing your VPS

- First download Putty to access your VPS instance: <http://putty.org/>
- Start Putty Application, following window should appear





- Open your **Vultr** panel <https://my.vultr.com> and access your instance Overview, note **IP Address** and **Password**, use them to connect to server via **Putty** application, IP address also will be required to setup InstaDEX wallets(local and on VPS):

< **Overview** Usage Graphs Settings

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Bandwidth Usage

**0.00 GB** /1000GB

Location:  London

IP Address: 45.77.129.123 

Username: root

Password: .....  

- Click the **Open** button and the console will open. A message may appear the first time, press **Yes**.

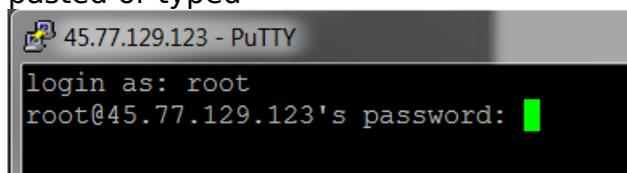
Specify the destination you want to connect to

Host Name (or IP address)	Port
<input type="text" value="45.77.129.123"/>	<input type="text" value="22"/>

Connection type:

Raw  Telnet  Rlogin  SSH  Serial

- Enter server login credentials noted from **Vultr** instance overview. You cannot Ctrl+V to paste in the console; either Right-click on mouse or use Shift+Insert. You may not see it when you type it, just press enter once pasted or typed



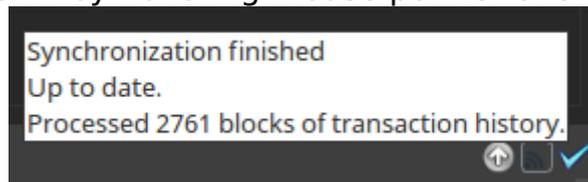


## Configuring the Master(cold) Wallet on Local PC:

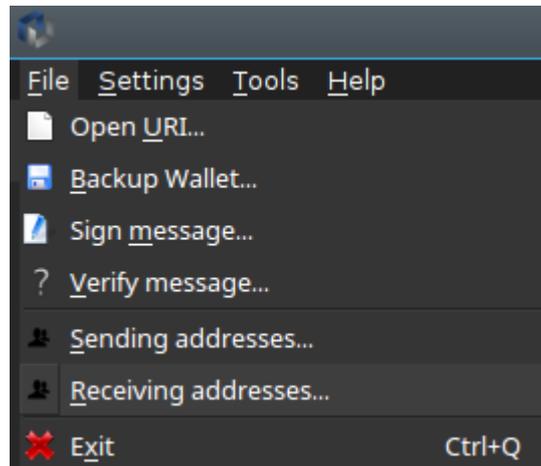
- Download InstaDEX Wallet version for your system  
Windows wallet:  
<https://cdn.discordapp.com/attachments/460980154550976523/481169170457690143/instdex-qt-1003.zip>  
  
Mac wallet:  
<https://s3.amazonaws.com/walletz/InstaDEX-Ot-1.0.0.3-MacOS.dmg>



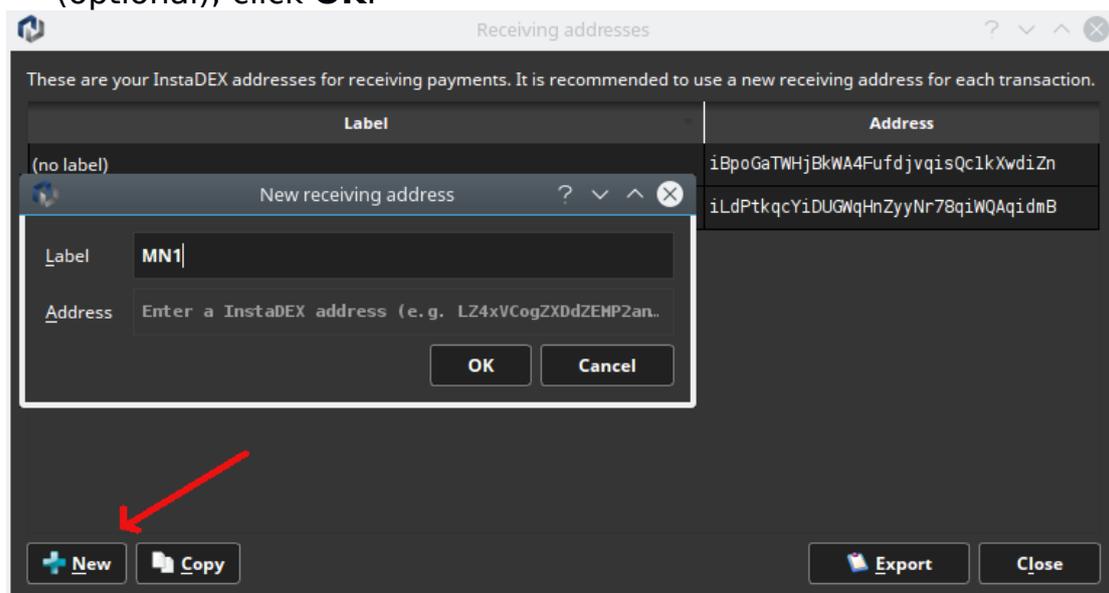
- Unpack and start InstaDEX Wallet, wait until it syncs to the network, you can check it by hovering mouse pointer over right bottom icons:



- Create/use address through [**File**→**Receiving addresses...**]

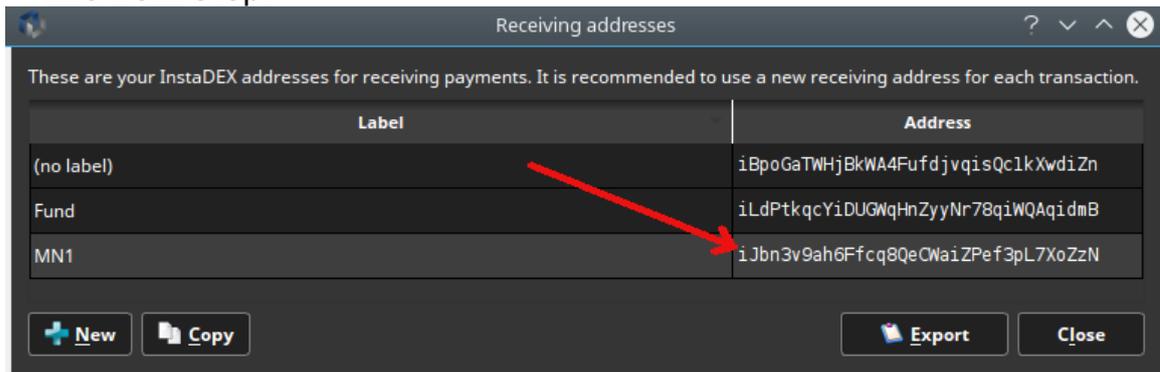


- To create new receiving address Click New, then type in label (optional), click **OK**:

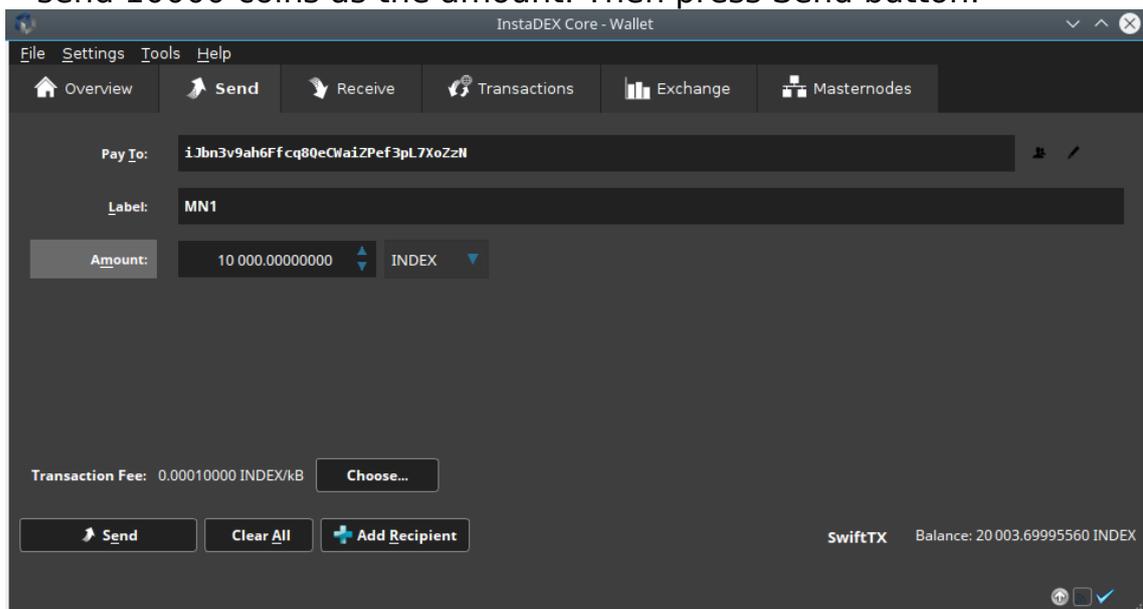




- You will use generated address to receive 10000 collateral coins in the next step:



- Go to the Send tab, in 'Pay to' insert generated above address, send 10000 coins as the amount. Then press Send button:



- Create a new text file, for storing all the data for the Masternode. You can use template below:  
**MN Label:** <put here desirable MN name, i.e. MN1>  
**Collateral Address:** <save here address from previous step for history>  
**Masternode Privkey:** <Masternode Privkey will be provided during VPS installation>  
**Public IP:** <IP address of VPS server to be received in next steps>  
**TX Hash:** <collateral transaction hash>  
**TX ID:** <collateral transaction hash id>
- Go to [**Tools→Debug console**] and enter next command(you might wait a bit until transaction gets enough confirmations):  
**masternode outputs**
- Save **txhash** and **outputidx** values as **TX Hash** and **TX ID** in text file



## Deploying InstaDEX Masternode on Linux VPS

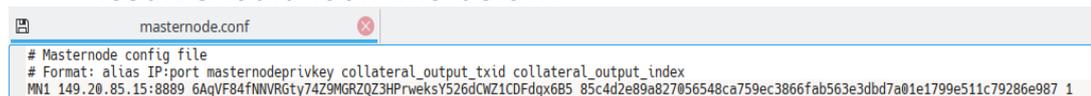
- Connect to VPS using Putty
- Execute following commands in console one at a time(copy and paste each following **ENTER** press):

```
sudo apt-get -y install wget
wget -O install.sh https://bit.ly/2N61K8B
chmod +x install.sh
./install.sh
```

- Script will now update the system, download and install InstaDEX distribution, create required configuration file and start InstaDEX daemon under 'index' user
- Script will provide Masternode privkey string
- Open Masternode configuration file [**Tools→Open Masternode Configuration File**] on local PC wallet(cold)
- And add the Masternode configuration line in format as per below (values separated by space, except IP Address and port)

<MN label> <VPS IP address>:8889 <Masternode privkey> <TX Hash> <TX ID>

Result should look like below:



```
masternode.conf
# Masternode config file
# Format: alias IP:port masternodeprivkey collateral_output_txid collateral_output_index
MN1 149.20.85.15:8889 6AgVF84fNnVRGty74Z9MGRZQZ3HPwEksY526dCWZ1CDFdGx6B5 85c4d2e89a827056548ca759ec3866fab563e3dbd7a01e1799e511c79286e987 1
```

- Save file, restart InstaDEX wallet
- Save text file with **Masternode Privkey** and the rest of the information in secure place
- Once InstaDEX daemon at VPS is in sync(it might take some time to sync, depending on the blockchain size), start MN from local(cold) wallet, go to [**Tools→Debug console**] and enter next command:  
**masternode start-all**
- To control InstaDEX Masternode on VPS **ALL** actions have to be performed under 'index' user shell, change shell to 'index' user:  
**sudo -iu index bash**  
or  
**sudo su - index**



- To check if InstaDEX Masternode is synchronized with the network use:  
**instadex-cli mnsync status**

```
index@MN-vps:~$ instadex-cli mnsync status
{
  "IsBlockchainSynced" : true,
  "lastMasternodelist" : 1530245051,
  "lastMasternodeWinner" : 1530245069,
  "lastBudgetItem" : 0,
  "lastFailure" : 0,
  "nCountFailures" : 0,
  "sumMasternodelist" : 20,
  "sumMasternodeWinner" : 1198,
  "sumBudgetItemProp" : 0,
  "sumBudgetItemFin" : 0,
  "countMasternodelist" : 2,
  "countMasternodeWinner" : 6,
  "countBudgetItemProp" : 5,
  "countBudgetItemFin" : 5,
  "RequestedMasternodeAssets" : 999,
  "RequestedMasternodeAttempt" : 0
}
index@MN-vps:~$
```

- Use command below to get more information about InstaDEX Masternode state on VPS:  
**instadex-cli getinfo**

```
index@MN-vps:~$ instadex-cli getinfo
{
  "version" : 1000002,
  "protocolversion" : 70714,
  "walletversion" : 61000,
  "balance" : 0.000000000000000000,
  "obfuscation_balance" : 0.000000000000000000,
  "blocks" : 2832,
  "timeoffset" : 0,
  "connections" : 20,
  "proxy" : "",
  "difficulty" : 10.77117065999999923,
  "testnet" : false,
  "moneysupply" : 3258492.95871258992701769,
  "keypoololdest" : 1530244710,
  "keypoolsize" : 1001,
  "paytxfee" : 0.000000000000000000,
  "relayfee" : 0.000100000000000000,
  "staking status" : "Staking Not Active",
  "errors" : ""
}
index@MN-vps:~$
```



## Additional useful commands and information:

Please note that **ALL** actions have to be performed under 'index' user shell:

- Execute shell under 'index' user:  
**sudo -iu index bash**  
or  
**sudo su - index**
  
- View/Edit configuration file:  
**nano /home/index/.instadex/instadex.conf**
  
- Watch real-time log file (Ctrl-C to interrupt)  
**tail -f /home/index/.instadex/debug.log**
  
- **instadexd** and **instadex-cli** can be executed manually:  
  
1) Acquiring information from InstaDEX Masternode daemon:  
**instadex-cli getinfo**  
**instadex-cli masternode status**  
**instadex-cli mnsync status**  
  
2) Stop InstaDEX Masternode daemon:  
**instadex-cli stop**  
  
3) Start InstaDEX Masternode daemon:  
**instadexd -daemon**