## with Windows CMD/PowerShell



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4 min read

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To get the most out of the GridPane platform, you'll often find the need to use SSH to log into your server and use our GPCLI (GridPane Command Line Interface) commands. GPCLI a powerful set of tools that allow you to customize not only your server but your WordPress installations as well.

For security reasons, SSH access is only available with the use of an SSH key and is restricted to the root user.

WARNING: The Peter Parker Principle applies here!

With great power comes great responsibility.

Not familiar with Spider-Man? In simple terms – the root user can do anything including deleting and breaking everything. Just a few bad keystrokes and everythican go away. Be careful with the commands you use and never share your Private



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SSH Key with anyone!

## Step 1: Check if ssh client is installed

Make sure you have the latest updates of Windows if that is not possible, then at least you should have the Windows 10 Fall 2018 build update. From this update, Windows 10 now comes with a built-in ssh client!

To check if the client is working, fire up a Powershell or CMD window and type in this

```
ssh
```

If the client is installed, you should get the following reply:

If you do not get the above result please check if you have the above-mentioned update



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#### Step 2: Create Your SSH Key Pair

Type the following command at the prompt then press enter.

```
ssh-keygen -b 4096
```

When prompted for the file in which to save the key, press enter. The default location will be created.

Keep default values and no need for a pass phrase.

Congratulations! You now have an SSH key. The whole process will look like this:

```
C:\Users\mafur>ssh-keygen -b 4096
Generating public/private rsa key pair.
Enter file in which to save the key (C:\Users\mafur/.ssh/id_rsa):
C:\Users\mafur/.ssh/id_rsa already exists.
Overwrite (y/n)? y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in C:\Users\mafur/.ssh/id_rsa.
Your public key has been saved in C:\Users\mafur/.ssh/id_rsa.pub.
The key fingerprint is:
5HA256:89FUK1MNrNyYvHNi+0oae0hDULkV+8ka5I05Ds9slb8 mafur@DESKTOP-51QFD2R
The key's randomart image is:
+---[RSA 4096]----+
           . .+...
. =*=.
           0=*0.0
          S.o B.B
           -0+0=
            .*o
           o..o.E
     [SHA256]--
C:\Users\mafur>
```

What does all this mean?

The key generating process has created two files.



id\_rsa (this is your private key, do not lose or give this to anybody!)

id\_rsa.pub (this is your public key, you copy this to servers or give to others to place onto servers for you to authenticate against using your private key)

These keys are store by default in

```
C:Users<WINUSER>/.ssh/
```

The path might be different but you will always see it when generating the SSH Key

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## Step 3: Copy Your Public Key To Your Clipboard

We will use our good old notepad to get the contents of our public SSH key

You will need to run the following command. Remember to replace WINUSER with your own user

```
notepad C:Users<WINUSER>/.ssh/id_rsa.pub
```

The output will look similar to this

```
1NcmADIBSp/mJi8F0bBo6XoMJAWFs/xgzsikXcmc4eukueo0Au3KyOjrsZvqsu/unNJ
HA256:89FUK1MNrNyYvHNi+0oae0hDULkV+8ka5I05Ds9slb8 mafur
                                                         fzwrSDhSMM510+mWnCKXwFfXjYsXq1Q+BFX/DdNCji
he key's randomart image is:
                                                         +bi4xPG4FWBJEMwetcgH/h3Bf7GOtaTm2u9iJqWT/NLGrSPQf9jc6PtpvkAZ6wcEzUW
  [RSA 4096]----+
                                                        {\tt EWszR4t38eiFuNLn71eFceL41jhJLZCc7MDU/EnwjMKK0/D20qV5wwWB4k5r2npowQf}
                                                        uIt1Ru4IAkPtT3TrsmE05ida80AtmW5H5KWiqyb9VmfkffWgNioPBdhoFf9v8rxedYK
                                                        rfX5jgo/QRLwP4b7cDH3a
         0=*0.0
                                                         +LbWiNVNU3LzVzpfLEHDfwZxG3C2SmBArzrbRydNo5yYmriIVA0KvdXN0kgWB9lduaI
                                                        NT5gV/YaAKozWop6EbzlhnKn9ckIJoauBGmS2XPtq9d476BWyYR95Sdgu7ZmlaMjNkI
                                                        qZDewUImF1t3j77evQpVQn8GMYkmpakzs
                                                         +iItKEVpO/LJ19y9+jCjfCN7ZikGiycXntl8ewSmkPx0ZbRlYdNx4Zw5qK4mrWGtCQi
                                                        epOSkgM17hDoxwQ== mafur@DESKTOP-51QFD2R
:\Users\mafur>notepad C:\Users\mafur/.ssh/id_rsa.pub
:\Users\mafur>
```

Now type CTRL+A then CTRL+C to copy the contents from notepad

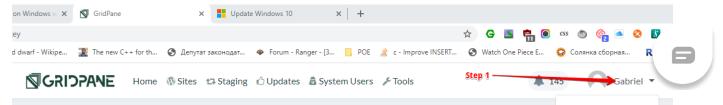
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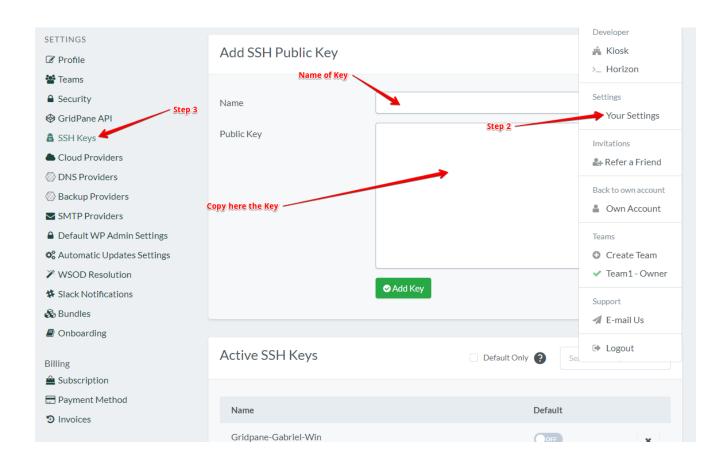
# Step 4: Add Your Public Key To Your GridPane Settings

Highlight the output of the previous command and press enter. This copies the data to your clipboard. You may find it useful to paste this into a Notepad document while you log into your GridPane account.

Once logged in, click on your name to display the dropdown menu.

- Select "Your Settings"
- Click on "SSH Keys" in the left menu
- Give your key a name
- Paste the public key into the large text field
- Click the green "Add Key" button





If you do this all correctly, your new key will appear below in the Active SSH Keys list.



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## Step 5: Push Your Public Key To Your Server

Now push the key to the public server as described in this article

Add/Remove an SSH Key to/from an Active GridPane Server

(https://gridpane.zendesk.com/hc/en-us/articles/)



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### **Step 6: Connect To Your Server**

To connect to the server, type the following in the terminal:

```
ssh root@ipaddress (mailto:root@ipaddress)
```

For my example, this is

```
ssh root@78.141.195.46 (mailto:root@159.203.187.18)
```

Wait, root? But I did not name my key root! That doesn't matter. Every key, regardless of name, that is added to your GridPane Active SSH Keys is a root key.

If this is your first time connecting to this server, you will be asked if you want to continue connecting and add this IP address to your list of known hosts. Type yes.

If the private key on your machine matches the public key on the server, you will be authenticated and connect to the server.

The whole process looks like this:

```
C:\Users\mafur>ssh root@78.141.195.46
The authenticity of host '78.141.195.46 (78.141.195.46)' can't be established.
ECDSA key fingerprint is SHAZ56:MIHSGuqTJMgkczsSe/3L28znSVTZJ2YQgvqnOFA3t0.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '78.141.195.46' (ECDSA) to the list of known hosts.
```

```
MMMMMMMMMXxllllllccccccccccccccccccco0Kc,OMMMM
MMMMWWWWNKo:::::::::::::::::cc;',k0c,OMMMM
MMMWx;,,;;;;;;;;;;;;;;;;,,,,,,,,1KMMMMBLEEDING
Welcome to GridPane
      Easy Cloud VPS Management tailored
            for Secure, Highly Performant WordPress
Ubuntu 18.04.4 LTS (GNU/Linux 4.15.0-91-generic x86_64)
Nginx 1.15.8 * PHP 7.2+ * MySQL 8 * Redis 5 * ModSec 3+
 * Kubernetes 1.18 GA is now available! See https://microk8s.io for docs or
   install it with:
     sudo snap install microk8s --channel=1.18 --classic
 * Multipass 1.1 adds proxy support for developers behind enterprise
firewalls. Rapid prototyping for cloud operations just got easier.
     https://multipass.run/
 * Canonical Livepatch is available for installation.
    Reduce system reboots and improve kernel security. Activate at:
     https://ubuntu.com/livepatch
19 packages can be updated.
0 updates are security updates.
```

#### That's it!



#### **Quick Links**

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GridPane is the world's first hosting control panel purpose-built for Serious WordPress Practitioners

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