

# How To Install Minecraft Server On Windows 8 Hyper-V Ubuntu Server In 60s

Many readers have asked us how to set up a Minecraft server. Minecraft is a big hit in the gaming world, selling millions of copies but still being developed by an independent developer. One of the great things about Minecraft's independent route to market is that there is no "corporate" server requirement which plagues games like recent installments of Call of Duty. That means users are free to setup their own Minecraft servers at home, colocated or elsewhere. The model is very reminiscent to the Counter-Strike scene in the 2000-2001 time frame. Today we are going to show how to install Minecraft server on Windows 8 Hyper-V Ubuntu. This setup is easy and great for hosting LAN gaming.

Test Configuration To make this as relevant as possible to the test case my personal workstation is going to be used.

CPU(s). Intel Core i7-3990K Motherboard. ASUS P9X79 WS. Memory: 32GB (8x4GB) Corsair Force3 120GB. OCZ Vertex3 120GB. 2x Samsung 840 Pro 256GB. Power Supply: Corsair Carbide 500R. Corsair AX850 850w 80 Plus. OS: Microsoft Windows 8 Pro. Hyper-V and Ubuntu Server 12.10. Traditional rotating disks can cause a Minecraft server to hang for players during disk access.

Prerequisite: Install Ubuntu for Windows 8 Hyperv. Installing Ubuntu for Windows 8 Hyperv is easy. Hyper-V integration components are included with the major distributions making installation faster than with CentOS and many other distributions. This guide will show you how to install Ubuntu on Windows 8 Hyper-V. It takes just a few minutes. For a Minecraft server it is suggested that one uses the x64 server version. The workstation version takes up more disk space and uses more memory to run. Minecraft is a memory-intensive program so it is best to not waste memory.

One major note here is that one wants the Minecraft server Hyper-V data store to run on a SSD.

Install Minecraft Server on Windows 8 Hyper-V Ubuntu in 60 seconds Now for the fun part, getting a basic Minecraft server running in less than 60 seconds. It might take slightly longer if there is a slow Internet connection.

The first step to install Minecraft server on Windows 8 Hyper-V is to install java. For this guide we are going to use java7. To install Java on Ubuntu use the following command

```
sudo apt-get install openjdk-7-jre-headless
```

Here is a screenshot of what this will look like (may be slightly different if you already did `sudo apt-get upgrade`):

Install Minecraft on Hyper-V Ubuntu JAVA Now that the Ubuntu server has java installed, you can get the files needed to install Minecraft server. First, create a directory. I like `minecraft-server` as my directory for a simple server.

```
mkdir
```

After this one needs to get the Minecraft Server files:

```
wget -O ~/minecraft-server/server.jar  
https://s3.amazonaws.com/MinecraftDownload/launcher/minecraft_server.jar
```

That command is greatly simplified because it uses the same path. Bukkit has version numbers which makes it a little more difficult. This is how it all looks:

Install Minecraft on Hyper-V Ubuntu Minecraft Standard At this point one has installed Minecraft server on Windows 8 Hyper-V Ubuntu. It is possible to move the Minecraft server to another Windows 8 Pro, Windows 8 Enterprise or Windows Server 2008 R2, Windows Server 2012, or Hyper-V server machine by using this type. You can import the virtual server and then you are ready to go on a dedicated box.

Now the next step is to launch Minecraft server after it is installed. These commands are what I use most often:

```
cd minecraft-server
```

```
java -Xmx2048M -Xms2048M -jar server.jar nogui
```

That launches a 2GB of RAM minecraft server which most desktops can support. These numbers should be reduced to 1024M if one wants to use a Microsoft Surface Pro as the HyperV host. This is due to the limitations of 4GB RAM. An important factor here is that the more RAM the Hyper-V host has, the more it can allocate the the Ubuntu VM and the Minecraft server. Here is what that looks like:

Install Minecraft on Hyper-V Ubuntu Start Minecraft That's all there was and it only took

about a minute to get up and running with the Minecraft server in Hyper-V on a Ubuntu VM. There's a better way.

Scripting the Minecraft Server Installation on Ubuntu While entering commands is fun, we can use a simple bash script to do the installation. Log in to the Ubuntu VM using SSH or the HyperV console and open a text editor. I use nano a lot so this command would be:

```
nano minecraft-server-install.sh
```

You can now copy the following lines into your text editor and save/write changes.

```
#!/usr/local/bin/bash sudo apt-get install openjdk-7-jre-headless mkdir ~/minecraft-server &&  
wget -O ~/minecraft-server/server.jar  
https://s3.amazonaws.com/MinecraftDownload/launcher/minecraft\_server.jar
```

Once that is complete, you can run.

```
sh minecraft-server-install.sh
```

At which point the bash script will run, download and install java and Minecraft server. For those that want to do this on both Hyper-V and non Hyper-V Ubuntu installations, one can just download that script and complete installations in under 20 seconds each time.

Conclusion. Wzjxzz I hope that this helped. Always open to other suggestions and if we want, happy to do the same with bukkit or similar Minecraft server installations. The really cool thing here is that the installation is very portable since it is in Hyper-V and runs on many machines since Microsoft has brought Windows 8 Hyper-V to the masses.

Feel free to suggest other options.

TAGS minecraft Previous articleHP Moonshoot 1500 Hyperscale Computing Released Next articleASUS Z9PA-D8 Review - Dual Intel Xeon E5-2600 ATX Motherboard Patrick Kennedy <https://www.servethehome.com> Patrick has been running STH since 2009 and covers a wide variety of SME, SMB, and SOHO IT topics. Patrick is a consultant in IT and has worked for many large storage vendors and hardware manufacturers in Silicon Valley. STH's purpose is to help users find information about server storage, networking, and building blocks. You can post any useful information on the forums if you have it. 7 COMMENTS Yuri April 9, 2013 At 5:18 am Guys, I don't get "How to do something by Captain Obvious" kind of articles. What's going on with STH?

Stephen Davis April 9, 2013 at 8:42 AM Yuri - Sorry that you are not enjoying the recent how-to articles. We can only afford to test and buy so much news and product. Sometimes, we create articles that are based on projects we are working on or on something we had fun with. This is evident in Xen's articles. I have been working on a prototype public cloud and am now sharing it with others.

If you have any suggestions or are interested in a specific topic, please let us know. Please join us on the forums. We have a sub-forum dedicated to main site article ideas.  
<http://forums.servethehome.com/servethehome-com-article-suggestions/>

Patrick Kennedy April 9, 2013, 10 :50 Yuri. Stephen mentioned that you are free to suggest content or contribute to it.

Also of significant note: Things that are obvious to one person may not be obvious to others. We get many requests each week about this topic.

xena April 9, 2013, 11:40 AM Well +1 to Yuri. Same thoughts here. As regular visitor of this site for 2 years I see a downward curve in quality or rather quality of choice of topics. We had articles about raid cards test, 4 sockets motherboards and great articles about ibm1015 last year. You also have great ebay auction articles. That's what makes you unique and attracts readers all over the world (in my case, from central eu). Topics like memtest and minecraft make this site so low-end that people check to see if they are actually on STH or one of the many hw&sw junk sites. Cmon Patrick. You created this site and made it unique for IT people or high-end enthusiast people. We were very happy to find the information on your website. Now it feels like you're dumping your older readers and getting us low-quality food instead of the high-quality food we are used to. A few words of wisdom...

Patrick Kennedy April 9, 2013 at 1:33 PM xena. Thank you for your feedback. The next two days are likely to have content that is more in line with the older content (dual LGA2011 reviews and a cool piece on projects).

I started a thread here: <http://forums.servethehome.com/servethehome-com-article-suggestions/1672-sth-main-site-direction-april-2013-a.html> where we can continue the discussion. We always appreciate this feedback and have a dedicated public forum to discuss it.

Also, if you do have ideas for something more relevant, please feel free to join the list of contributors. It is always a pleasure to see people's projects get more attention.

Morko June 12, 2013 At 12:36 am It wasn't all for nothing though. This article was informative and helpful. First I tried this <http://www.smh.com.au/digital-life/computers/blogs/gadgets-on-the-go/setting-up-a-minecraft-home-server-20120823-24own.html>, great tutorial but it didn't serve all angles I was looking for so yeah, thanks for the post.

Ken February 7, 2015 @ 8:30 AM. A note to future readers: To install Ubuntu in hyper-V, you can install it as Gen 2 VMs, but in order for it to boot, you must disable the "secureboot" option in the Firmware setting of the VM.

To be clear, you create a new VM by choosing Generation 2 as the type. However, before you can boot the VM for first time, you will need to go into the settings and select 'require secured boot' (or something like that). The VM will start, and the install will locate all the synthetic devices.

This has been tested under Hyper-V both on Server 2012 R2 (Windows 8.1 running Ubuntu 14.10).

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