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BigBlueButtonVM

Download and setup your own BigBlueButton 0.81 Virtual Machine

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Welcome

This guide walks you through how to download and install the BigBlueButton 0.81 virtual machine (VM)

The VM is an easy way to have a fully working BigBlueButton server in a few minutes for testing and development. It can be run in a VMWare Player, which is available on Windows or Mac (on the Mac it's called VMWare Fusion). If you're on Unix, see [installing on Ubuntu 10.04 64-bit](#).

If you are a developer, you can use the VM as a basis for setting up a [development environment](#).

Before you install

Running BigBlueButton within a virtualized environment on a desktop computer is good for testing BigBlueButton (the actual number will depend on the speed of your computer and network) and developing and extending it.

However, if your intent is to use BigBlueButton in a production environment, we recommend setting up a production environment (see [minimum requirements](#)).

Requirements for the BigBlueButton VM

The requirements for running the BigBlueButton VM are as follows:

1. VMWare Player (or VMWare Workstation) for Windows or VM Ware Fusion for Mac
2. 2 G of free memory to run the VM
3. A DHCP Server for the VM to acquire an IP address on boot
4. Ability for the VM to connect to the internet

The fourth requirement is important. The VM must be able to connect to the internet on first boot to update and connect, it won't be able to finish the setup of BigBlueButton.

Note: If you compare the above requirements with those [in installation from packages](#), you'll note the difference because the BigBlueButton VM isn't intended for use in a production environment; rather, for testing and development of BigBlueButton.

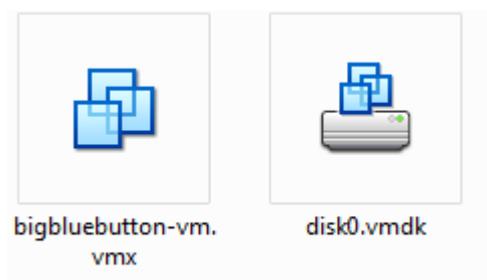
Setting up the BigBlueButton VM

Download

1. Download and uncompress the ZIP file.

Download bigbluebutton081-VM.zip from SourceForge: [Download](#)

2. Open the enclosed folder.



3. Double-click on the bigbluebutton-vm.vmx icon.

This will start VMWare Player/Workstation (or VMWare Fusion on the Mac) and boot the VM. NOTE: Must be **Bridged** (not NAT).

The BigBlueButton VM takes about 10 minutes to first initialize. Sit back, relax, go watch some [YouTube](#). The BigBlueButton VM goes through its initial startup script, which consists of the following:

- Set up the networking (acquire an IP address from a DHCP server)
- Download and install the latest BigBlueButton packages
- Configure BigBlueButton to use the VM's current IP address
- Install OpenSSH

Change Default Password

When it's done, you'll see a login prompt. **NOTE:** The VM has been pre-configured to have the following:

user-id: **firstuser**

password: **default**

To secure your server, immediately login with the above user-id/password. This password is set to

to enter the password **default** again, then to provide a new password (entering it twice to confirm). Aga server.

After resetting the default password, you'll receive a welcome message (this appears each time you log BigBlueButton server using the URL given in the welcome message).

Using BigBlueButton

At this point, you should have a full BigBlueButton 0.81 server up and running. Open a web browser to message. If you have any problems, please read through the troubleshooting section below.

Troubleshooting

The console gives an error when booting

When the VM first boots, it acquires an IP address and runs a setup script to finish the installation of Big

1. updates the packages
2. installs BigBlueButton

The update step ensures that any updates to packages, issued after the release of the BigBlueButton VM before installation proceeds.

The most common error that prevents update and installation occurs when the BigBlueButton VM failed occurs, you'll see errors in the console when booting.

You can manually finish the installation process, but you first need to ensure the VM has (1) acquired a accessible by the host computer.

First, check in VMWare Player that has networking set to **bridged**. Next, type

```
ping google.com
```

You should get some ping results

```
PING google.com (72.14.204.99) 56(84) bytes of data.  
64 bytes from iad04s01-in-f99.1e100.net (72.14.204.99): icmp_seq=1 ttl=54 time=4  
64 bytes from iad04s01-in-f99.1e100.net (72.14.204.99): icmp_seq=2 ttl=54 time=4
```

If not, it means that the VM is unable to acquire an IP address from a DHCP server on the network. If th

```
sudo /etc/init.d/networking restart
```

Try the ping command again. If you are unable to acquire an IP address, check out this resource [Ubuntu](#)

Next, you can manually finish the setup to BigBlueButton with the following commands:

```
sudo apt-get update  
sudo apt-get upgrade  
sudo apt-get install bigbluebutton
```

There should be no errors when you type the above three commands.

bbb-conf command not found

When it first launches, if the BigBlueButton VM is unable to connect to the internet, it will not finish the i

type `bbb-conf` command and receive the error "command not found".

The solution is to make sure the VM can connect with the internet. You should be able to

```
ping ubuntu.bigbluebutton.org
```

and get a response. Once connected, do the following commands:

```
sudo apt-get update
sudo apt-get dist-upgrade
```

Then you can finish the installation manually by following [these steps](#).

The IP address of my VM has changed and now BigBlueButton does

Next, you'll need to ensure that BigBlueButton is listening to the IP address of your VM. One symptom is BigBlueButton through the web browser you get the `Welcome to nginx!` message.

To check your current environment for possible problems that might prevent BigBlueButton from running,

```
sudo bbb-conf --check
```

If there are any problems (i.e. if `bbb-conf` detects that `red5` isn't running), you'll see a warning message

The output from above showed that BigBlueButton's configuration files were listening to IP address `192.168.0.125`. If the IP address shown for your output differs from the IP address of your VM, you can change it by using `bbb-conf`.

For example, if the output from `ifconfig` shows your VM is listening to IP address `192.168.0.125`, then

```
sudo bbb-conf --setip 192.168.0.125
```

If you need to restart BigBlueButton, do the command

```
bbb-conf --clean
```

and this will do a clean restart.

Check if you have an internet connection

```
ping www.google.com
```

If you get an error saying your `eth0` is not connected, check if the VM is using `eth1`:

```
ifconfig -a
```

If it shows the following:

```
eth1      Link encap:Ethernet  HWaddr 00:0c:29:dd:b4:51
          inet addr:192.168.0.154  Bcast:192.168.0.255  Mask:255.255.255.0
          inet6 addr: fe80::20c:29ff:fedd:b451/64  Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:4080349 errors:0 dropped:0 overruns:0 frame:0
          TX packets:3932137 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
```

```
RX bytes:1216680270 (1.2 GB) TX bytes:822963271 (822.9 MB)
Interrupt:19 Base address:0x2000
```

```
lo      Link encap:Local Loopback
        inet addr:127.0.0.1  Mask:255.0.0.0
        inet6 addr: ::1/128 Scope:Host
        UP LOOPBACK RUNNING  MTU:16436  Metric:1
        RX packets:12938 errors:0 dropped:0 overruns:0 frame:0
        TX packets:12938 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:40299608 (40.2 MB) TX bytes:40299608 (40.2 MB)
```

Make it use eth0 instead

```
vi /etc/udev/rules.d/70-persistent-net.rules
```

This will show:

```
# This file was automatically generated by the /lib/udev/write_net_rules
# program, run by the persistent-net-generator.rules rules file.
#
# You can modify it, as long as you keep each rule on a single
# line, and change only the value of the NAME= key.

# PCI device 0x1022:0x2000 (pcnet32)
SUBSYSTEM=="net", ACTION=="add", DRIVERS=="?*", ATTR{address}=="00:0c:29:23:d1:b3",

# PCI device 0x1022:0x2000 (pcnet32)
SUBSYSTEM=="net", ACTION=="add", DRIVERS=="?*", ATTR{address}=="00:0c:29:dd:b4:51",
```

Swap the two entries by editing "NAME=eth1" to "NAME=eth0" and vice versa.

Reboot your machine. Check if you managed to connect to the internet. Make sure the VM's network adapter is set to NAT. On the VMWare player this is enabled in the Devices menu at the top.

More info can be found here <http://ubuntuforums.org/showthread.php?t=221768>

I can't cut-and-paste into the terminal window

When running the BigBlueButton VM, you can't use the clipboard in the terminal window provided by VI

On Windows, we recommend you download and run [putty](#), a terminal emulation program that supports

On Mac, you can open a Terminal window and ssh into the VM using its IP address.

I'm still having problems

If you've tried both the above commands and your BigBlueButton server is not working, use Google to search for a description of your problem or the error message you are seeing. The reason we recommend using Google is that our posts in our mailing lists and they are all indexed by Google -- there is an excellent chance that you'll find a solution.

If you're unable to find a solution, please post your question to the [bigbluebutton-setup](#) mailing list. Please don't hesitate to ask for help.

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