Techlore SpeedTeam v3 Thorough Instructions

1. Download & Install VirtualBox + Extension Pack

a) Download VirtualBox and the extension pack. (Make sure virtualization is **supported** and **enabled** in your BIOS)

VirtualBox 6.1.4 platform packages

- Windows hosts
- OS X hosts
- Linux distributions
- Solaris hosts

The binaries are released under the terms of the GPL version 2.

See the changelog for what has changed.

You might want to compare the checksums to verify the integrity of dow

- SHA256 checksums, MD5 checksums

Note: After upgrading VirtualBox it is recommended to upgrade the gue

VirtualBox 6.1.4 Oracle VM VirtualBox Extension Pack

- All supported platforms

b) Install VirtualBox using these instructions.
c) Once VirtualBox is installed, you can install the extension pack by opening the file. If opening the file doesn't automatically install it, use the manual route.

2. Download the SpeedTeam v3 Virtual Machine

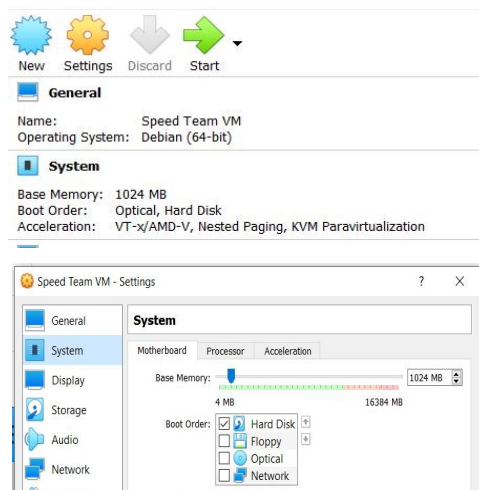a) The most up-to-date download link will be in the simple instructions.
b) Save the file in a safe place on your system. Somewhere in *Documents* is recommended.

3. Import and Configure the VM

a) Double-click the VM file and VirtualBox should automatically open and import the VM.
b) Now it's time to configure the VM for your specific computer to maximize your hardware.
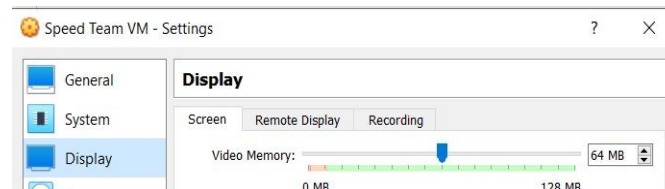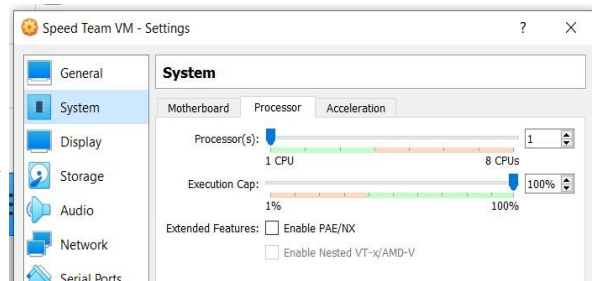
Click Settings

Increase RAM/Base Memory. It's recommended to increase it as much as you can without hitting orange/red.

Increase the number of processor(s) as much as you can while staying in the green
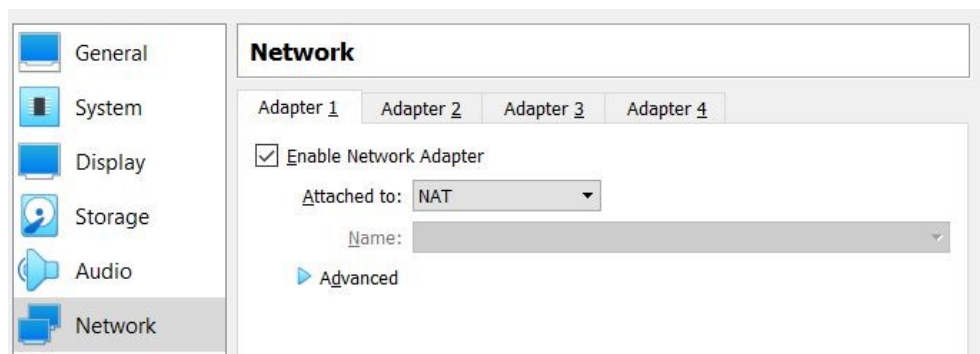

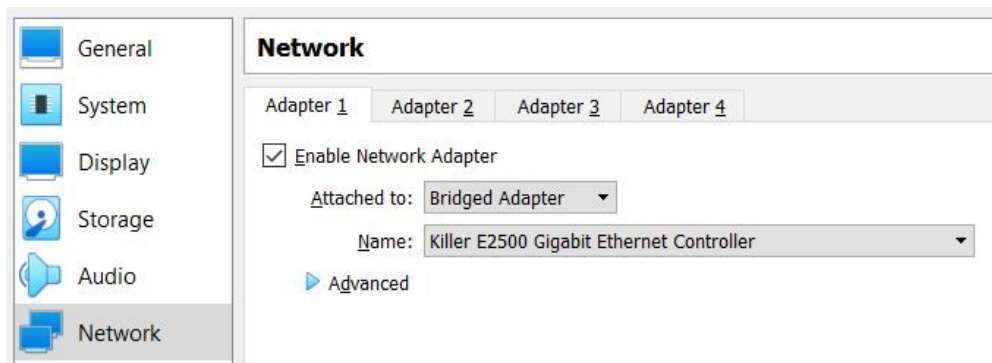**In Display Memory, max this out.**

4. Set the Network Adapter

a) This is one of the most important things you need to do. By default, VirtualBox uses *NAT*, which has slower speeds. For faster VM speeds, ensure you're using the **Bridged Adapter.**

Wrong!

Correct!
(Your name will likely be different)

5. Boot & Check the VM

a) Click *Start* in VirtualBox to start the VM.

b) The VM will boot and autologin to a desktop
c) The browser will load a webpage with checks. If you pass the checks, continue to step 6. If you fail a check, email back your issue—**DO NOT continue if you did not pass all checks.**

6. Schedule a Day to Test

a) In your email inbox, you will have instructions included to register for a day to test. This gives you the complete 24 hours of that day to perform testing on your own schedule.
b) **Reserving a day confirms you passed all the checks in step 5! DO NOT sign up unless all checks were passed.**

7. Prepare to Test

a) Mark your calendar for your testing day as it's 100% on you to get your testing completed.
b) You will receive an email with all necessary information needed to test the VPN.

8. Configure the VPN

a) For most tests, you will be using the **OpenVPN GUI**.

Click on the network panel

Click VPN Connections and add a VPN connection

In the dropdown, Import a configuration and select the profile you have been instructed to use.

For most services, enter login credentials in the configuration screen. Then Save to create the VPN Configuration.

Authentication

Type:	Password ▼
User name:	
Password:	

Fri Mar 20, 13:00

Ethernet Network

Wired connection 1
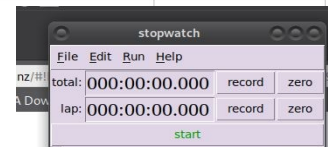
Disconnect

VPN Connections ▶

You can toggle between enabling and disabling the VPN.

9. Perform Speed Testing

a) First, open Firefox and select the **Checks bookmark**. Perform the second series of checks to ensure you are able to speed test. If you're not able to pass the checks, do **NOT** proceed.
b) Open the testing spreadsheet by clicking the sheets button at the top of the screen. All of the tests are bookmarked inside Firefox.

Perform all speed testing WITHOUT a VPN, there is an included stopwatch if needed

	A	B	C	D	E	F
	VPN Name:	Synthetic Download Test (Mbps)	Synthetic Upload Test (Mbps)	Synthetic Ping Test (ms)	Mega Download Test (Seconds)	Android Studio Test (Seconds)
	Test 1 (No VPN)	50	12	10	300	280
	Test 2 (No VPN)	60	15	15	350	300
	Test 3 (No VPN)	70	10	5	300	320
	Test 4 (No VPN)	40	14	8	N/A	N/A
	Test 5 (No VPN)	50	10	12	N/A	N/A
	Control Average	54	12.2	10	316.67	300
	Test 1 (With VPN)					

stopwatch

File Edit Run Help

total:	000:00:00.000	record	zero	
lap:	000:00:00.000	record	zero	

start

	A	B	C	D	E	F
1	VPN Name:	Synthetic Download Test (Mbps)	Synthetic Upload Test (Mbps)	Synthetic Ping Test (ms)	Mega Download Test (Seconds)	Android Studio Test (Seconds)
2	Test 1 (No VPN)	50	12	10	300	280
3	Test 2 (No VPN)	60	15	15	350	300
4	Test 3 (No VPN)	70	10	5	300	320
5	Test 4 (No VPN)	40	14	8	N/A	N/A
6	Test 5 (No VPN)	50	10	12	N/A	N/A
7	Control Average	54	12.2	10	316.67	300
8						
9	Test 1 (With VPN)	40	10	15	350	300
10	Test 2 (With VPN)	50	8	20	400	300
11	Test 3 (With VPN)	60	8	20	300	320
12	Test 4 (With VPN)	30	10	25	N/A	N/A
13	Test 5 (With VPN)	40	10	30	N/A	N/A
14	VPN Average	44	9.2	22	350	306.67
15						
16	Results (Performance/100%)	81.48%	75.41%	12	90.48%	97.83%
17						

Perform the remaining tests WITH your VPN

Input the final information on the bottom of the sheet

18	Tester Number	0A
19	Continent	North America
20	Country	United States
21	VPN Server Used	Server #108

10. Save & Upload Results

    a) Now *Save As* and save this final spreadsheet as a new file on your desktop in the *.XLS* format.

    b) **Do not change the file format! .XLS is what is needed.**

    c) Open Firefox, and you'll see a bookmark labeled *Upload Final Sheet*. Upload your sheet using the upload portal.

    d) The portal may ask for an email. If it does, there is another bookmark to a temporary email service the portal will accept.

11. Clean Up

    a) Disconnect from the VPN

    b) Delete the VPN configuration files in the network manager

    c) The only difference in the VM after speed testing should be your completed spreadsheet.

    d) If you completed all the steps, there is no need to notify anyone of your completion. You will be contacted if you did not complete your testing on time and/or there was an issue with your upload.