

# Software Installation Instructions

Please read the following checklist and detailed instructions carefully and completely before installing software or opening any virtual machines. To mitigate technical issues, it is important that these steps are followed in sequential order.

## Installation and Download Checklist 1. Host Machine Setup

- Enable Virtual Technology on the host computer BIOS if it is disabled.
- Ensure Internet Connectivity – The images must connect to the Internet to report scores.

## 2. Software Installation

- Download and Install 7-Zip
- Download and Extract WinMD5
- Download and Install VMware Workstation Pro 17.5.2 (64-bit host)

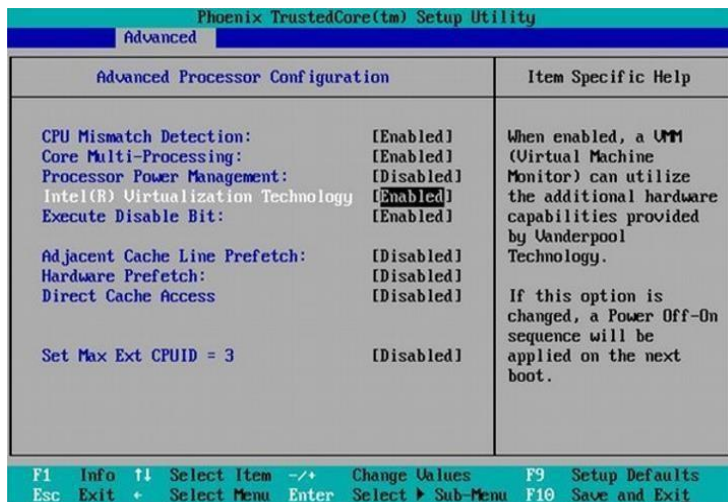
## Host Machine Setup

We recommend your “host” system (your physical computer) has these specifications:

- 64-bit i3 processor of the generation “Sandy Bridge” or better or AMD 64-bit processor of the generation “Bulldozer” or better (built in 2011 or later)
- **Virtualization Technology / Extensions (e.g., VT-x, Vx) must be ENABLED in the BIOS**
- 8 GB of RAM (4 GB may cause performance issues)
- 40 GB of free disk space
- 1280x768 or higher display / 1280x1024 recommended

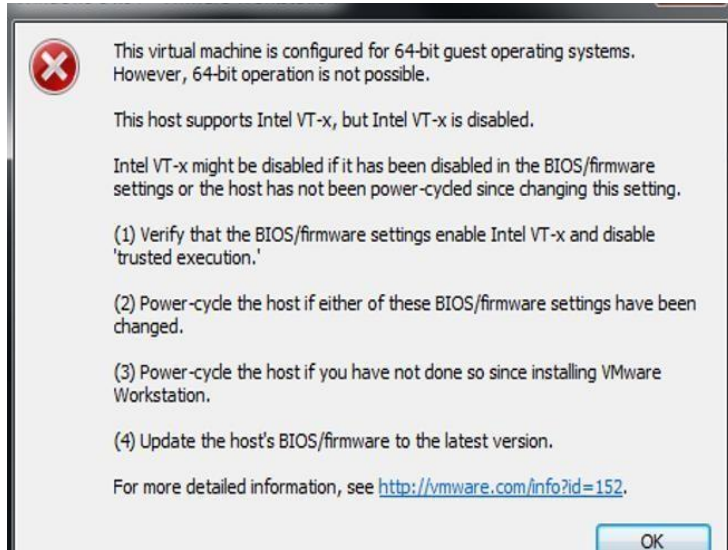
For more detailed information, view the [full technical specifications](#).

### 1. Enable Virtual Technology on the host computer BIOS if it is disabled



Check with your computer manufacturer for the exact steps to change the BIOS. Normally, the BIOS can only be accessed in the few seconds of black or blue screen that appears at the beginning of the bootup or re-starting process. A note to press a key such as Esc or F2 to enter **Setup** or the **BIOS** is normally shown at the top of the screen during the initial boot process. It may take several attempts because it is a short period of time before the Windows screen appears. To the left is a

screen capture of a BIOS screen with Virtual Technology enabled.



You will receive an error in VMware Workstation Pro if your Virtual Technology is disabled, as shown in the screenshot to the left.

## 2. Ensure Internet Connectivity

Your image MUST be connected to the Internet, which means your host machine should have a stable internet connection.

## Software Installation Instructions

To successfully open the virtual demo and competition images, 7-zip, WinMD5, and VMware Workstation Pro software must be installed on your host machine:

### 7-Zip Download and Installation

[7-Zip](#) – This software will extract the virtual machine images after they are downloaded (images are compressed in .zip format when downloaded) – [Click here for 7-Zip installation instructions with screenshots](#)

1. Go to <https://www.7-zip.org/>. Download the 64bit x64 version (CyberPatriot requires using a 64-bit host). If prompted, choose to “Save” the file to disk.
2. Locate the 7-zip installation file (by default, it will typically be saved to the Downloads folder). Double-click to install.
3. When prompted, click “Yes” to allow the installation to proceed.
4. Click “Install” to continue.
5. Click “Close” to finish the installation.

Link	Type	Windows	Size
<a href="#">Download</a>	.exe	64-bit x64	1.5 MB
<a href="#">Download</a>	.exe	32-bit x86	1.2 MB
<a href="#">Download</a>	.exe	64-bit ARM64	1.5 MB

## WinMD5 Download and Extraction

[WinMD5](#) – This software verifies that your images were not corrupted during the download process by using a checksum. If the checksum of your downloaded image does not match the checksum provided in the image download email, you will need to re-download the image. –

[Click here for WinMD5 installation instructions with screenshots](#)

1. Go to <http://www.winmd5.com>. Click “WinMD5 Freeware Download.” If prompted, choose to “Save” the file to disk. (Note: You must have 7-Zip installed to decompress the installation file)
2. Locate the WinMD5 installation file (by default, it will typically be saved to the Downloads folder).
3. Use 7-Zip to extract the contents of the WinMD5 file (right-click the WinMD5 file folder, hover over 7-Zip, and select “Extract Here” to extract to the current folder OR select “Extract files...” if you want to extract the contents to a different folder).
4. Run WinMD5 by double-clicking on the extracted application file.

## VMware Workstation Pro 17.5.2 Download and Installation

VMWare Workstation Pro - The CyberPatriot demo and competition images are run in VMWare WorkstationPro. Other virtualization software may work, but technical support is only provided for the VMWare program version listed above. VMWare Fusion, VMWare Player, or newer versions of VMWare Workstation Pro may be used, but at the risk of incurring technical issues.

1. [Click here for instructions to install VMWare Workstation Pro](#)
2. Locate the VMware-workstation -full-17.5.2-23775571.exe installer (by default, it will typically be saved to the Downloads folder).
3. Double-click on the VMware-workstation -full-17.5.2-23775571.exe and select “Yes”. The installer application will open.
4. Click “Next”
5. Check the box to accept the License Agreement and click “Next.”
6. Click “Next”
7. **Uncheck** the two boxes (*‘Check for product updates’* and *‘Join the VMware Customer Experience’*) and click “Next.”
8. Click “Next” on the Shortcuts window.
9. Click “Install.”
10. Once the installation is complete, click “Finish.”