

仮想マシンでLinuxを動かす

目的

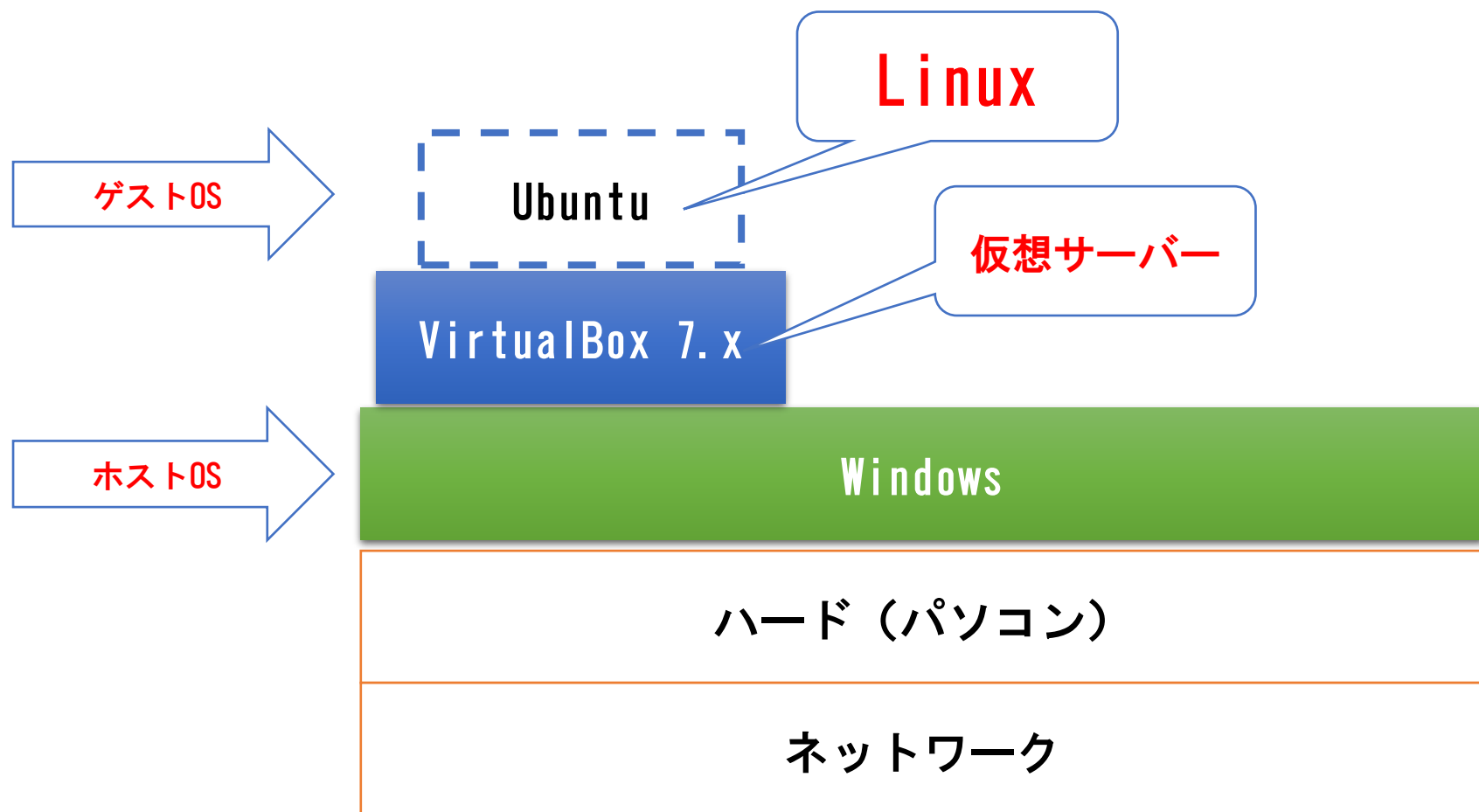
Windows上で、Linux ServerやLinux DeskTop、Winodws11を動かすことができます。

システムエンジニアになる為に、いろいろなシステムを構築して、実績を積み上げて行く必要があります。

ここでは、LinuxにXAMPPをインストールして、PHPによるサーバーサイドプログラミングを学ぶ環境を準備します。

目的

仮想サーバーでLinuxを動かす



ハード・ソフト環境

1) ハードウェア

DELL OPTIPLEX 9020 SFF

OS:Windows10

CPU : Core i7 4770

MEM : 16GB

SSD : 256GB

HDD : 1 TB

GPU : MSI GeForce GTX 1550

2) 仮想サーバー VirtualBox 7.0.8

3) ゲストOS : Ubuntu Desktop 22.04.2 LTS

手順

1) Microsoft Visual C++ 2019 再配布可能パッケージインストール

<https://learn.microsoft.com/en-us/cpp/windows/latest-supported-vc-redist?view=msvc-170>

2) VirtualBox 7.x インストール

VirtualBox 7.x

<https://www.virtualbox.org/>

1) Microsoft Visual C++ 2019 再配布可能パッケージインストール

事前準備

VirtualBox 7.xは、Microsoft Visual C++ 2019 再配布可能パッケージを使用します。
パソコンにインストールされない場合は、これをインストールします。

インストール後は、再起動しますので注意してください。

<https://learn.microsoft.com/en-us/cpp/windows/latest-supported-vc-redist?view=msvc-170>

https://aka.ms/vs/17/release/vc_redist.x64.exe

Microsoft Visual C++ 2019 再配布可能パッケージ

Microsoft Visual C++ 2015-2022 Redistributable (x64) - 14.36.32532

マイクロソフト ソフトウェア ライセンス条項

MICROSOFT VISUAL C++ 2015 - 2022 ランタイム

本ライセンス条項は、Microsoft Corporation（またはお客様の所在地に応じた関連会社）とお客様との契約を構成します。本ライセンス条項は、上記のソフトウェアのインストール、使用、複製、配布、またはその他の行為を許可するものではありません。

ライセンス条項および使用条件に同意する(A)

インストール(I) 閉じる(C)

Windows File Explorer. In the Details pane, the File version contains the version of the redistributable.

Architecture	Link	Notes
ARM64	https://aka.ms/vs/17/release/vc_redist.arm64.exe	Permalink for late supported ARM64 version
X86	https://aka.ms/vs/17/release/vc_redist.x86.exe	Permalink for late supported x86 version
X64	https://aka.ms/vs/17/release/vc_redist.x64.exe	Permalink for late supported x64 version. This package contains both ARM64 and X64 binaries.

Additional resources

- Documentation
- Redistributing Visual C++ Files
- Redistributing Visual C++ ActiveX Controls
- Visual Studio 2019 Redistribution

VC_redist.x64 (2).exe

VirtualBox 7.x インストール

Virtual Boxインストール

「Virtual Box」で検索又は下記のURLでアクセスします。

<https://www.virtualbox.org/>



The screenshot shows the Oracle VM VirtualBox website homepage. The browser address bar displays "virtualbox.org". The page features the VirtualBox logo on the left, a navigation menu with links like "About", "Screenshots", "Downloads", "Documentation", "End-user docs", "Technical docs", "Contribute", and "Community". The main content area includes a "Welcome to VirtualBox.org!" message, a description of the product, and a large blue button with a red border that says "Download VirtualBox 7.0". Below this is a "Hot picks:" section with links to developer resources. On the right, there is a "News Flash" section listing recent releases and maintenance updates.

Oracle VM VirtualBox

virtualbox.org

VirtualBox
Welcome to VirtualBox.org!

VirtualBox is a powerful x86 and AMD64/Intel64 virtualization product for enterprise as well as home use. Not only is VirtualBox an extremely feature rich, high performance product for enterprise customers, it is also the only professional solution that is freely available as Open Source Software under the terms of the GNU General Public License (GPL) version 3. See "About VirtualBox" for an introduction.

Presently, VirtualBox runs on Windows, Linux, macOS, and Solaris hosts and supports a large number of guest operating systems including but not limited to Windows (NT 4.0, 2000, XP, Server 2003, Vista, Windows 7, Windows 8, Windows 10), DOS/Windows 3.x, Linux (2.4, 2.6, 3.x and 4.x), Solaris and OpenSolaris, OS/2, and OpenBSD.

VirtualBox is being actively developed with frequent releases and has an ever growing list of features, supported guest operating systems and platforms it runs on. VirtualBox is a community effort backed by a dedicated company: everyone is encouraged to contribute while Oracle ensures the product always meets professional quality criteria.

Download VirtualBox 7.0

Hot picks:

- Pre-built virtual machines for developers at [Oracle Tech Network](#)
- Hyperbox** Open-source Virtual Infrastructure Manager [project site](#)
- phpVirtualBox** AJAX web interface [project site](#)

News Flash

- New April 18th, 2023 VirtualBox 7.0.8 released!**
Oracle today released a 7.0 maintenance release which improves stability and fixes regressions. See the [Changelog](#) for details.
- New April 18th, 2023 VirtualBox 6.1.44 released!**
Oracle today released a 6.1 maintenance release which improves stability and fixes regressions. See the [Changelog](#) for details.
- New January 17th, 2023 VirtualBox 7.0.6 released!**
Oracle today released a 7.0 maintenance release which improves stability and fixes regressions. See the [Changelog](#) for details.
- New January 17th, 2023 VirtualBox 6.1.42 released!**
Oracle today released a 6.1 maintenance release which improves stability and fixes regressions. See the [Changelog](#) for details.
- New November 18th, 2022 VirtualBox 7.0.4 released!**
Oracle today released a 7.0 maintenance release which improves stability and fixes regressions. See the [Changelog](#) for details.
- New October 20th, 2022 VirtualBox 7.0.2 released!**
Oracle today released a 7.0 maintenance release which improves stability and fixes regressions. See the [Changelog](#) for details.
- New October 11th, 2022 VirtualBox 6.1.40 released!**
Oracle today released a 6.1

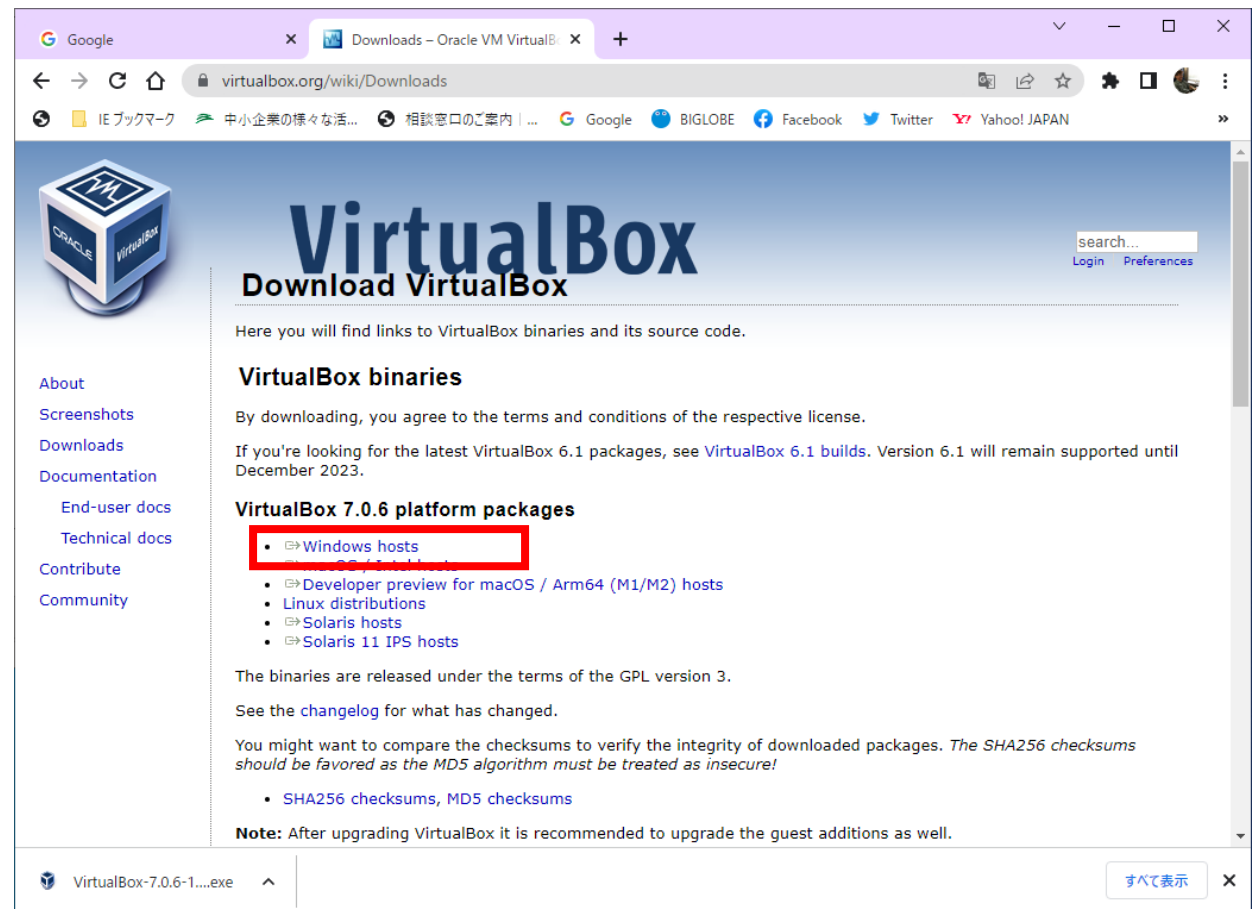
<https://www.virtualbox.org/wiki/Downloads>

ORACLE

VirtualBoxダウンロード

「[Windows hosts](#)」をクリックします。

<https://www.virtualbox.org/wiki/Downloads>



The screenshot shows a web browser window displaying the VirtualBox Downloads page. The browser's address bar shows the URL [virtualbox.org/wiki/Downloads](https://www.virtualbox.org/wiki/Downloads). The page features the VirtualBox logo and the heading "Download VirtualBox". Below the heading, there is a search bar and links for "Login" and "Preferences". The main content area includes a sidebar with navigation links such as "About", "Screenshots", "Downloads", "Documentation", "End-user docs", "Technical docs", "Contribute", and "Community". The main text area contains the following sections:

- VirtualBox binaries**: A section stating that by downloading, users agree to the terms and conditions of the respective license. It also mentions that the latest VirtualBox 6.1 packages are available and that version 6.1 will remain supported until December 2023.
- VirtualBox 7.0.6 platform packages**: A list of links for different operating systems, with "Windows hosts" highlighted by a red box. The other links are "Developer preview for macOS / Arm64 (M1/M2) hosts", "Linux distributions", "Solaris hosts", and "Solaris 11 IPS hosts".
- The binaries are released under the terms of the GPL version 3.**
- See the changelog for what has changed.**
- You might want to compare the checksums to verify the integrity of downloaded packages. The SHA256 checksums should be favored as the MD5 algorithm must be treated as insecure!**
- SHA256 checksums, MD5 checksums**
- Note:** After upgrading VirtualBox it is recommended to upgrade the guest additions as well.

At the bottom of the browser window, a download bar shows the file "VirtualBox-7.0.6-1...exe" and a button labeled "すべて表示".

インストーラー起動



The screenshot shows a web browser window displaying the VirtualBox website. The address bar shows the URL `virtualbox.org/wiki/Downloads`. The page title is "VirtualBox" and the main heading is "Download VirtualBox". The page content includes a sidebar with navigation links, a search bar, and a list of download links for various operating systems. A red box highlights the download link "VirtualBox-7.0.8-1...exe" in the browser's download bar.

Downloads – Oracle VM VirtualB... | Ubuntu のダウンロードありがとうございます | +

virtualbox.org/wiki/Downloads

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スタートページ | ページ一覧 | 履歴

Download VirtualBox

Here you will find links to VirtualBox binaries and its source code.

VirtualBox binaries

By downloading, you agree to the terms and conditions of the respective license.

If you're looking for the latest VirtualBox 6.1 packages, see [VirtualBox 6.1 builds](#). Version 6.1 will remain supported until December 2023.

VirtualBox 7.0.8 platform packages

- ⇒ [Windows hosts](#)
- ⇒ [macOS / Intel hosts](#)
- ⇒ [Developer preview for macOS / Arm64 \(M1/M2\) hosts](#)
- ⇒ [Linux distributions](#)
- ⇒ [Solaris hosts](#)
- ⇒ [Solaris 11 IPS hosts](#)

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- ⇒ [SHA256 checksums, MD5 checksums](#)

VirtualBox-7.0.8-1...exe


すべて表示

インストール開始

Downloads - Oracle VM VirtualB... x Downloads - Oracle VM VirtualB... x +

virtualbox.org/wiki/Downloads

IEブックマーク Google 無料トライアルと無料... 中小企業の様々な活... 相談窓口のご案内 | ... BIGLOBE Facebook Twitter Yahoo! JAPAN

 **VirtualBox**
Download VirtualBox

search...
Login Preferences

About
Screenshots
Downloads
Documentation
End-user docs
Technical docs
Contribute
Community

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- ⇒ [SHA256 checksums, MD5 checksums](#)

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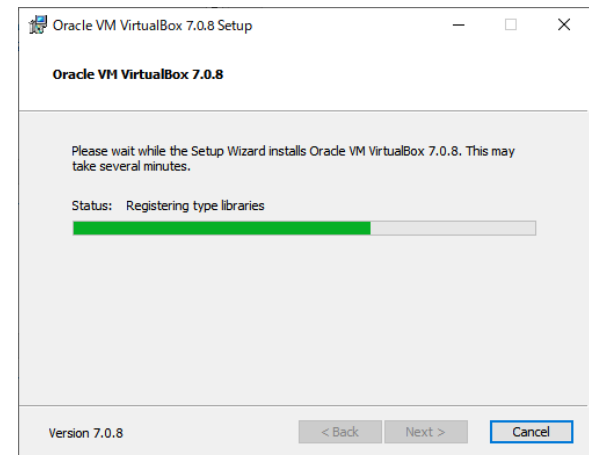
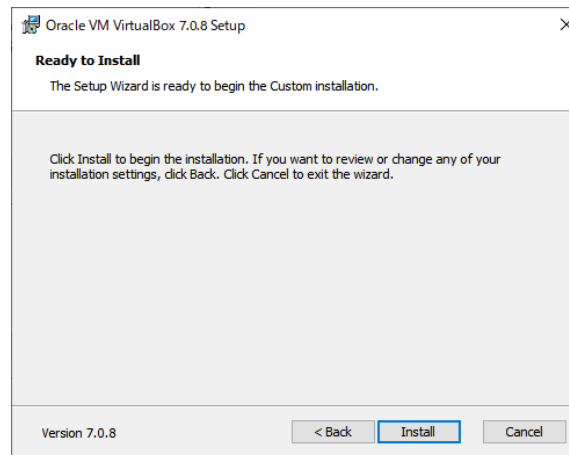
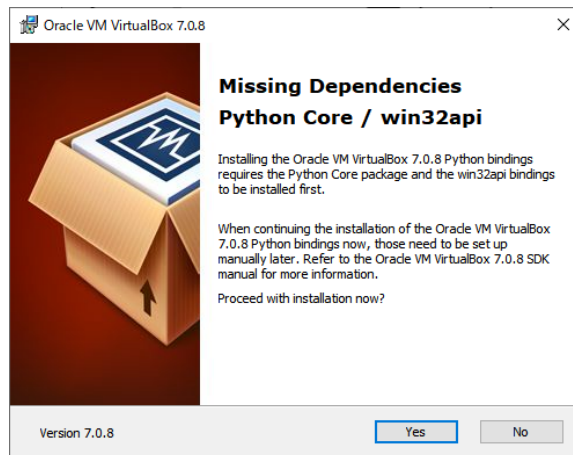
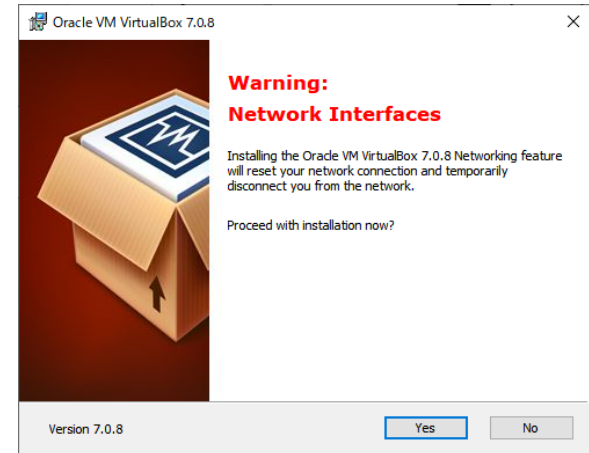
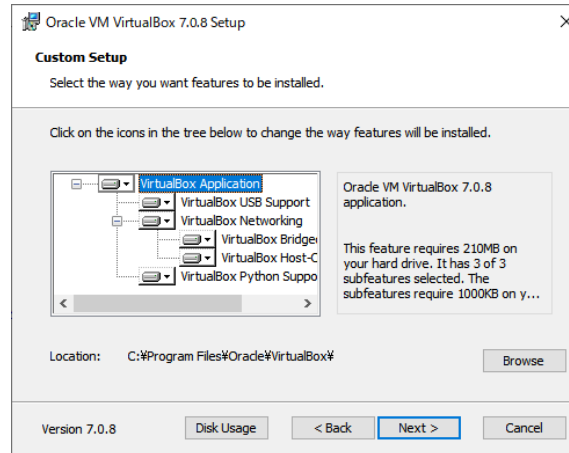
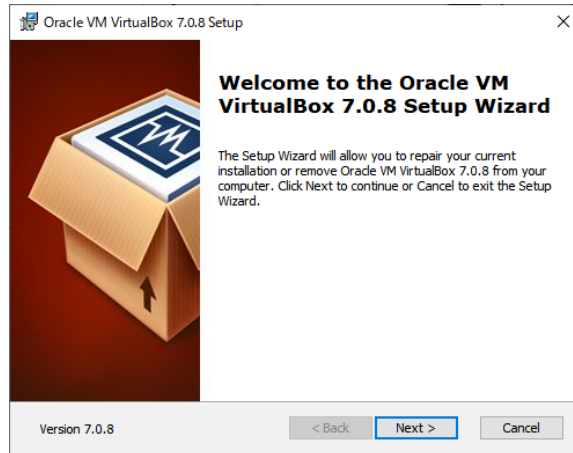
VirtualBox 7.0.8 Oracle VM VirtualBox Extension Pack

- ⇒ [All supported platforms](#)

VirtualBox-7.0.8-1...exe ^

すべて表示 x

インストール



Virtual BOXの起動

