

macOS版VirtualBoxに CentOS Linux 7をインストール

2020/06/13

FM-Tokyoライトニングトーク発表資料

松尾篤（株式会社エミック）

自己紹介

- ・ 松尾篤（まつおあつし）

- ✓ 株式会社エミック（東京都杉並区）代表取締役社長
- ✓ FileMaker 18 認定デベロッパ
- ✓ kintone認定 アプリデザインスペシャリスト（2020年2月）
- ✓ kintone認定 カスタマイズスペシャリスト（2020年3月）
- ✓ Linuxサーバー運用経験20年
- ✓ https://note.com/matsuo_atsushi



App Design
SP 2020



Customization
SP 2020

株式会社エミック



- ・ 現在30期目
- ・ Claris FileMaker対応ホスティングサービス
(FMプラン) を1998年から提供
- ・ kintone導入支援・カスタマイズ開発
- ・ [**https://www.emic.co.jp/**](https://www.emic.co.jp/)



今回の話題

1. Linux版Claris FileMaker Server
2. CentOS Linux
3. VirtualBox

1. Linux版Claris FileMaker Server

note

🔍 ログイン 新規登録



Linux版FileMaker Server 19が開発者プレビュー版として利用できるようになりました

♡ 7

 松尾篤
2020/05/22 17:21

♡ 7 +



https://note.com/matsuo_atsushi/n/nefad6935328d

Linux版

Claris FileMaker Server



- バージョン19の発売と同時に公表
- Windows Server版とmacOS版に加え
CentOS Linux版が用意されることに
- 現在は開発者プレビュー版として配布
- 今年の夏の終わり頃に提供される予定

Linux

- Unix系オペレーティングシステムの1つ
- フリーソフトウェアかつオープンソースソフトウェア
- “業界標準の OS” (Claris FileMaker 19のプレスリリースより)

Linuxの利点

- 無料で利用でき誰でも自由に改良できる
- 特にサーバー用途では業界標準のOS
- サーバーの構成管理やテスト、自動化に役立つ各種ツールが充実

2. CentOS Linux

CentOS Linux

- Red Hat Enterprise LinuxベースのLinuxディストリビューション
- FileMaker Cloud for AWSでも採用
- Linux版のClaris FileMaker Server 19はCentOS Linux 7をサポート予定



CentOS Linux

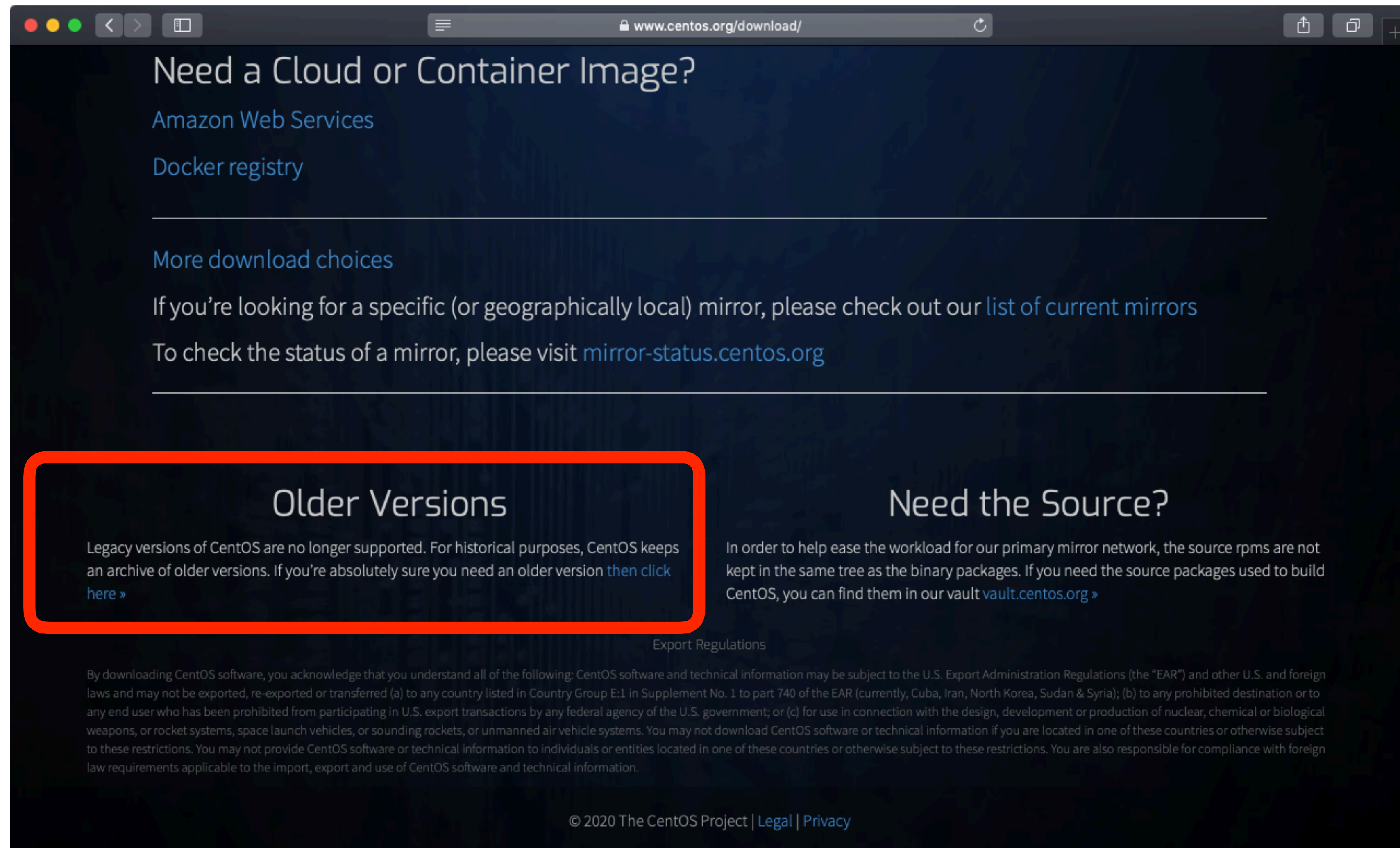
- 最新版はCentOS Linux 8 (1911)
- 開発者プレビュー版のClaris FileMaker Server for LinuxはCentOS Linux 7 (1908)をサポート
- CentOS Linux 7の保守は2024年6月までの予定

CentOSのダウンロード

- <https://www.centos.org/download/>
 - 最新版をダウンロードする場合
- <https://wiki.centos.org/Download>
 - CentOS Linux 7をダウンロードする場合



<https://www.centos.org/download/>



<https://www.centos.org/download/>

CentOS

編集不可のページ

検索

Menu

ログイン

Navigation

- FrontPage
- Documentation
- TipsAndTricks
- HowTos
- FAQ
- Events
- Contribute
- RecentChanges

Download
Last updated at 2020-05-02 16:25:44

Download CentOS Linux ISO images

Base Distribution



NOTE

CentOS is available free of charge. We do **accept (non-financial) donations** for improving, hosting and promoting CentOS. If CentOS is important to you, please support the long-term viability of the CentOS project.



Please use one of our  **many mirrors** to download CentOS.

CentOS Linux Version	Minor release	CD and DVD ISO Images	Packages	Release Email	Release Notes	End-Of-Life
8-Stream	N/A	DVD and NetInstall images (including checksums) are available on  mirrors	 RPMs	 CentOS Stream	CentOS Stream RHEL	N/A
8	1 (1911)	DVD and NetInstall x86_64 images are available on  mirrors ( checksums).	 RPMs	 CentOS	CentOS RHEL	31 May 2029

https://wiki.centos.org/Download



Please use one of our [many mirrors](#) to download CentOS.

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8-Stream	N/A	DVD and NetInstall images (including checksums) are available on mirrors	RPMs	CentOS Stream	CentOS Stream RHEL	N/A
8	1 (1911)	DVD and NetInstall x86_64 images are available on mirrors (checksums).	RPMs	CentOS	CentOS RHEL	31 May 2029
7	8 (2003)	DVD, Minimal, Everything, LiveGNOME, LiveKDE and NetInstall x86_64 images are available on mirrors (checksums).	RPMs	CentOS	CentOS RHEL	30 June 2024
6	10	i386 x86_64	RPMs	CentOS	CentOS RHEL	30 Nov 2020**

 sha256sum information via an https source is provided in the **Release Email** or **Release Notes** link above. You can also use the **sha256sum.txt.asc** file located in any CentOS directory with ISO or Cloud images. You should always **verify** your downloads before using.

<https://wiki.centos.org/Download>

チェックサムを確認

- これからダウンロードするファイル
(CentOS-7-x86_64-Minimal-2003.iso) の
チェックサムを確認
- 別タブで開いておく と 便利
- メーリングリストのアーカイブでも確認可能
- ファイルが改竄されていないことやダウンロードに失敗していないことを確認するため



Please use one of our  **many mirrors** to download CentOS.

CentOS Linux Version	Minor release	CD and DVD ISO Images	Packages	Release Email	Release Notes	End-Of-Life
8-Stream	N/A	DVD and NetInstall images (including checksums) are available on  mirrors	 RPMs	 CentOS Stream	CentOS Stream  RHEL	N/A
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7	8 (2003)	DVD, Minimal, Everything, LiveGNOME, LiveKDE and NetInstall x86_64 images are available on  mirrors ( checksums).	 RPMs	 CentOS	CentOS  RHEL	30 June 2024
6	10	 i386  x86_64	 RPMs	 CentOS	CentOS  RHEL	30 Nov 2020**



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<https://wiki.centos.org/Download>

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA256

087a5743dc6fd6706d9b961b8147423ddc029451b938364c760d75440eb7be14	CentOS-7-x86_64-DVD-2003.iso
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659691c28a0e672558b003d223f83938f254b39875ee7559d1a4a14c79173193	CentOS-7-x86_64-Minimal-2003.iso
101bc813d2af9ccf534d112cbe8670e6d900425b297d1a4d2529c5ad5f226372	CentOS-7-x86_64-NetInstall-2003.iso
3febddab1498f940e3127f2f5e1056d6fef57fcd559d5b70ff1bfa55a444f176	CentOS-7-x86_64-LiveGNOME-2003.iso
92be566a5b1d2aa62acf2e4ab01ba91420e7170cdb21e2e190dd1dafcb6a8c94	CentOS-7-x86_64-LiveKDE-2003.iso

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1

iQIVAwUBXqDCviTGqKf0qA61AQig3hAAq1ldkevPxuvEw86EnmPFFe+XJaCts6fp
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mlAY2GdIkjScXIU/qwfkn1OySLArFy2dT0T6eaeoDAtgwHVvzbcWnKLnRLDHypW2
4FvL+/4L584sx1TygrMRLRmEmDYz9j2QjJLzgAhx9Iyvff7qWlr1OlkNaWsmq/WB
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71o98qnWv2gUNI7VSqGBp2eyAx7I9IZWYswIvju3gATPZdQTj39yRa7dRsGSjGzl
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QwllvpfXXgI=

=VjLi

-----END PGP SIGNATURE-----

ダウンロード

- ミラーサイトからファイル（今回は
CentOS-7-x86_64-Minimal-2003.iso）
をダウンロード



Please use one of our [many mirrors](#) to download CentOS.

CentOS Linux Version	Minor release	CD and DVD ISO Images	Packages	Release Email	Release Notes	End-Of-Life
8-Stream	N/A	DVD and NetInstall images (including checksums) are available on mirrors	RPMs	CentOS Stream	CentOS Stream RHEL	N/A
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<https://wiki.centos.org/Download>

実際にチェックサムを確認

- macOSの場合はユーティリティフォルダにある“ターミナル”で確認
- `shasum -a 256 CentOS-7-x86_64-Minimal-2003.iso`
- もしくはGPGでファイル署名を検証

ターミナル

```
% shasum -a 256 CentOS-7-x86_64-Minimal-2003.iso  
659691c28a0e672558b003d223f83938f254b39875ee7559d1a4a14c79173193  CentOS-7-x86_64-Minimal-2003.iso  
% █
```

3. VirtualBox

VirtualBox

- 仮想化ソフトウェア（x86、AMD64/Intel64用）
- 例えば、macOS上でLinuxを使用可能
- 現在はOracle社が開発・配布、ライセンスはGPL
- 最新版は6.1.10（2020年6月13日時点）

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 2. See "[About VirtualBox](#)" for an introduction.

Presently, VirtualBox runs on Windows, Linux, Macintosh, 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 6.1

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 June 5th, 2020, 2020 VirtualBox 6.1.10 released!**
Oracle today released a 6.1 maintenance release which improves stability and fixes regressions. See the [Changelog](#) for details.
- **New May 15th, 2020, 2020 VirtualBox 6.1.8 released!**
Oracle today released a 6.1 maintenance release which improves stability and fixes regressions. See the [Changelog](#) for details.
- **New May 15th, 2020, 2020 VirtualBox 6.0.22 released!**
Oracle today released a 6.0 maintenance release which improves stability and fixes regressions. See the [Changelog](#) for details.
- **New May 15th, 2020 VirtualBox 5.2.42 released!**
Oracle today released a 5.2 maintenance release which improves stability and fixes regressions. See the [Changelog](#) for details.
- **New April 14th, 2020, 2020 VirtualBox 6.1.6 released!**
Oracle today released a 6.1 maintenance release which improves stability and fixes regressions. See the [Changelog](#) for details.
- **New April 14th, 2020, 2020 VirtualBox 6.0.20 released!**
Oracle today released a 6.0 maintenance release which improves stability and fixes regressions. See the [Changelog](#) for details.
- **New April 14th, 2020 VirtualBox 5.2.40 released!**

ORACLE

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

ダウンロード

- macOS版をダウンロードする場合は
「OS X hosts」をクリック（バージョン
6.1.10の場合のファイル名：
VirtualBox-6.1.10-138449-OSX.dmg)

VirtualBox 6.1.10 platform packages

- [Windows hosts](#)
- [OS X hosts](#)
- [Linux distributions](#)
- [Solaris hosts](#)

The binaries are released under the terms of the GPL



The screenshot shows the VirtualBox website's download page. The browser's address bar displays 'www.virtualbox.org/wiki/Downloads'. The page features the VirtualBox logo and a sidebar with navigation links: About, Screenshots, Downloads, Documentation, End-user docs, Technical docs, Contribute, and Community. The main content area is titled 'Download VirtualBox' and includes a paragraph about finding links to binaries and source code. It then lists 'VirtualBox binaries' with a disclaimer about license terms. Below this, it provides links to the latest 6.0 and 5.2 packages, noting their support end dates. The 'VirtualBox 6.1.10 platform packages' section contains a list of links for Windows, OS X, Linux, and Solaris hosts, with 'OS X hosts' circled in red. Further down, it mentions the GPL version 2 terms, a changelog, and checksums for verification. A note recommends upgrading guest additions. The 'VirtualBox 6.1.10 Oracle VM VirtualBox Extension Pack' section lists a link for 'All supported platforms' and describes the support for USB 2.0/3.0, RDP, disk encryption, NVMe, and PXE boot.

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VirtualBox

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 6.0 packages, see [VirtualBox 6.0 builds](#). Please also use version 6.0 for virtualization, as this has been discontinued in 6.1. Version 6.0 will remain supported until July 2020.

If you're looking for the latest VirtualBox 5.2 packages, see [VirtualBox 5.2 builds](#). Please also use version 5.2 for virtualization, as this has been discontinued in 6.0. Version 5.2 will remain supported until July 2020.

VirtualBox 6.1.10 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 downloaded packages. *The SHA256 checksums must be treated as insecure!*

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

Note: After upgrading VirtualBox it is recommended to upgrade the guest additions as well.

VirtualBox 6.1.10 Oracle VM VirtualBox Extension Pack

- [All supported platforms](#)

Support for USB 2.0 and USB 3.0 devices, VirtualBox RDP, disk encryption, NVMe and PXE boot for Intel cards are included in the VirtualBox 6.1.10 Oracle VM VirtualBox Extension Pack. The Extension Pack binaries are released under the [VirtualBox Personal License](#).

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

チェックサムも確認

- 「SHA256 checksums」のリンクをクリック



VirtualBox

search...
Login Preferences

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 6.0 packages, see [VirtualBox 6.0 builds](#). Please also use version 6.0 if you need to run VMs with software virtualization, as this has been discontinued in 6.1. Version 6.0 will remain supported until July 2020.

If you're looking for the latest VirtualBox 5.2 packages, see [VirtualBox 5.2 builds](#). Please also use version 5.2 if you still need support for 32-bit hosts, as this has been discontinued in 6.0. Version 5.2 will remain supported until July 2020.

VirtualBox 6.1.10 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 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.

VirtualBox 6.1.10 Oracle VM VirtualBox Extension Pack

- [All supported platforms](#)

Support for USB 2.0 and USB 3.0 devices, VirtualBox RDP, disk encryption, NVMe and PXE boot for Intel cards. See [this chapter from the User Manual](#) for an introduction to this Extension Pack. The Extension Pack binaries are released under the [VirtualBox Personal Use and Evaluation License \(PUEL\)](#). Please install

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](#)

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

[About](#)

[Screenshots](#)

[Downloads](#)

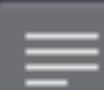
[Documentation](#)

[End-user docs](#)

[Technical docs](#)

[Contribute](#)

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www.virtualbox.org/download/hashes/6.1.10/SHA256SUMS



```
03067f27f4da07c5d0fdafc56d27e3ea23a60682b333b2a1010fb74ef9a40c28 *Oracle_VM_VirtualBox_Extension_Pack-6.1.10-138449.vbox-ex
03067f27f4da07c5d0fdafc56d27e3ea23a60682b333b2a1010fb74ef9a40c28 *Oracle_VM_VirtualBox_Extension_Pack-6.1.10.vbox-extpack
7e130a0fb74eb852ab44918088c494f0e8213b7253a5022e11fc87d5c8dbfd64 *SDKRef.pdf
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62a0c6715bee164817a6f58858dec1d60f01fd0ae00a377a75bbf885ddb0a61 *VBoxGuestAdditions_6.1.10.iso
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b18b540b3d414f569c7d768dede0baeef65518ed1c961d1d3051664e2a2dd0f6 *virtualbox-6.1_6.1.10-138449-Ubuntu-xenial_amd64.deb
```


実際にチェックサムを確認

- macOSの場合はユーティリティフォルダにある“ターミナル”で確認
- shasum -a 256
VirtualBox-6.1.10-138449-
OSX.dmg

ターミナル

```
% shasum -a 256 VirtualBox-6.1.10-138449-OSX.dmg  
ef0ca4924922514b6ad71469998821f2cf7c596b4b8b59736c3699759e0f1df8 VirtualBox-6.1.10-138449-OSX.dmg
```

```
%
```


インストールおよび起動



1 Double click on this icon:



VirtualBox.pkg

2 Run the VirtualBox application from the Applications Folder:



Applications



UserManual.pdf



VirtualBox_Uninstall.tool



仮想マシンを新規に作成



VirtualBox ファイル 仮想マシン ウィンドウ ヘルプ

新規... ⌘N
追加... ⌘A

ツール

環境設定(P) インポート エクスポート 新規(N) 追加(A)

ようこそ**VirtualBox**へ！

このアプリケーションウィンドウの左側にはグローバルツールと、コンピュータ上にあるすべての仮想マシンと仮想マシングループがリスト表示されます。該当するツールバーのボタンを使用するとインポート・追加・新規仮想マシンの作成を行うことができます。リストの右側にある要素ボタンをクリックすると、使用できるツールをポップアップすることができます。

⌘? ボタンを押すとヘルプが表示できます。



仮想マシンの名前を入力

Oracle VM VirtualBox マネージャー

名前とオペレーティングシステム

新しい仮想マシンの記述名と保存フォルダーを指定し、インストールするオペレーティングシステムのタイプを選択してください。入力した名前は**VirtualBox**でこのマシンを特定するのに使われます。

名前:

マシンフォルダー:

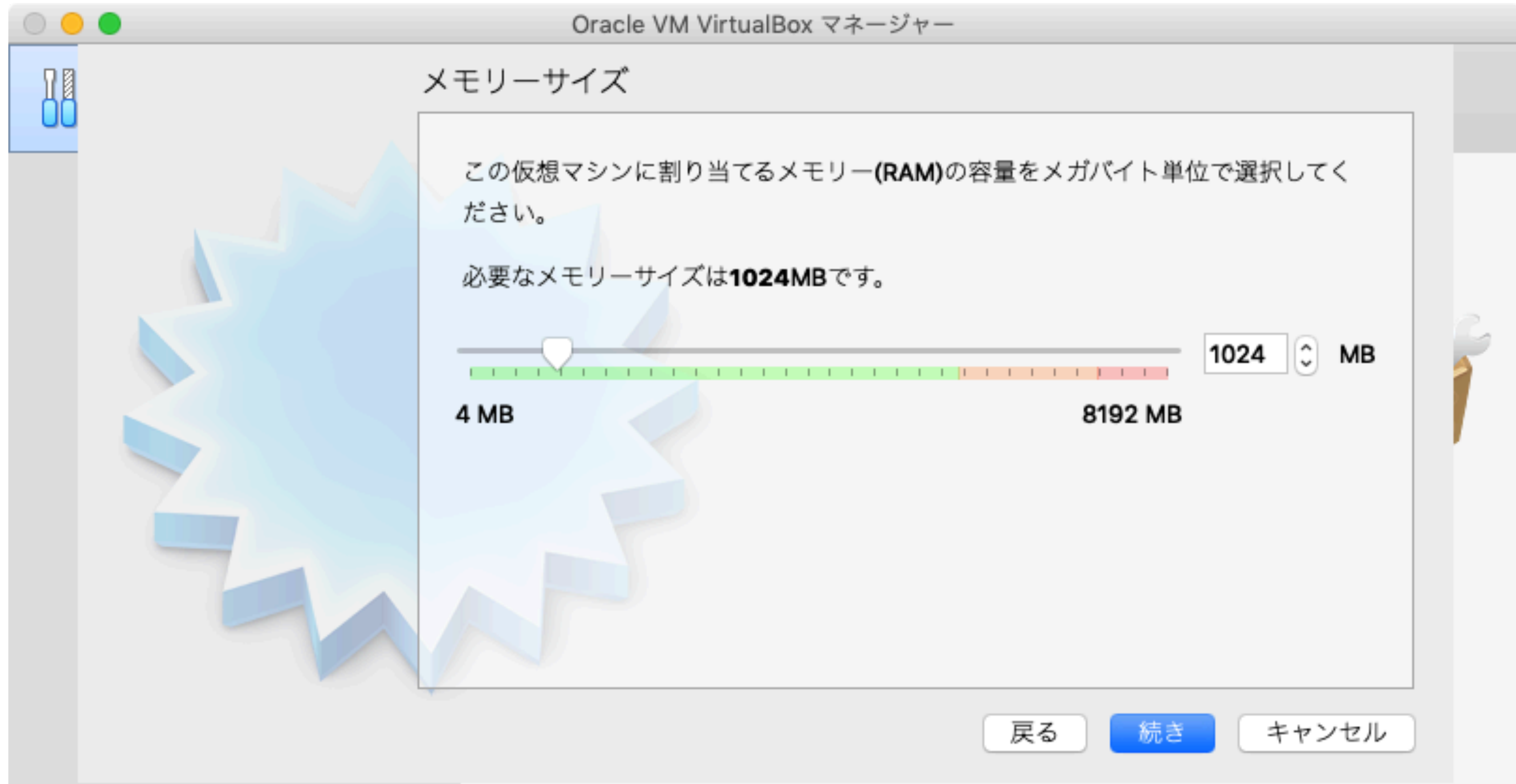
タイプ:

バージョン:

64

エキスパートモード 戻る **続き** キャンセル

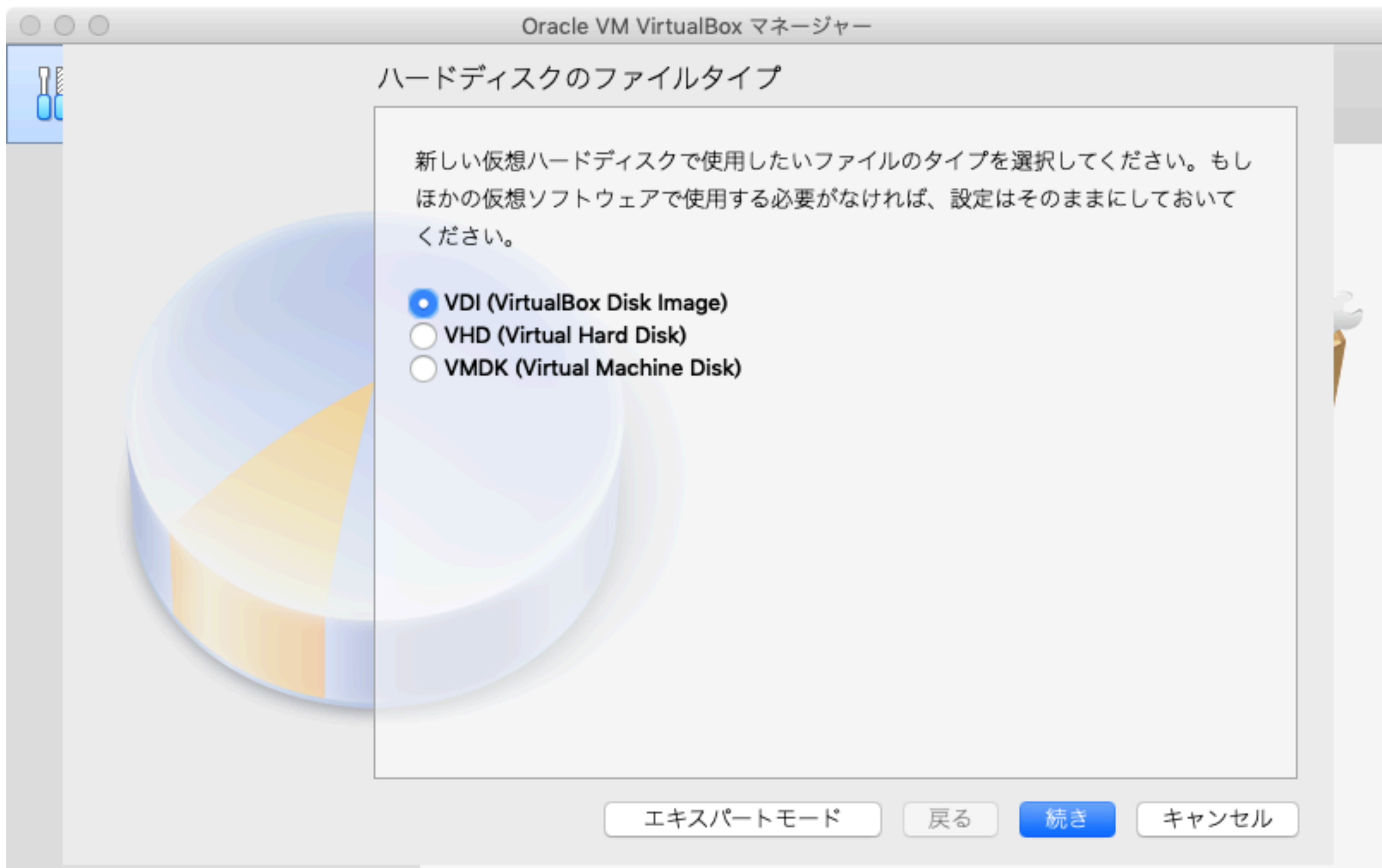
メモリーサイズを設定



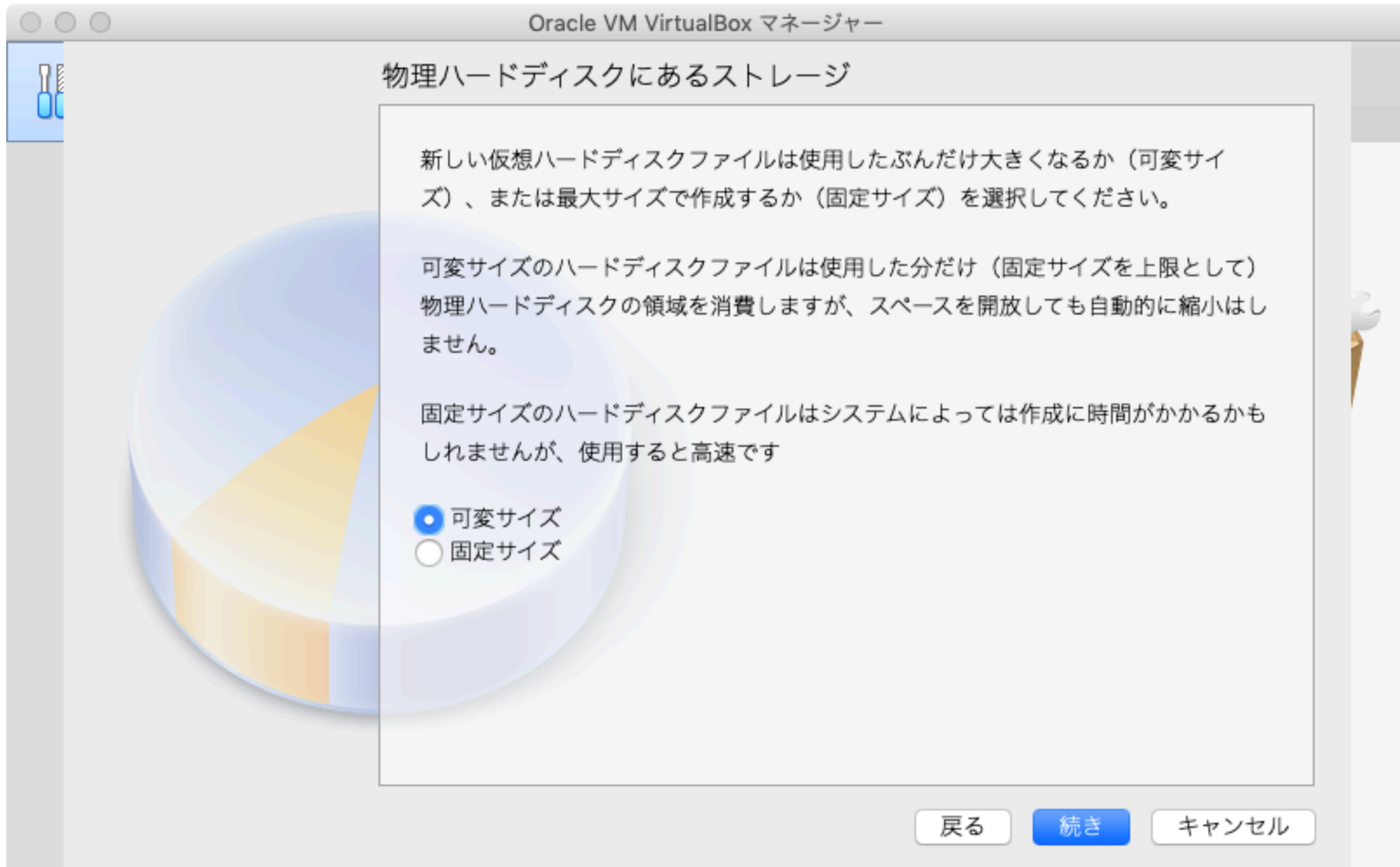
作成



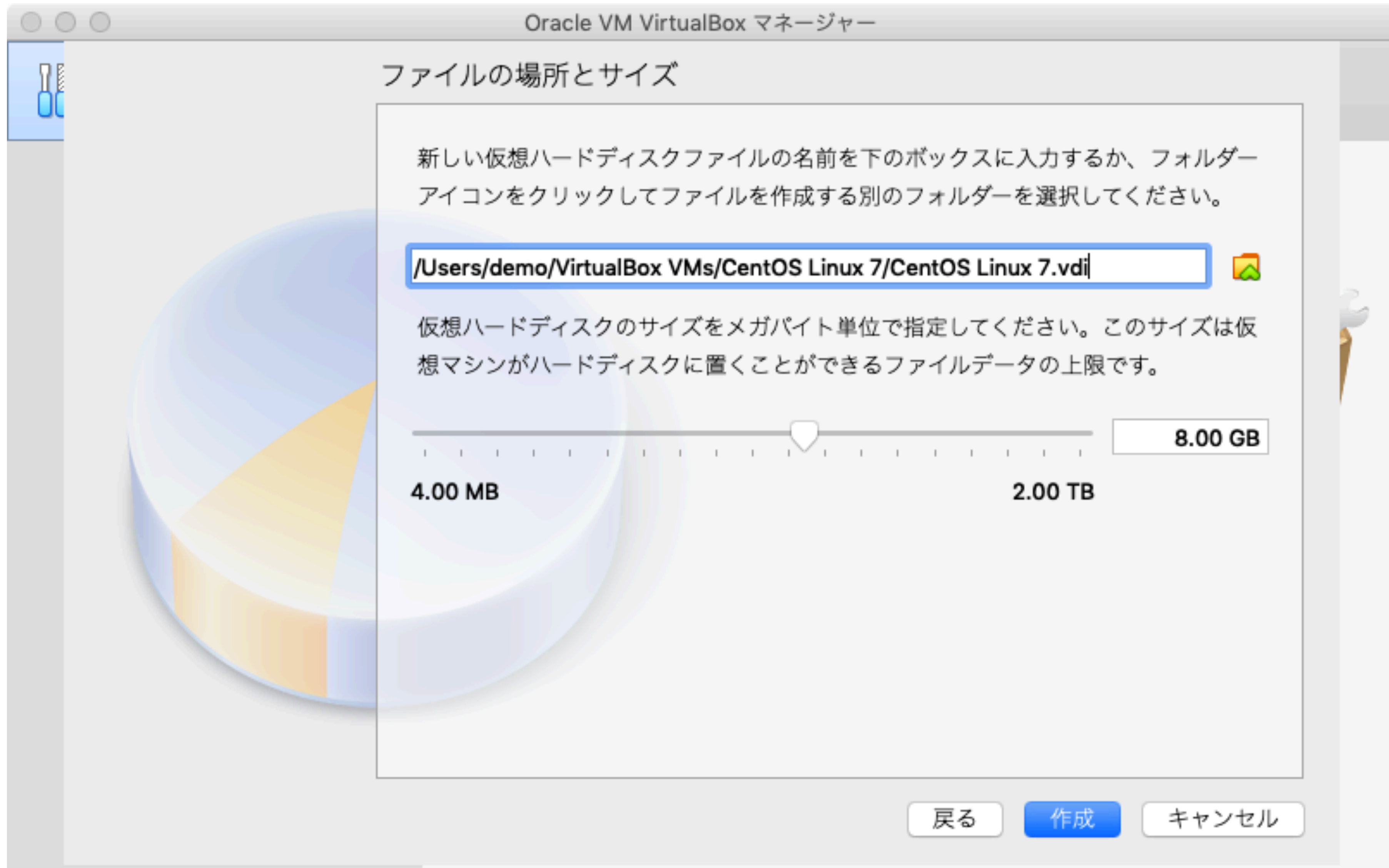
必要に応じて変更



必要に応じて変更



必要に応じて変更



“起動”でインストール開始



まとめ

まとめ

- FileMaker ServerのLinux版が復活！
- Linuxはサーバー用途では業界標準のOS
- Linux版Claris FileMaker Server 19が
2020年夏の終わり頃に提供される予定



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