

Geant4 with VMWare

For Geant4 tutorial

Contents

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VMWare information

- Though you have previous vmware, reinstall of pro version is recommended.
- VMware workstation pro (personal use)
 - Price: Free
 - Download page
 - <https://support.broadcom.com/group/ecx/productdownloads?subfamily=VMware+Workstation+Pro> (Windows version VMware)
 - <https://support.broadcom.com/group/ecx/productdownloads?subfamily=VMware+Fusion> (Mac version VMware)
 - Should register 'Broadcom' to use VMware

VMware Installation (Windows)

The screenshot shows the Broadcom website's product download page for VMware Workstation Pro. The top navigation bar includes the Broadcom logo, links for Products, Solutions, Support and Services, and How to Buy, along with search, notification, and download icons, and a user profile for KH Kim. A left sidebar contains navigation options like My Dashboard, My Entitlements, My Downloads, My Cases, and Trials & Beta. The main content area is titled 'VMware Workstation Pro' and features a 'Product Download Help' button. A yellow callout box explains that the page is reached via a specific URL after registration. Below this, a list of products is shown, with an orange arrow pointing to 'VMware Workstation Pro 17.0 for Personal Use (Windows)'. Another yellow callout box notes that 'Personal Use' should be selected for download. A blue arrow points to a zoomed-in view of the product selection process, where 'VMware Workstation Pro 17.0 for Personal Use (Windows)' is expanded to show a table of release options. An orange arrow in this table points to the '17.5.2' release version.

BROADCOM Products Solutions Support and Services How to Buy

← VMware Workstation Pro Product Download Help

Products

* You can see this page when clicking <https://support.broadcom.com/group/ecx/productdownloads?subfamily=VMware+Workstation+Pro>, after registration.

English Only

- VMware Workstation Pro 17.0 for Windows
- VMware Workstation Pro 17.0 for Personal Use (Windows)
- VMware Workstation Pro 17.0 for Personal Use (Linux)

* You should select 'Personal Use' (otherwise, you cannot download it.)

VMware Workstation Pro 17.0 for Windows

VMware Workstation Pro 17.0 for Personal Use (Windows)

Release	Release Level Info	Language
17.5.2	520448	English
17.5.1	520407	English
17.5	520406	English

← VMware Workstation Pro for Personal Use (For Windows) 17.5.2

 Product Download Help

Primary Downloads Open Source

 Search

17.5.2

520448

English

* Please check the box at here.

I accepted Terms and

Expand All

VMware Workstation Pro for Personal Use (For Windows)

Release
17.5.2

Release Level Info
520448



File Name

Last Updated

SHA2

MD5

VMware Workstation Pro for Windows

VMware-workstation-full-17.5.2-23775571.exe(618.26 MB)

Build Number: 23775571

May 10, 2024
11.06AM

2c3a40993a450dc9a059563d07664fc0fb85ae398a57d22b1b4bf0e602417bf7

c0a0353c1dade2089b55ce04ca942964

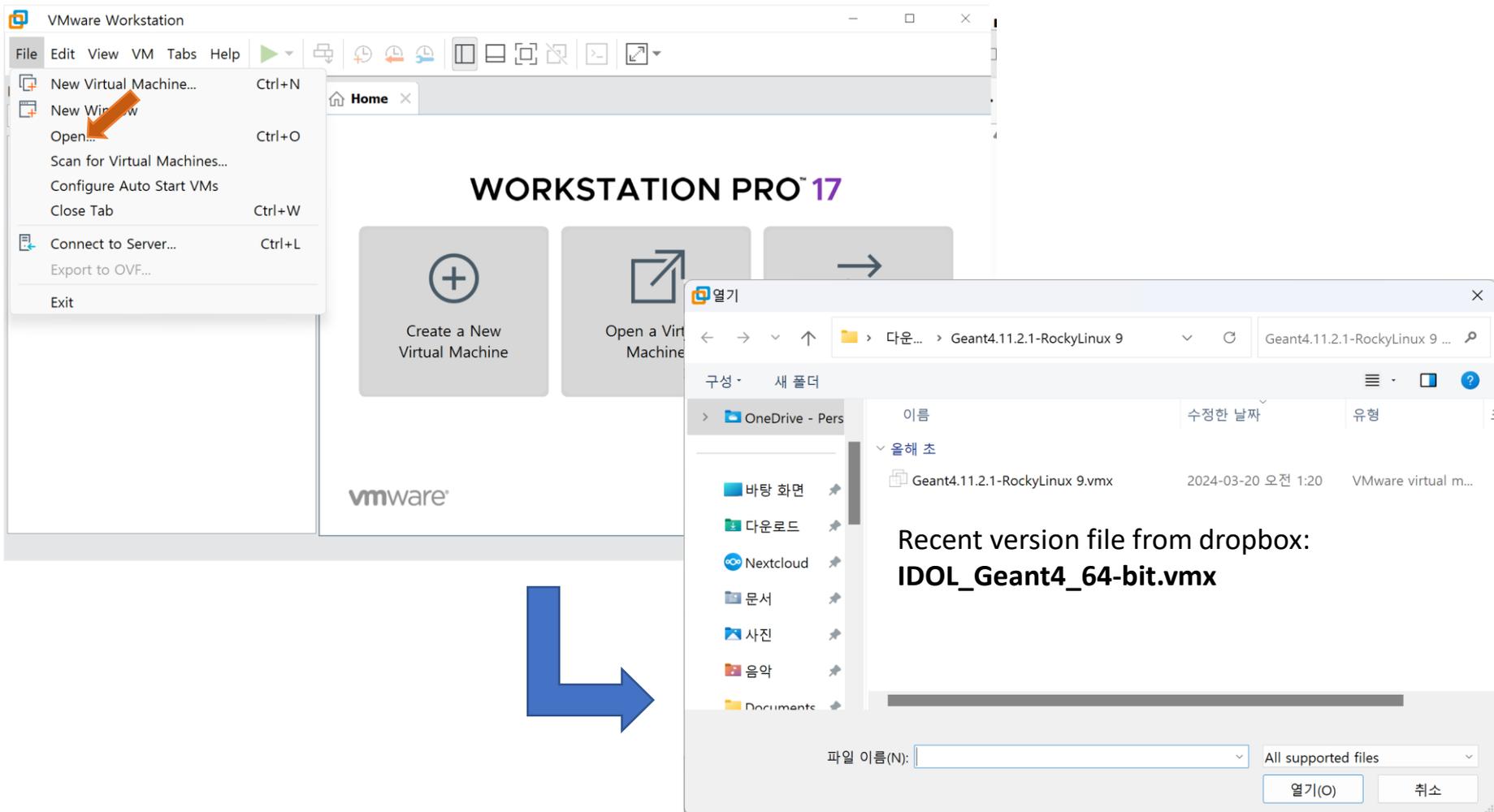




Recommend to install VMware pro at personal PC.

Running (Windows)

- Running VMware workstation pro



Geant4.11.2.1-RockyLinux 9 - VMware Workstation

File Edit View VM Tabs Help

Library

Type here to search

- My Computer
 - Geant4.11.2.1-RockyLinux 9

Geant4.11.2.1-RockyLinux 9

- Power on this virtual machine
- Edit virtual machine settings

Devices

Memory	4.3 GB
Processors	2
Hard Disk (NVMe)	20 GB
Hard Disk 2 (NVMe)	5 GB
CD/DVD (IDE)	Auto detect
Network Adapter	NAT
USB Controller	Present
Sound Card	Auto detect
Display	Auto detect

Virtual Machine Details

State: Powered off

Configuration file: D:\Settings\Dow
9\Geant4.11.2.1-f

Hardware compatibility: Workstation 17.5.:

Primary IP address: Network informat

Set Processors 4, RAM 8GB

Geant4.11.2.1-RockyLinux 9 - VMware Workstation

?

This virtual machine might have been moved or copied.

In order to configure certain management and networking features, VMware Workstation needs to know if this virtual machine was moved or copied.

If you don't know, answer "I Copied It".

I Moved It I Copied It Cancel

If you have problem while running..

- Visual C++ Redistributable download
 - <https://learn.microsoft.com/ko-kr/cpp/windows/latest-supported-vc-redist?view=msvc-170#latest-microsoft-visual-c-redistributable-version>
 - Reboot required

Architecture	Link	Notes
ARM64	https://aka.ms/vs/17/release/vc_redist.arm64.exe ↗	Permalink for latest supported ARM64 version
X86	https://aka.ms/vs/17/release/vc_redist.x86.exe ↗	Permalink for latest supported x86 version
X64	https://aka.ms/vs/17/release/vc_redist.x64.exe ↗	Permalink for latest supported x64 version. The X64 Redistributable package contains both ARM64 and X64 binaries. This package makes it easy to install required Visual C++ ARM64 binaries when the X64 Redistributable is installed on an ARM64 device.

Backup

Previous Geant4 Image download

- <https://extra.lip2ib.in2p3.fr/G4/download/>

Download the current release of Geant4 Virtual Machine

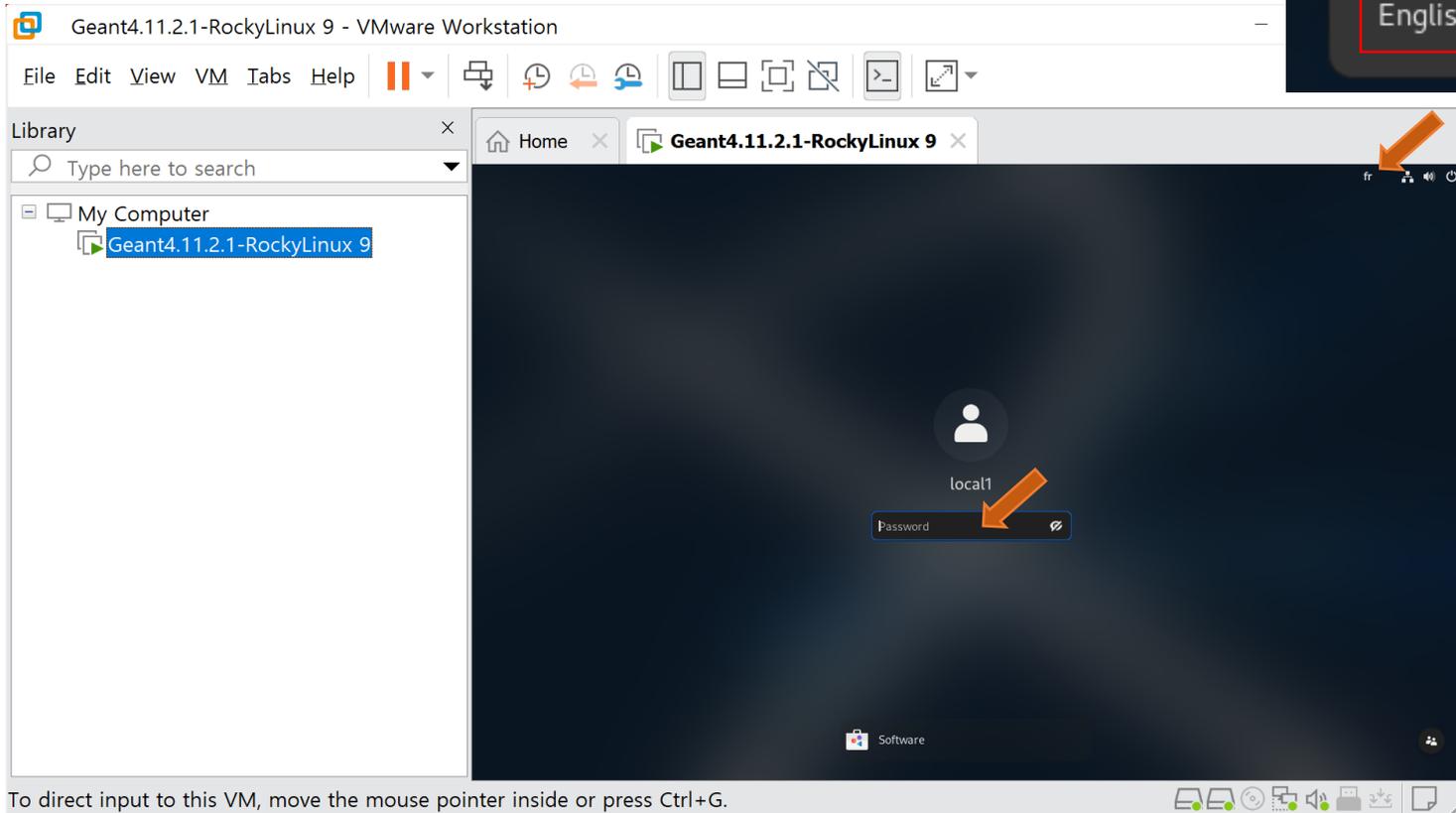
Current Stable Release :

- **VM du 13/03/2024 :** 8.5GB .7z file, 15GB after extraction
Geant4.11.2.1 => PC Windows, Mac Intel processors, (with Vmware Player/Fusion)
Geant4.11.2.1 => Mac Apple silicon chips (with Vmware Fusion)
readme

Previous Releases :

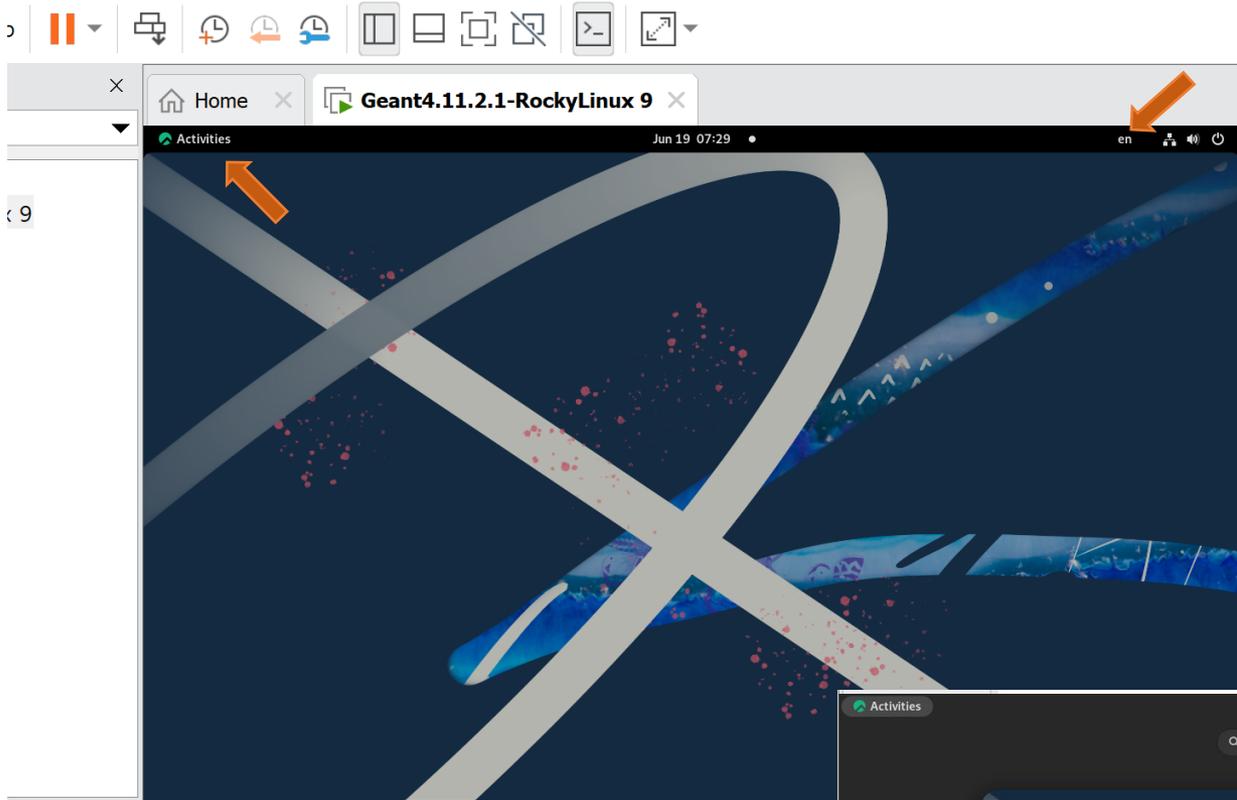
- VM du 20/12/2023 : 15GB .7z file, 27GB after extraction
Geant4.11.2.0 => PC Windows, Mac Intel processors, (with Vmware Player/Fusion)
Geant4.11.2.0 => Mac Apple silicon chips (with Vmware Fusion)
readme

1) You should change the keyboard layout from fr to en before typing password



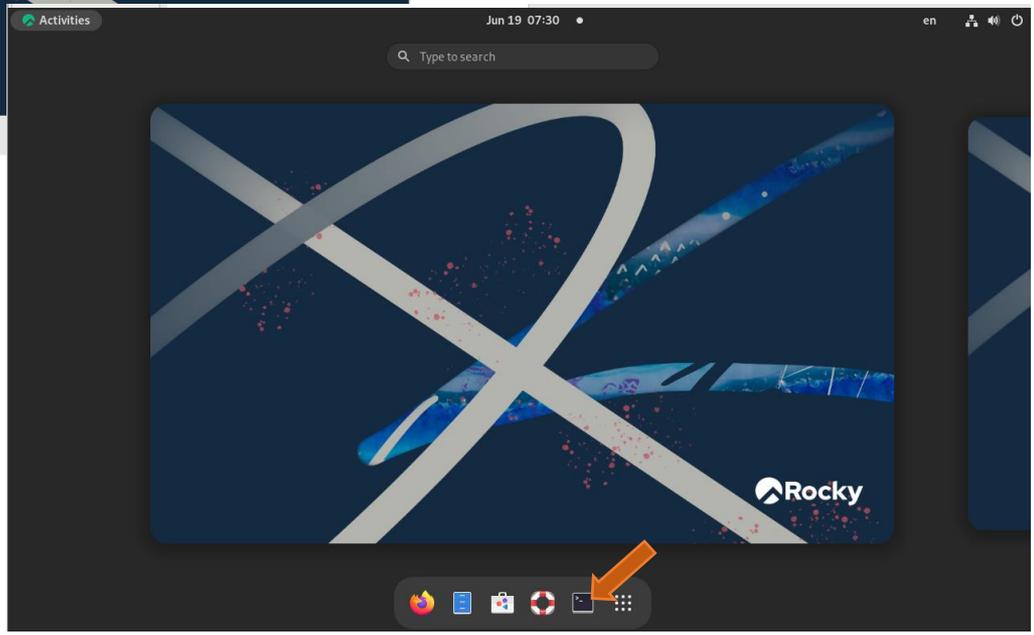
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

- 2) 자판 변경 후 password 입력 (계정명과 같음)
에러가 날 경우 자판을 변경했는지 확인하고 다시 입력
- 3) 로그인 한 후에도 자판 변경을 해줘야 합니다!



- 1) Check language and change fr -> en
- 2) Activities -> terminal

Click mouse pointer inside or press Ctrl+G.



* Geant4 installation folder: /usr/local/geant4.11.2.1

Run the basic example (B1)

mkdir test

cd test

cp -r \$G4EXAMPLES/basic/B1 ./

cd B1

mkdir build

cd build

cmake ../

make -j2

./exampleB1

