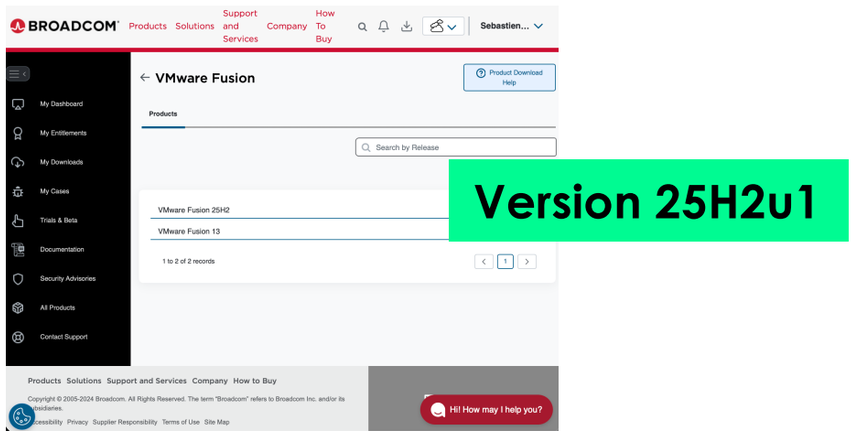
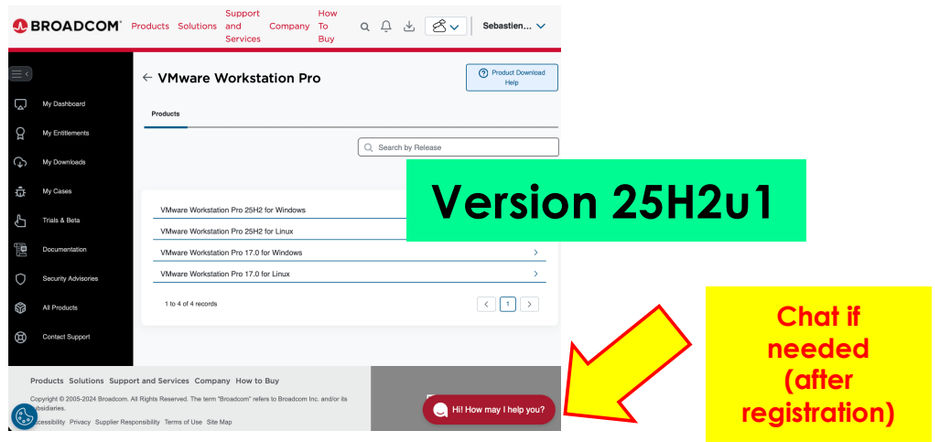
Step 1: install VMware Fusion or Workstation

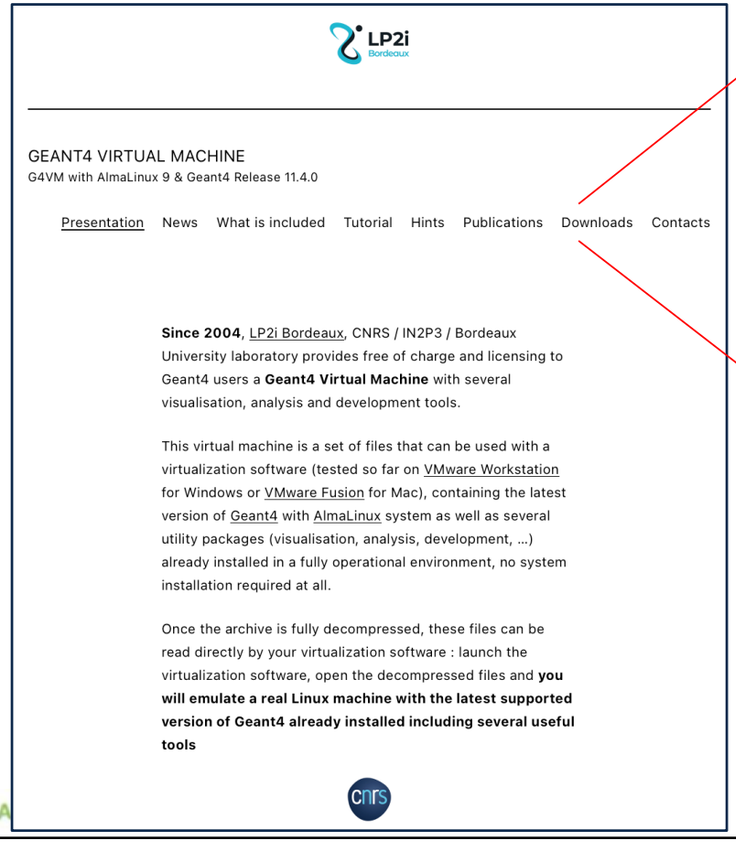
- Download virtualization software from https://www.vmware.com
  - **Products → SEE DESKTOP HYPERVISORS → DOWNLOAD NOW**
    - **Fusion** is for **macOS**, **Workstation** is for **Windows & Linux**
  - Redirected to Broadcom : **register**… (First Name, Last Name, E-mail, Institution…)
  - Go to **My Downloads** (left hand side menu)
  - Click on **Free Software Dowloads avalaible HERE**
  - Search **Fusion** for **macOS** or **Workstation Pro** for **Windows or Linux**
  - Select **VMware Fusion 25H2u1** for **macOS** or **VMware Workstation Pro 25H2u1** for **Windows or Linux**
  - Download and install
    - Even if you already have an existing working version of WMware (it will be upgraded automatically)

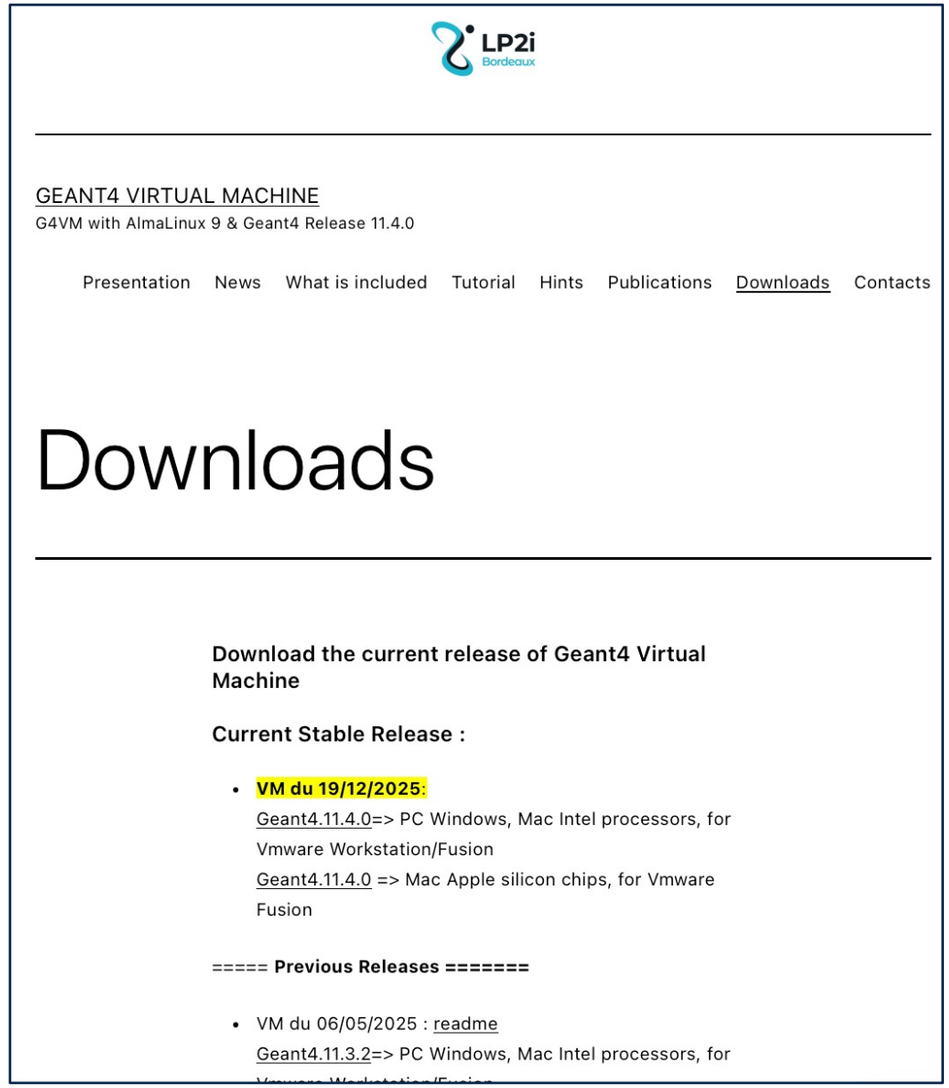




Step 2: download the virtual machine

- Go to https://geant4.lp2ib.in2p3.fr
  - Go to **Downloads** section
  - Select the virtual machine you need
    - **Geant4 11.4.0**
    - A few 20 Go to download…
  - You may also check the README file





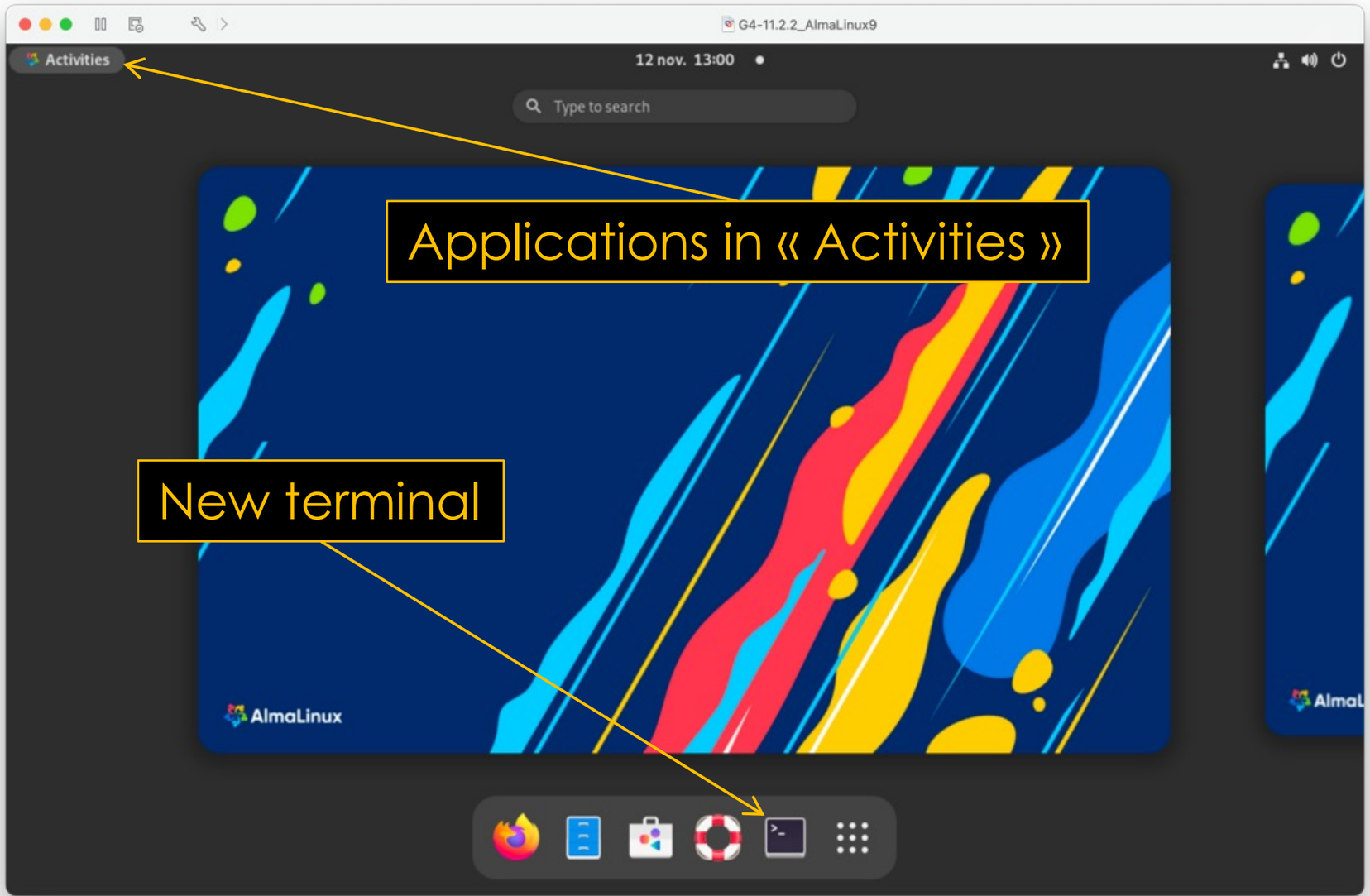
Step 3: uncompress the virtual machine

- Start VMware Fusion or VMware Workstation Pro
- Uncompress the downloaded archive and open the ***vmwarevm** file (Mac) or the ***.vmx** file (Windows)
- The virtual machine will start
- You may customize the VM properties according to your PC/Mac
  - e.g. amount of memory to allocate, number of processors…

- **Important**
  - Read carefully the following README file containing information about requirements and how to proceed.
  - If asked, declare that the virtual machine **has been copied** (and not moved).
  - On **Windows**, you may uncompress your archive using the 7-Zip application, freely available.
  - **Windows** users may need to check that virtualization has been activated in the BIOS.
  - The total compressed file size is about 20 Go and reaches 30 Go when fully decompressed.

Your virtual machine

Your local account *username* and *password* are
local1
local1



If Internet is not working (Fusion, v. 25H2)

```
g4vm:/local1 < 63 >nmcli device
DEVICE  TYPE      STATE                   CONNECTION
lo      loopback  connected (externally)  lo
enp2s0  ethernet  disconnected            --
```

This is your network device name.

```
g4vm:/local1 < 87 >nmcli connection up enp2s0
Error: unknown connection 'enp2s0'.
g4vm:/local1 < 88 >nmcli connection show
NAME    UUID                                  TYPE      DEVICE
lo      a36a4b2f-f1ac-4dd4-8335-d15dfa929ac6  loopback  lo
ens160  7f871b38-1f33-39cb-bab8-4eda0a5ac240  ethernet  --
```

If you don't have the same device name here.
Please try following commands!

```
g4vm:/local1 < 100 >sudo nmcli connection delete ens160
Connection 'ens160' (7f871b38-1f33-39cb-bab8-4eda0a5ac240) successfully deleted.
g4vm:/local1 < 101 >sudo nmcli connection add type ethernet ifname enp2s0 con-name enp2s0 ipv4.method auto ipv6.method auto
Connection 'enp2s0' (0f5bb16d-2e3b-4cc9-b68e-67a7f23c8b21) successfully added.
g4vm:/local1 < 102 >nmcli connection up enp2s0
Connection successfully activated (D-Bus active path: /org/freedesktop/NetworkManager/ActiveConnection/3)
g4vm:/local1 < 103 >
g4vm:/local1 < 103 >ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=111 time=10.6 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=111 time=14.7 ms
```

- In a terminal, type
  - **`nmcli device`**
    - Look at the device name which is disconnected (e.g., enp2s0)
  - **`nmcli connection show`**
    - Look at the device name that is connected to ethernet (e.g., ens160)
  - **`sudo nmcli connection delete ens160`**
    - Enter: local1
  - **`sudo nmcli connection add type ethernet ifname enp2s0 con-name enp2s0 ipv4.method auto ipv6.method auto`**
  - **`nmcli connection up enp2s0`**
- Try internet again (e.g., firefox)

Thanks to D. Sakata & C. Seznec