About The Open Porous Media

The Open Porous Media (OPM)\(^1\) initiative encourages open innovation and reproducible research for modeling and simulation of porous media processes.

Follow these steps below for an alternative successful installation on a Windows system.

1. Download and Install VMWare WorkStation 14 for Windows from this link [https://www.vmware.com/products/workstation-pro/workstation-pro-evaluation.html](https://www.vmware.com/products/workstation-pro/workstation-pro-evaluation.html).

   - After successful Installation, Restart your PC and enable Virtualisation Technology
   - You can then install a Linux version of your choice, in my case I downloaded Kubuntu ([https://kubuntu.org/getkubuntu/](https://kubuntu.org/getkubuntu/)) and Installed Kubuntu on the VMWare.
   - If the installation is complete, then open Kubuntu by initialising the VMWare (Double Click the VMWARE Application) as shown in figure 1 below

![Figure 1: Initialising VMWare](image)

\(^{1}\text{https://opm-project.org/}\)

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*http://fast.must.ac.ug/fast-staff/allan-katende/

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Alternative to Insalling OPM on Windows;

By Allan Katende
2. Click Open Virtual Machine and Select the Ubuntu 64bit as shown in Figure 2 below

![Image of Ubuntu installation process](image1.png)

Figure 2: Starting the Kubuntu through the Virtual Machine

3. It should appear as shown in Figure 3 below

![Image of Ubuntu desktop](image2.png)

Figure 3: Starting the Kubuntu through the Virtual Machine
4. Click Play Virtual Machine and then logon as shown in Figure 4 below.

5. Once you logon, open the console Window and then Install Open Porous Media by following the instructions by Carl Fredrik Berg in this video: https://www.youtube.com/watch?time_continue=1&v=r1hl11vw09c

6. You can then run a Test Case of SPE1 by changing to that directory and then run the Flow Simulator as shown in Figure 5 below.

Figure 4: Logging on to Kubuntu

Figure 5: Running SPE1 through the Flow Simulator
7. If the simulation is successful, there should be no errors in the simulation as shown in Figures 6

![Figure 6: Running SPE1 through the Flow Simulator-CHECKING for Errors](image)

8. You can then open the PRT summary file with emacs as shown in Figure 7 below

![Figure 7: Running SPE1 through the Flow Simulator](image)
9. Open ResInsight and Visualize the model as shown in Figures 8 and 9

Figure 8: Visualising the Model Through ResInsight

Figure 9: Visualising the Model Through ResInsight

**End of Installation—Enjoy!!**

**Opening and Closing**

You can then repeat steps 6 to 9 whenever you would like to run a simulation case

**Enjoy!!**