

0.1. Connect to the server

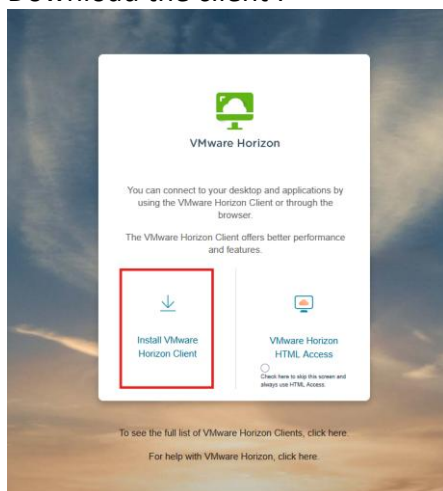
From the spring semester 2024-2025, the EPFL EDA infrastructure migrates from selsrvs to the EPFL [SCITAS HPC cluster](#). This migration comes with the end of support of the historic selsrv1 and 2 servers, and provides strong improvements in terms of computing capabilities. For this lab, we use the SCITAS jed cluster.

/!\ Disclaimer /!\

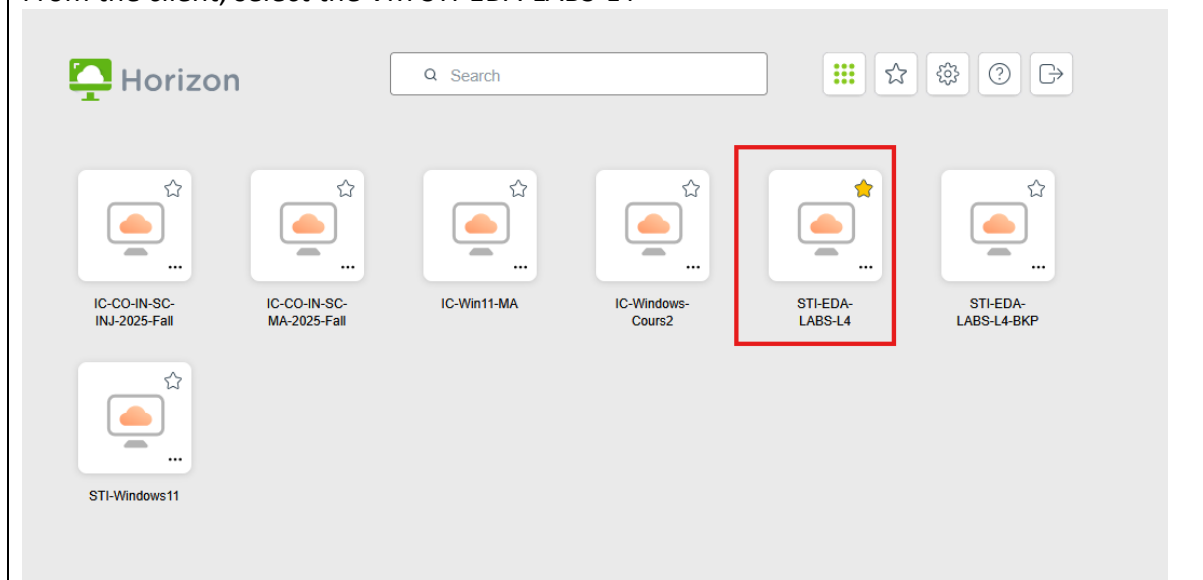
The access to the JED cluster for classes on EDA is solely reserved for educational activities and shall not be used for research. If you start a semester or master project within a lab and it requires EDA tools, please synchronize with your advisors and the EPFL EDA team (alexandre.levisse@epfl.ch) to get access to a dedicated environment.

From a thin client in a computer room, connect to the VDI machine STI-EDA-LABS-L4. From your own computer or a from windows computer in a computer room, EPFL VDI recommends the utilization of the VMWare horizon client and limit the utilization of the web client which is less stable a more resources consuming.

Download the client :



From the client, select the VM STI-EDA-LABS-L4



Description of the work configuration:



From your computer (or the thin client), connect to VDI.

From VDI connect to the jed cluster. Run the EDA environment from there.

Why this setup ?

- Reliability :
 - o The link between the VDI VM and the EDA environment is stable
 - o You can turn off and on your computer or lose wifi without losing your work
- Resources management
 - o Non-used VDI VMs are killed after 1.5h if not used, i.e., releasing non-used resources and software licenses.

How to connect to the servers ?

To connect to the Jed cluster, from the linux VM, open a new terminal and type the following command :

```
> ssh -X username@jed.hpc.epfl.ch
```

Where username is your gaspar username.

To setup the EPFL EDA environment on SCITAS, run the following command :

```
>/work/fvlsi/run_edadk
```

This command shall be run for every new terminal. It does the following :

- Connect a node in the jed cluster
- Configure the EPFL EDA environment
- With this command your cluster reservation has the following parameters :
 - o 4cores and 16GB of RAM
 - o A 12h per session uptime – this means that after 12h your connection to the node cluster will automatically close. You would need to run the >/work/fvlsi/run_edadk command again.

Alternative solution if you do not want to type the complete path, you can create once a symbolic link in your home directory with the following command. Then you can directly start the environment from your home directory.

From the jed cluster :

```
> cd → places yourself in your home directory : /home/username/
```

```
> ln -s /work/fvlsi/run_edak → creates a symbolic link in your home directory
```

Once you have a symbolic link, you can simply run the following command

```
> cd → places yourself in your home directory : /home/username/
```

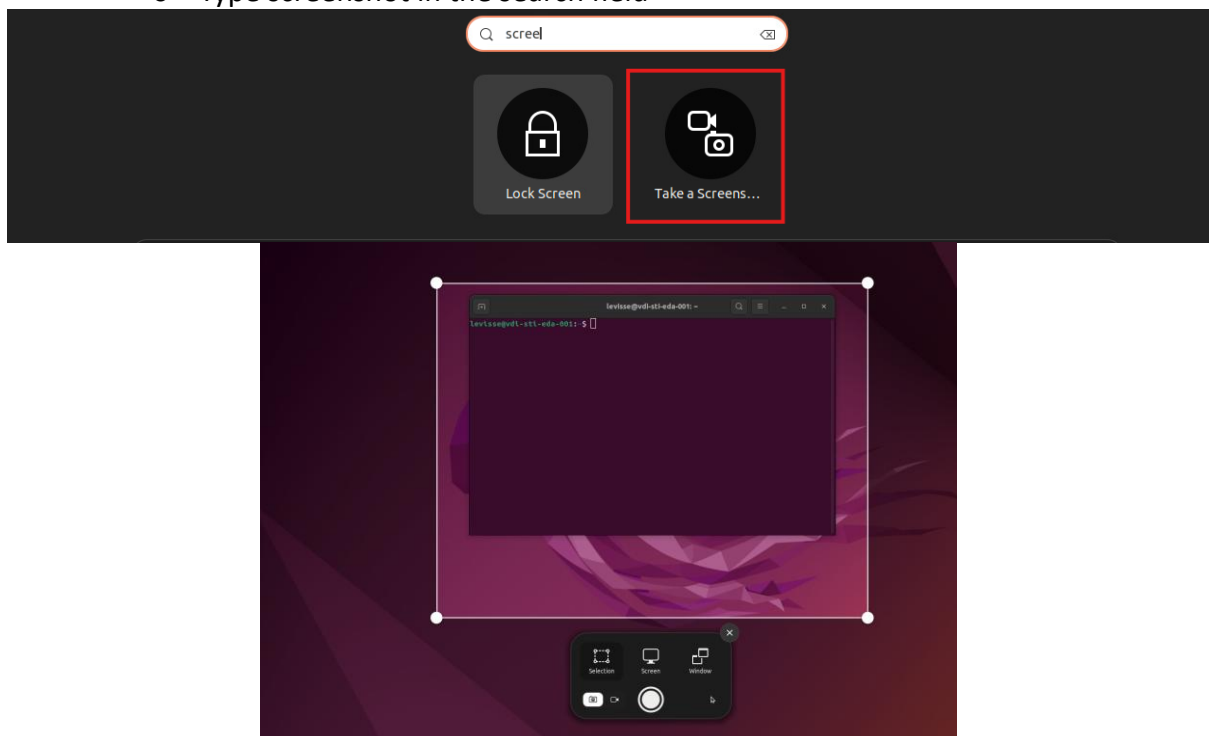
```
> ./run_edak
```

```
> ./run_edak
```

Additional features you may need :

Screenshots - Along the labs, you will be asked to deliver screenshots.

- From a windows computer, screenshots can be done from the host computer.
- From a computer room thin client, you can do screenshots from the VDI VM.
 - Bring the mouse on the top left corner of the screen, or click on “activities”.
 - Type screenshot in the search field



- Select the area and save it under your EPFL storage.
 - Be careful, in a VDI VM, the home directory is not saved. So do not save data in there.
 - Save your data in the MyFile folder

