Standalone combine on CernVM

Prerequisites

You should have access to CERN IT resources. If you are a CERN user you can use your account, otherwise you can request a lightweight account.

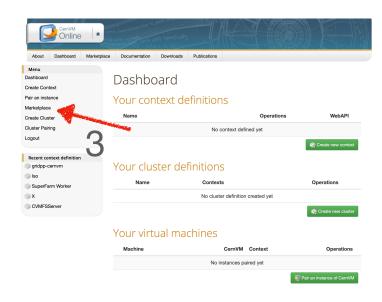
If you have a CERN account, we strongly suggest you simply run the standalone installation on lxplus, which is simpler and faster than using a VM

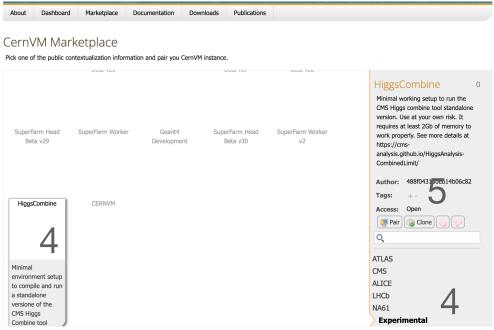
You should have a working VM on your local machine, compatible with CernVM

 The following example will be set up using CernVM with VirtualBox. All the required software can be downloaded here: https://cernvm.cern.ch/appliance/

Step 1. Load context

- 1. Go to https://cernvm-online.cern.ch/dashboard/
- Access with your CERN credentials
- 3. Click on "Marketplace"
- 4. Select Experimental ->HiggsCombine
- 5. Then "Clone" and go back to the dashboard
- You can create you own context if needed with "Create Context"

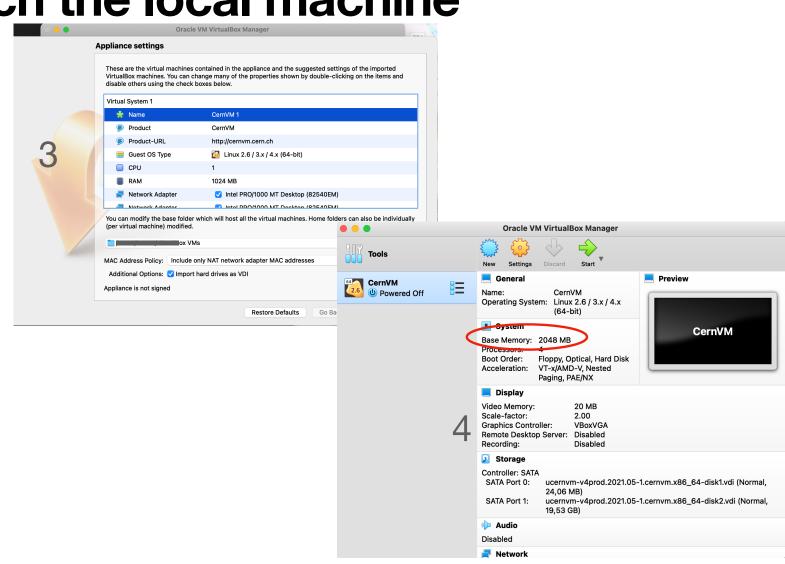




Step 2. Launch the local machine

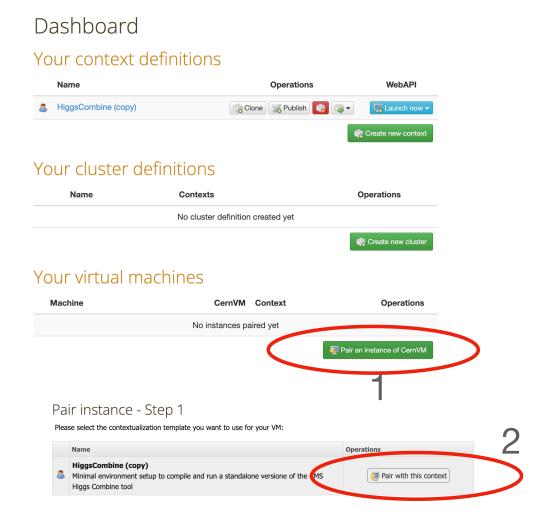
- Launch the local instance of the VM (with VirtualBox or other software you are used to)
- 2. It can be downloaded here:

 http://cernvm.cern.ch/
 releases/production/cernvm4-micro-2020.07-1.ova
 (please check for newerversions)
- Leave the default settings and click "Import". If you need to reduce the local memory usage, please notice that combine will need at least
 2Gb of base memory to run properly, and we suggest using 20Gb of local memory
- 4. If everything went fine, you should see your CernVM, configured and powered off



Step 3. Launch the remote machine

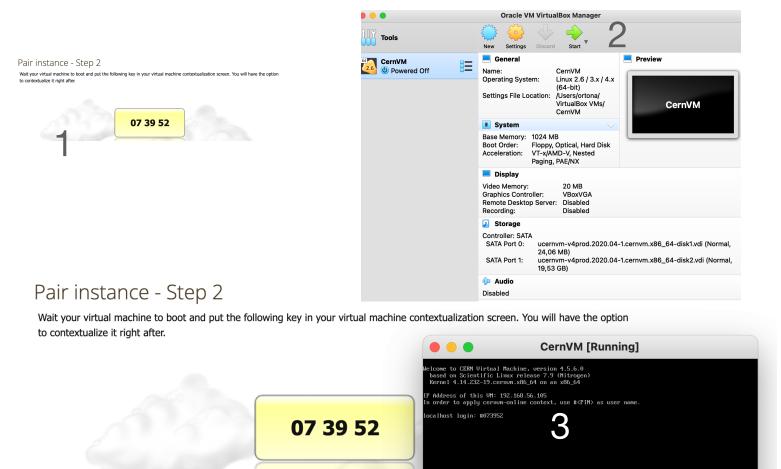
- Click on Pair an instance on your dashboard
- 2. In the following step, it asks you which context to use. Select the HiggsCombine context



Step 4. Pair the instances

- After selecting the context, the website will show you a 6 digits PIN
- 2. Start the local machine (from VirtualBox, click "Start")
- once prompted for a username, enter <#PIN>
- This will pair the VM. The system will now boot
- 5. Once prompted for username and password again, use the following:

username: *user* password: *hcomb*



you can now proceed with the standalone combine installation