

**Cloudera:** Admin Cloudera  
Administrator Training for Apache  
Hadoop

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[Hands-On Exercise: Accessing the Exercise Environment](#)

## Hands-On Exercise: Accessing the Exercise Environment

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### Overview of the Exercise Environment

In this training course, you will use a cloud environment consisting of six virtual machines (VMs). The GNOME Desktop of one of the VMs, named ConnectToCluster, is accessible via web browser. From the ConnectToCluster VM you will be able to ssh to the Hadoop cluster VMs and access the various browser interfaces used in the course exercises.

You can access the virtual machine(s) for the course through a web browser HTML5 interface.

### Opening the Exercise Environment Portal

Each exercise will have a section at the top with a button that allows you to open the environment portal. This portal will display only the VM(s) needed for the course you are currently working on (in other words, the VM(s) for the course you were in when you clicked the button to open the portal). If you have other VM(s) in the portal for other courses, they will be hidden until you use this tool to launch the portal from the other course.

The portal will open in a new window or tab. It may take a minute or two to open; please be patient.

You can also use this tool to change the keyboard language setting on the VM. Be aware that the VM must be *stopped*, not just *suspended*, in order for the keyboard language to be changed. If you change the VM keyboard language, be sure to also change the keyboard language setting within the VM's operating system, which is CentOS. Select System -> Preferences -> Keyboard -> Layout to change the OS keyboard language.

**Note:** The environment portal opens in a pop-up window. **You must allow pop-ups from ondemand.cloudera.com or your environment portal will not be able to open.** If you do not know how to enable pop-up windows for a particular web site in your browser, use

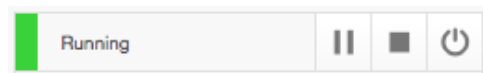
a web search engine to search for “enable pop-ups” and the name of your browser program.

## Starting the VM(s)

When you first open the portal, the VM(s) will be either powered off (shut down) or suspended. To start a VM, click the play button above the VM name.



When the VM has finished starting, its thumbnail will turn green and the status will change to "Running".



At this point, you can click on the thumbnail of the VM screen or the name of the VM to open it.

## Time Limit on Environment Portal

Every environment portal has a time limit. After the configured number of hours has been used, the portal will become inaccessible. The time remaining for a portal is displayed in the upper right corner of the portal screen, as shown below. It is also displayed in the upper right corner of the VM(s) as they are running.



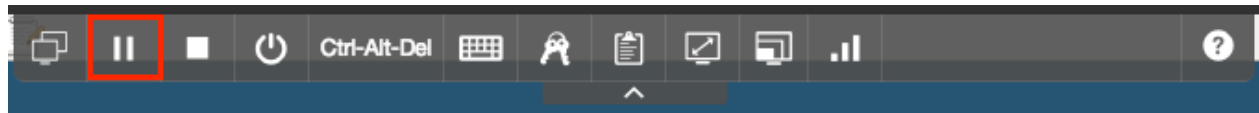
**Note:** If you have one of our library subscriptions, your subscription includes a single environment portal with a single pool of hours. The time limit on this portal applies to all your VM use across all courses. In other words, if you have 100 hours on your portal, and you use 6 hours in one course, you will have 94 hours left to use in the other courses.

The time provided should be sufficient to complete the course exercises. However, if you need to purchase more time, please contact [ondemand-feedback@cloudera.com](mailto:ondemand-feedback@cloudera.com).

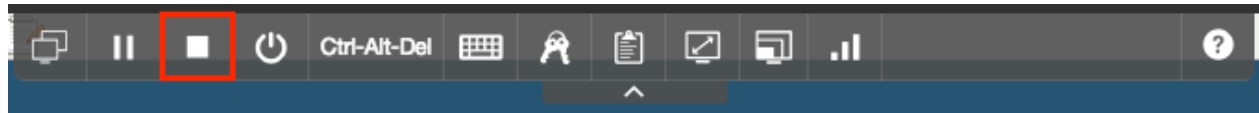
## Suspending or Shutting Down VM(s)

**To preserve the time remaining in your environment portal, make sure to either suspend or shut down all your VM(s) each time you are done using them.**

To suspend a VM, click the Pause icon (pictured below) in the VM toolbar. This will preserve the state of your windows and applications for the next time you start the VM. However, you cannot change the keyboard language setting while the VM is only suspended.



To stop a VM, click the Shut Down icon (pictured below) in the VM toolbar. This is the equivalent of shutting down the machine from the operating system. In other words, all your windows and applications will also shut down. Shutting down a VM enables you to change the keyboard language setting when you next open it, if you wish.



## Issues After Restarting Suspended VM(s)

You may experience issues with connecting to services or services not showing a healthy state after restarting suspended VMs. (Suspending machines in this way is not something that would ever be done in a production environment, so you won't run into this in the real world.) If you are having problems, please refer to these pinned discussion posts:

Cloudera Manager is inaccessible from ConnectToCluster VM's browser

CM errors related to the Service Monitor and/or health status of the cluster services unknown

## Testing Access to the Environment Portal

We recommend that you test access to your environment portal and the course's VM(s) now, so that any issues can be resolved before you want to work on your first exercise. Use the tool below to open your environment portal and populate it with the VM(s) for this course. Try starting one of the VMs and opening it. Wait a minute or two for the OS and VMWare Tools to finish loading, then suspend or shut down the VM.

If you have any issues with VM access, please email [ondemand-feedback@cloudera.com](mailto:ondemand-feedback@cloudera.com). You can also try running the Skytap Connectivity Checker tool (Skytap is the provider that hosts our virtual environments). Select the region closest to you for the connectivity test and use the links in the tool to troubleshoot your issue, or send the results to [ondemand-feedback@cloudera.com](mailto:ondemand-feedback@cloudera.com) for assistance.

## Open the Exercise Environment Portal

Select your preferred keyboard layout:

[Open](#)

***Don't forget to suspend or shut down your VMs when you are done using them!***

*If you are having issues accessing your exercise environment, please contact [ondemand-feedback@cloudera.com](mailto:ondemand-feedback@cloudera.com).*

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## Discussion

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**Topic:** The Case for Apache Hadoop / Hands-On Exercise: Accessing the Exercise Environment

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