Data Center Rack Rental Access Guide » Data Center Technology Lab Resources

Data Center Rack Rental Access Guide

Last updated: February 3, 2014

Resources

This guide describes how to use the INE CCIE Data Center Rack Rentals that complement the CCIE Data Center Technology Lab Online Workbook.

Important Notes

- To rent Data Center racks, you must have purchased the Data Center Online Workbook. You can read about, preview, and purchase the workbook here.
- You may rent a Data Center rack for up to 85 hours per month. Data Center rack add-ons are also limited to 85 hours per month.

Common Problems Scheduling a Rack Session Passwords Scheduling Data Center Rack Add-ons Loading and Saving Configurations Canceling a Rack Session Connecting to NX-OS Devices CLI Using the Rack Control Panel Connecting to Windows Virtual Machines Connecting to ACE Apache VMs and UCS Blade ESXI Instances

Common Problems

Telnet Connection Warning

Some Telnet clients will close the Telnet window if the connection cannot be established. This behavior prevents you from seeing error messages that indicate the line is in use, so it's a good practice to disable this behavior in your Telnet client. If you do not see a command prompt when you establish a Telnet connection, you may need to press Enter to "wake up" the device.

Important Configuration Changes

When you load a saved configuration into the UCS, you must change the interfaces in use to match the Data Center rack you are using; our automation cannot make this modification for you. You will find the necessary configuration changes in the reminder email you receive before your rack session.

Y Note:

Currently, ONLY UCS can be loaded. N7K and N5K cannot be loaded at this time. Thank you for your patience as we work to remove this limitation.

Port Speed Information

If you receive an error message stating, "SFP validation failed," you must manually set the port speed to 1G (1000) because Nexus does not support auto-negotiation from 10G to 1G.

Scheduling a Rack Session

You schedule your Data Center rack session through your Members account. When you sign in to the Members site, you will see a page like this:

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All Access Pass		
Workbooks		
Rack Rentals	For Workbooks click here.	
/ Mock Labs		
Graded Labs	Data Center	
Bookmarks		
Resources	Product Name	Format
Store	Video-on-Demand	
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V INE Homepage	CCIE Data Center: Nexus Course Download CURRENT	download
Online Community	CCIE Data Center: Nexus NX-OS Primer Download CURRENT	download
Account Information	CCIE Data Center: Storage Course Download CURRENT	download
Profile	CCIE Data Center: Unified Communications on UCS (Now Available!)	stream
Account Activity	CCIE Data Center: Unified Communications on UCS Download (Now Available!)	download
Log Out	CCIE Data Center: Unified Computing Course Download CURRENT	download
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In the **Reserved Sessions** area, the **Active Sessions** tab displays any sessions that have already started. These sessions cannot be cancelled. The **Upcoming Sessions** tab displays your reserved sessions, which can be cancelled at any time before the start time of the session.

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Data Center Rack Rental Quick Tour		
BASE 5K/7K I UCS/SAN ADD-ON	CE ADD-ON CS CONTRACT ADD-ON CS	Current Balance
		636 tokens
Start Date Duration	End Date	
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		Start Date Duration
		2013-06-20 01:00 AM dC ucs 47:00:00

Passwords

Device	IP Address	Username/password (case-sensitive)
Apache1	10.0.110.1	root / Cciedc01
Apache2	10.0.110.2	root / Cciedc01
Apache3	10.0.110.3	root / Cciedc01
ESXi1	10.0.115.11	root / cciedc01

ESXi2	10.0.115.12	root / cciedc01
ESXi-VMFEX	10.0.115.21	root / cciedc01
Win2k8-BM	10.0.114.21	Administrator / Cciedc01
ACE		cisco / ciscocisco or admin / Cciedc01
N7K and N5K		cisco / cisco
MDS		cisco / cisco (role = cisco)

Scheduling Data Center Rack Add-ons

Data Center Rack Rentals are modular.

By default, each 'Base 5K/7K' rental includes access to 2 x Nexus 7000 VDCs, 2 x Nexus 5000s, and 2 x Windows Server Virtual Machines.

- By selecting the UCS/SAN Add-On, you also get access to the UCS Blade Server chassis, UCS 6200 Fabric Interconnects, MDS 9200 SAN Switches, and the Fibre Channel SAN.
- By selecting the N2K/SAN Add-On, you also get access to the Nexus 2000 Fabric Extenders with a 10GigE attached server, MDS 9200 SAN Switches, and the Fibre Channel SAN.
- By selecting the ACE Add-On, you also get access to the ACE 4710 application switch.



Note that not all labs require each Add-On. You can determine which labs need which Add-Ons by comparing the Data Center Rack Rental Access Guide CCIE DC Physical Diagram, located in the Resources section in the upper-right corner of this page, with the diagram for the individual workbook section that you are working on.

Use the following general guidelines to help determine which add-ons you need:

- The Nexus labs require only the Base N5K/ N7K rental, unless you are working on the Fabric Extender or SAN labs, in which case they require the N2K/SAN Add-On.
- The UCS labs require the Base N5K/N7K rental plus the UCS Add-On.
- The ACE labs require the Base N5K/N7K rental plus the ACE Add-On.

Loading and Saving Configurations

When you load a saved configuration into the UCS, you must change the interfaces in use to match the Data Center rack you are using; our automation cannot make this modification for you. You will find the necessary configuration changes in the reminder email you receive before your rack session.

Before saving any configuration, make sure that all of your devices are at the command prompt or a login prompt.

Canceling a Rack Session

You can cancel a rack session in your Members account. Click **Rack Rentals** on the left side of the page, and then click the **Upcoming Rentals** tab at the top. The page should look like this:



You will see your booked session(s) on the **Upcoming Sessions** tab. To cancel a session, click the red **X** button on this tab or in the control panel.

XINE			Users Name	Logout
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Data Center Rack Re	ntal Quick Tour			
BASE 5K/7K	UCS/SAN ADD-ON +5	Current Balance		
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		∂ Active Sessions	ons	
		Start Date	Duration	
		2013-08-23 01:00 AM dc ucs	03:00:00	×
A confirmation messag	e will appear.			
XINE				
Dashboard / Rack Rentals / Schedul				
Data Center Rack Re	ntal Quick Tour			
BASE 5K/7K	UCS/SAN ADD-ON +5	Current Balance		
2013-08-22 03:00 PM		Are you sure? You are about to cancel this session : Fri, Aug 23, 2013 01:00 AM		
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Click Confirm. Another	message state	s the number of tokens that have been returned to your account. Click OK . Your session	ו will be ca	incelled

and your tokens refunded.

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Connecting to NX-OS Devices CLI

When your session begins, find your login information on the Rack Rentals page as shown above. Open your terminal software, such as PuTTY, SecureCRT, etc., and telnet to dc.ine.com. Log in with the provided username and password.

not connected - SecureCRT		
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n you are logged in, a menu	lisplays the devices that you have access to. The example shown below in	ndicates that this session is assigned
Base 5K/7K rental, with both t	ne UCS/SAN and N2K/SAN add-ons.	

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	10.		MD	s3						
	11.		MD	s4						
	12.		37	50G-2						
	13.		Cle	ear co	nsol	e li	ne to	UCS-	-FI1	
	14.		Cl	ear co	nsol	e li	ne to	UCS-	-FI2	
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Enter Selection:

Choose the device that you want to connect to, such as N7K1, and log in with the username **cisco** and password **cisco**. Note that the default ACE username/password is cisco/ciscocisco.

```
Enter Selection: 3
Trying N7K1 (192.168.0.71)... Open
User Access Verification
login: cisco
Password:
Cisco Nexus Operating System (NX-OS) Software
TAC support: http://www.cisco.com/tac
Copyright (c) 2002-2011, Cisco Systems, Inc. All rights reserved.
The copyrights to certain works contained in this software are
owned by other third parties and used and distributed under
license. Certain components of this software are licensed under
the GNU General Public License (GPL) version 2.0 or the GNU
Lesser General Public License (LGPL) Version 2.1. A copy of each
such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lqpl-2.1.php
N7K1#
```

Note:

Certain commands, such as erasing and reloading the device or editing the management IP address, are purposely restricted to allow the automation system to function properly.

N7K1# config t Enter configuration commands, one per line. End with CNTL/Z. N7K1(config)# interface mgmt0 % Permission denied for the role N7K1(config)#

Using the Rack Control Panel

The Rack Control Panel allows you to reset devices to their default configurations and access the remote desktops of the virtual machines. To access the control panel during your active rack session, click **Rack Rentals** on the Members site, and then click the **Control Panel** link on the right under your current session.



Connecting to Virtual Machines

Each rack session is assigned access to certain virtual machines, based on your rack number assignment and the add-ons that you chose. To access the virtual machines, first go to the Rack Control Panel on the members site.

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lick the Remote D assword, use your	esktop Access tab and you will see a rack username and password, e.g. user	list of available virtual rname dcrack1 passw	machines below. If this page ord abcdef .	e asks you for a username and
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Click the icon for the VM that you want to access, and the remote desktop will automatically open in another window. The remote desktop's resolution automatically resizes to your browser window size, so if you simply refresh this page the resolution will update to the browser size.



If for some reason you lock yourself out of a Virtual Machine, you can reset them from the control panel. All changes you made during your rack session will be reverted when you use this option.

Connecting to ACE Apache VMs and UCS Blade ESXi Instances

When it becomes necessary to connect to the Linux VMs running Apache when performing ACE-related tasks, follow the directions in the task to SSH to them.

The IP addresses for the ACE-related Apache VMs are:

- Apache1: 10.0.110.1
- Apache2: 10.0.110.2
- Apache3: 10.0.110.3

The username and password for all ACE-related Apache VMs are root and Cciedc01.

When it becomes necessary to connect to the UCS blade ESXi (or Windows-BareMetal) instances, follow the directions in the task to connect to them, using the VMWare Infrastructure Client provided (preinstalled on any of the Windows VM desktops). The IP addresses for the UCS blade ESXi and Windows Win2k8R2 bare metal instances are:

- ESXi1: 10.0.115.11
- ESXi2: 10.0.115.12
- ESXi-VMFEX: 10.0.115.21
- Win2k8-BM: 10.0.114.21

The username and password for all ESXi instances are **root** and **cciedc01**.

The username and password for the Win2k8R2 instance is Administrator and Cciedc01.

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