

**T&C DOC**

# Training and Certification

Linux Foundation training and certifications will help the professionals to build and develop their skills across various platforms such as Linux Kernel, Kubernetes, Hyperledger, Node js and many other courses and certifications. These course and certifications are designed and developed by industry experts to meet the requirement of current technical requirement across the industries.

## Training

- [Corporate Learners Guide](#)
- [LF Panorama Manager Guide](#)

## Certification

### General

- [Linux Foundation Certification Exams: Candidate Handbook](#)
- [Certification Exam Terms of Service](#)
- [Linux Foundation Global Certification & Confidentiality Agreement](#)
- [Resources Allowed - All Linux Foundation Certification Programs](#)
- [Quick Guide to Register-Schedule-Take Exam](#)

### The Linux Foundation (LFCS, LFCE, LFCA)

- [Frequently Asked Questions: LFCS and LFCE](#)
- [Important Instructions: LFCS and LFCE](#)
- [Candidate Handbook: LFCA](#)
- [Frequently Asked Questions: LFCA](#)
- [Important Instructions: LFCA](#)

### Cloud Native Computing Foundation (CNCF) Certification Program (CKA & CKAD & CKS)

- [Important Instructions: CKA and CKAD](#)
- [Important Instructions: CKS](#)
- [Frequently Asked Questions: CKA, CKAD and CKS](#)

## **Cloud Foundry Foundation (CFCD)**

- [Important Instructions](#)
- [Frequently Asked Questions](#)

## **Hyperledger (CHFA, CHSA, CHFD)**

- [Important Instructions: CHFA and CHSA](#)
- [Important Instructions: CHFD](#)
- [Frequently Asked Questions](#)

## **OpenJS Foundation (JSNAD, JSNSD)**

- [Important Instructions: JSNAD and JSNSD](#)
- [Frequently Asked Questions: JSNAD and JSNSD](#)

## **LF Networking (COP)**

- [Important Instructions: COP](#)
- [Frequently Asked Questions: COP](#)

# Training

The sections provides you with the user guides for:

- [Panorama Manager Guide](#)
- [Corporate Learners Guide](#)
- [LF Panorama Manager Guide](#)

# LF Panorama Manager

An existing learner who belongs to a company or organization can be promoted to LF Panorama Manager. You need to be enrolled as a learner in the Panorama account. Only a learner will be promoted to LF Panorama Manager.

LF Panorama Manager can perform the following tasks:

- Generate the reports
- View the content
- Send bulk emails
- Manage learners
- View Licenses
- Edit Licenses

# **Sublicense**

Sublicense allows you to create a hierarchy of licenses under the main license. Sublicense provides you with the option to create different licenses for different units or departments in the same organization. Each Sublicense can be assigned specific content, out of all content in the Main license. Learners or users can be associated with the required Sublicense, so that they only have access to the required content. This allows you to have a control over the content as well as provides you with a better option of checking the progress of the organization.

Some of the benefits of creating sublicenses are:

- Providing the right content to the right audience
- Reporting segmentation
- Better organization and structure
- Access expiration

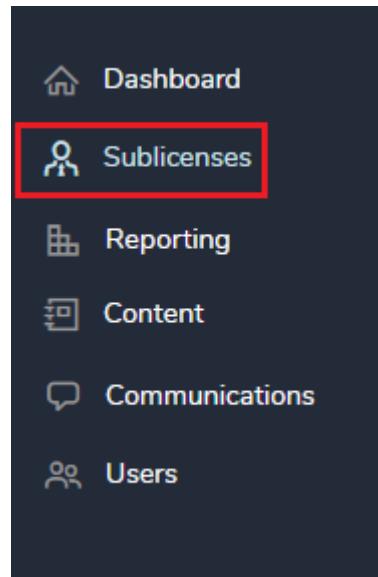
For more information on sublicense, Click [TI Knowledge Center](#).

## **How to Create Sublicense**

This section provides with the information on how you can create a sublicense under Main license.

To create a sublicense, perform the following steps:

1.From the dashboard, hover over the left side bar menu and click **Sublicense**.



Sublicense

2. The **Sublicenses** page appears. Click **Add Sublicense**.

A screenshot of the Sublicenses page. At the top, it shows "SEATS OCCUPIED" with a value of "15" and "SEATS ALLOCATED" with a value of "15". Below this is a tree structure: "Private Company A" is expanded to show a single node "Main". In the bottom right corner, there is a blue button labeled "Add Sublicense" which is highlighted with a red box.

3. The NEW SUBLICENSE page appears. You need to enter the following details as mentioned in the below table:

NEW SUBLICENSE

**Name**

Used for internal display

**SKU**

An optional SKU for identifying this Sublicense during SSO.

**Content**

Search for an item...

Access revocations will only apply to new learners and existing learners who have not yet started the content.

**Content Tags**

Search for an item...

**Parent**

None

**Seat Limit**

This limit is strictly enforced. Cannot exceed the Master License seat limit.

**Expire Access**

Expire access after a certain # of days

**Access Days**

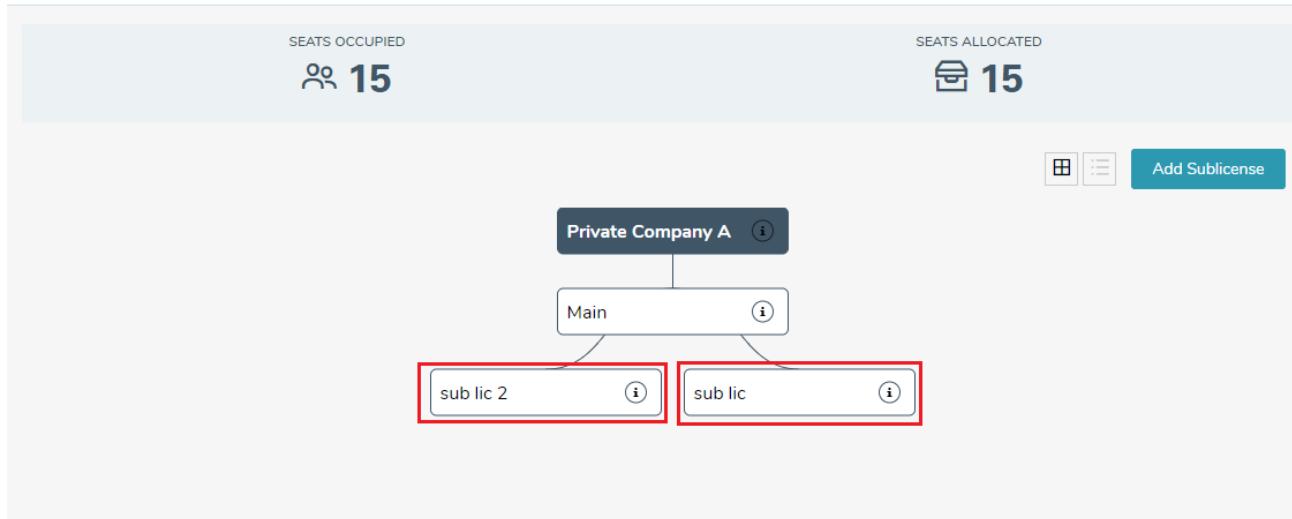
The number of days a learner who is part of the Sublicense should have access to the courses.

### New Sublicense

4.Click **Save** after providing all the details as explained in the above table.

The new Sublicense is created.

## Sublicenses



Sublicenses Added

- (i) Learners can be in multiple sublicenses at a time.

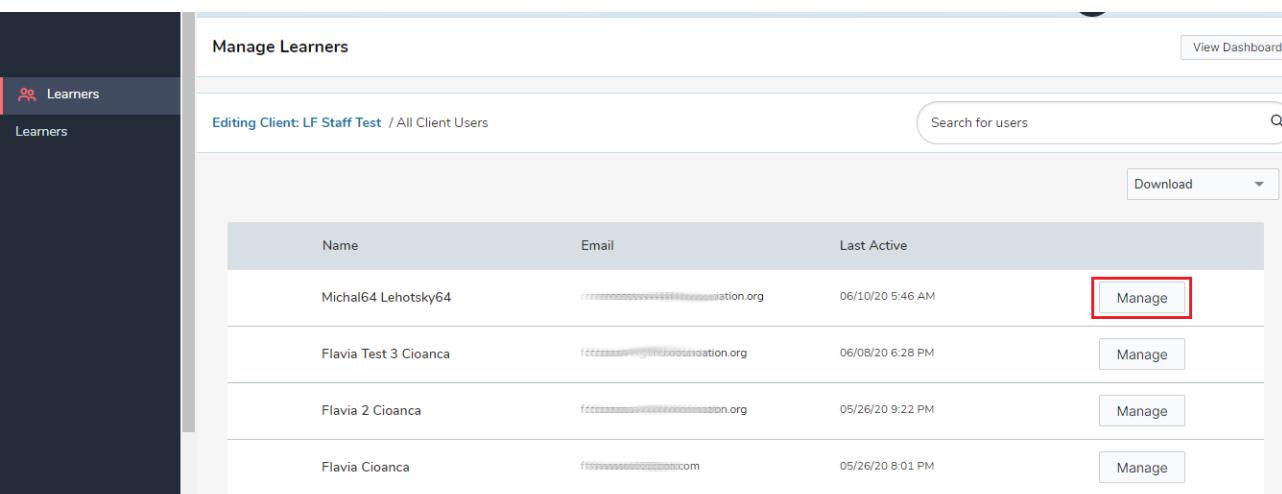
For more information on how to create a sublicense, click [TI Knowledge Center](#).

# Moving Learner from One Sublicense to Another Sublicense

You can move learner belonging to one sublicense to another sublicense.

To move a learner from one sublicense to another, perform the following steps:

1. From the dashboard, hover over the left side bar menu and click **Users** and then click **Learners**. The Manage Learners page appears, click **Manage** against the learner who needs to be transferred to another sublicense.



The screenshot shows the 'Manage Learners' page. On the left, there's a sidebar with a 'Learners' option selected. The main area has a header 'Manage Learners' and a sub-header 'Editing Client: LF Staff Test / All Client Users'. It includes a search bar and a 'Download' button. Below is a table with columns 'Name', 'Email', and 'Last Active'. Four rows of learner data are listed, each with a 'Manage' button. The first 'Manage' button is highlighted with a red box.

Name	Email	Last Active	Manage
Michal64 Lehotsky64	████████████████████@education.org	06/10/20 5:46 AM	<span style="border: 2px solid red; padding: 2px;">Manage</span>
Flavia Test 3 Cioanca	████████████████████@education.org	06/08/20 6:28 PM	Manage
Flavia 2 Cioanca	████████████████████@education.org	05/26/20 9:22 PM	Manage
Flavia Cioanca	████████████████████@com	05/26/20 8:01 PM	Manage

[Manage](#)

2. The User detail page appears. Click **Access** and from the **Select a Sublicense** drop-down list, select the required sublicense for which you want to transfer the learner and click **Save**. The learner will be moved to that sublicense.

Details
Transcript
Access
Onboarding Survey
Transactions

**Access:**

Has access to the following content:

Click the trash icon next to content to revoke access.

 LFT105-test

Panorama &  
Sublicenses

LF Staff Test

Select a Sublicense ▾

**Sublicenses:**

Created 2 Active

X

 Save

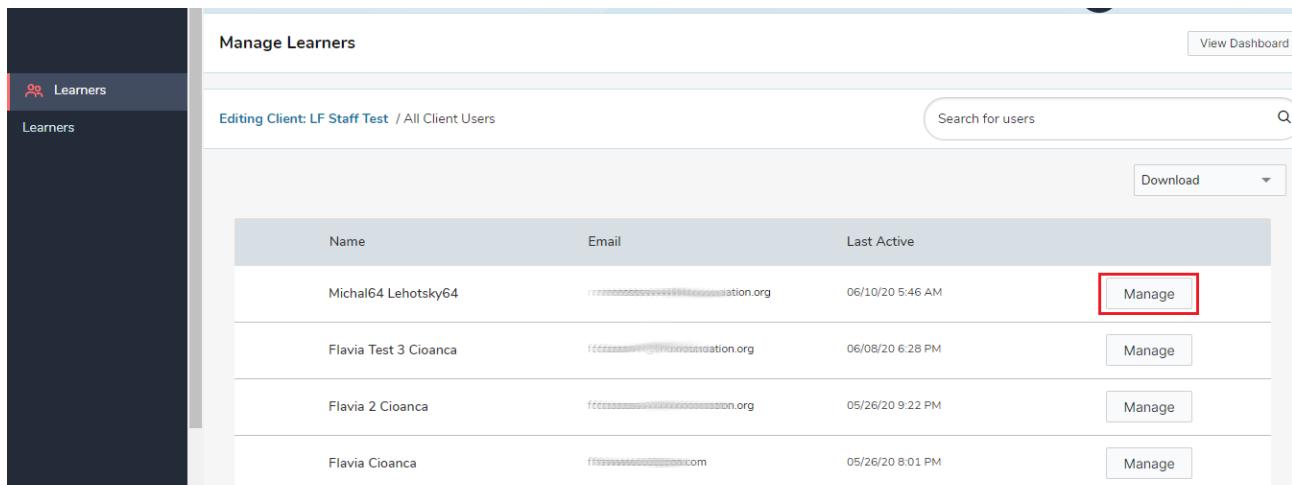
Transfer

# Removing Access to Sublicense

You can remove the learner assigned to the sublicense.

To remove the learner assigned to the sublicense, perform the following steps:

1. From the dashboard, hover over the left side bar menu and click **Users** and then click **Learners**. The Manage Learners page appears, click **Manage** against the learner who needs to be transferred to another sublicense.



The screenshot shows the 'Manage Learners' page. On the left, there's a sidebar with a 'Learners' section. The main area has a header 'Manage Learners' and a sub-header 'Editing Client: LF Staff Test / All Client Users'. It includes a search bar and a 'Download' button. Below is a table with columns: Name, Email, and Last Active. There are four rows of data. The first row, for 'Michal64 Lehotsky64', has a 'Manage' button highlighted with a red box. The other three rows have standard 'Manage' buttons. At the bottom center is a large 'Manage' button.

Name	Email	Last Active	
Michal64 Lehotsky64	████████████████████@████████.org	06/10/20 5:46 AM	<span style="border: 2px solid red; padding: 2px;">Manage</span>
Flavia Test 3 Cioanca	████████████████████@████████.org	06/08/20 6:28 PM	Manage
Flavia 2 Cioanca	████████████████████@████████.org	05/26/20 9:22 PM	Manage
Flavia Cioanca	████████████████████@████████.com	05/26/20 8:01 PM	Manage

Manage

2. The User detail page appears. Click the **X** icon against the sublicense. A pop message appears informing that if you're sure to remove the access to the sublicense, click **OK**. The learner will be removed from the sublicense.

Details

Transcript

**Access**

Onboarding Survey

Transactions

**Access:**

Has access to the following content:

Click the trash icon next to content to revoke access.

LFT105-test

Panorama & Sublicenses

LF Staff Test

Select a Sublicense ▾

**Sublicenses:**

Created 2 Active

**Save**

Remove Sublicense

# Generating Reports

You can generate reports related to seats, as well as a breakdown of learners and their progression within a course. See how much time learners are spending in the content, and a recap of learner status.

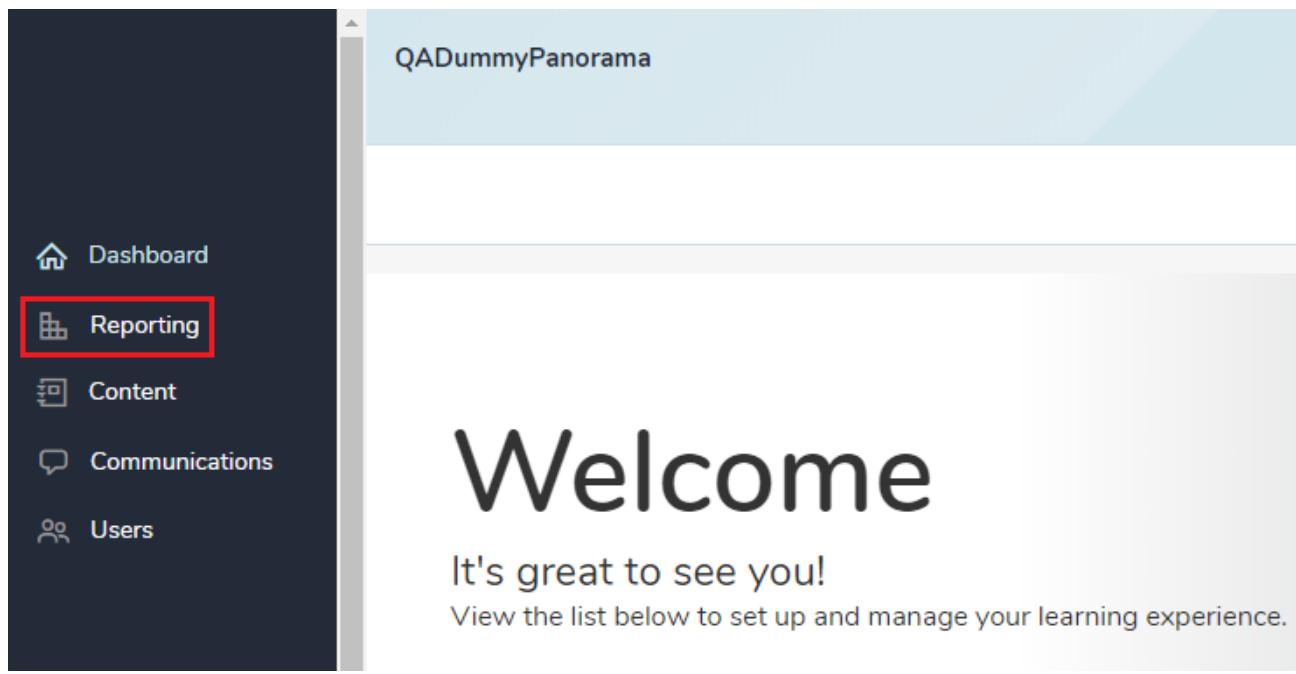
Panorama accounts has three inbuilt reports available for you to use. The reports are:

- Client Engagement
- Content Usage
- Learner Usage

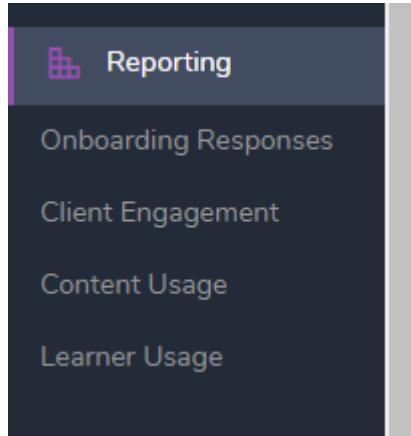
## How to Generate Reports

To generate the reports, perform the following steps:

1. From the dashboard, hover over the left side bar menu and click **Reporting**.



2.The list of available default reports are listed in the left side bar menu. Click the required report that you want to generate.



Report List

---

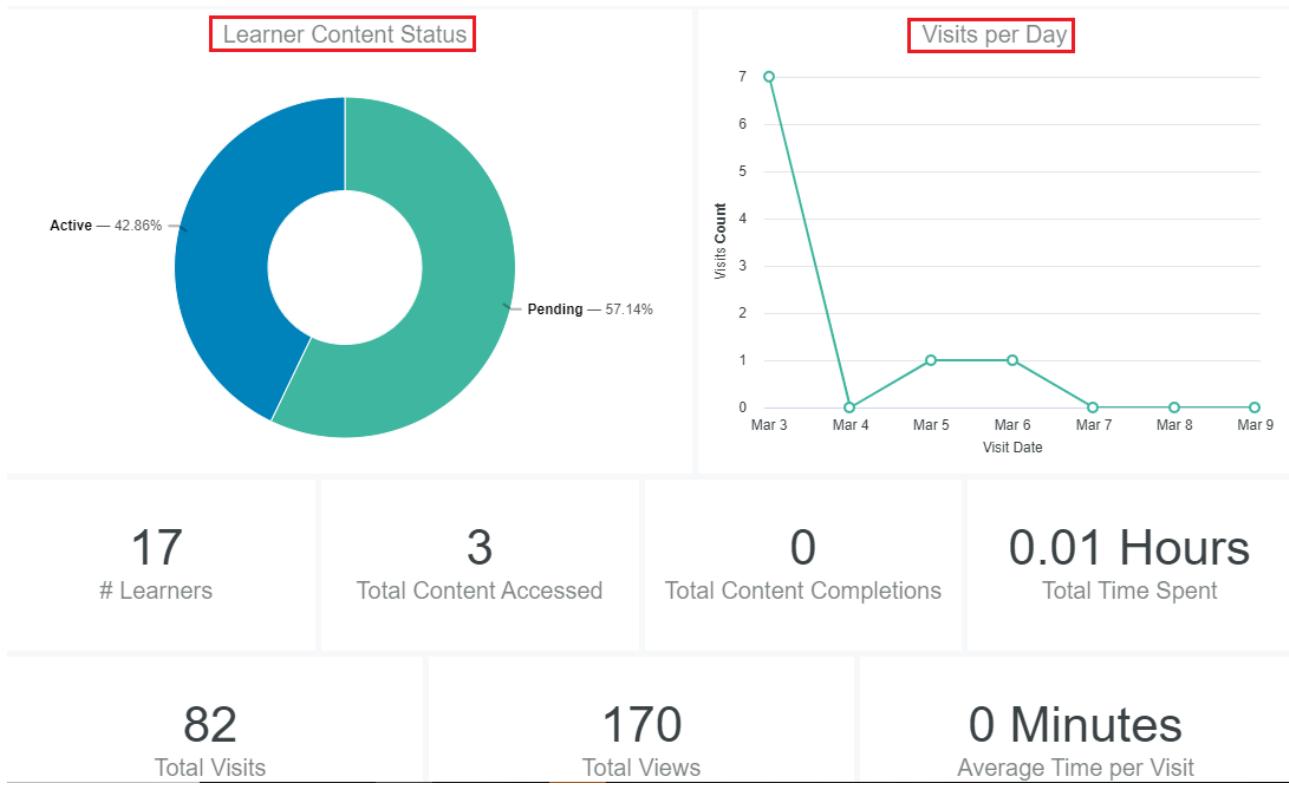
## How to Generate Client Engagement Report

To generate Client Engagement report, perform the following steps:

1.Click **Client Engagement**. The Client Utilization page appears. In the same report, you will get information on the following topics:

- Learner Content Status and Visits Per Day
- Most Active Content, Top Learners and Least Active Content
- Learner Usage Overview
- Learner Usage Details

### Leaner Content Status and Visits Per Day Report



### Learner Content Status

## Most Active Content, Top Learners and Least Active Content

**Most Active Content**

**Top Learners**

**Least Active Content**

Title	Total Views ▼
Course For Company A Only	2

Name	Last Active Date Time	Total Content Views ▼
Efren Panorama User A	2019-11-06 17:15:58	2

### Active Content

## Learner Usage Overview

## Learner Usage Overview

## Learner Usage Details

Learner Usage Details							
	Email	Name	Last Active Date	Content Type	Content Title	Status	Views
1	mlehott@xxxxxxxxxxfoundation.org	Michal21 test21	2020-03-06	e-Learning	test2	started	0
2	mlehott@xxxxxxxxxxfoundation.org	Michal21 test21	2020-03-06	Certification	CKA Exam on Dev FOR QA	started	0
3	mlehott@xxxxxxxxxxfoundation.org	Michal24 test24	2020-03-03	Certification	CKA Exam on Dev FOR QA	not-started	0
4	mlehott@xxxxxxxxxxfoundation.org	Michal27 test27	2020-02-28	e-Learning	test2	not-started	0
5	mlehott@xxxxxxxxxxfoundation.org	Idif4 test4	2020-02-19	Course	SCORM Connect Test (LFS258)	not-started	0
6	mlehott@xxxxxxxxxxfoundation.org	Idif4 test4	2020-02-19	Certification	CKA On Dev	not-started	0
7	efren_paaaaaaaaaaaaaaaaaaaaaa@oakt.cc	Efren Panorama User A	2019-11-06	Course	Course For Company A Only	started	2

## Learner Usage Details

# How to Generate Content Usage Report

To generate Content Usage report, perform the following steps:

1. Click **Content Usage**. The Client Utilization page appears.
  2. Select the required license from the **Filter by Sublicense**.
  3. From the **Filter by date range**, select the start date and end date.

Filter by Sublicense:

Select a Sublicense

Filter by date range

Start Date - End Date

## Content Usage

In the same report, you will get information on the following topics:

- Contents View by Date
- Overview
- Content Usage Totals by Month
- Contents Usage Details

### Contents View by Date

Content Views by Date

No Results

0

Content Views

2

Content Completions

Contents View

### Overview

Overview

Content Type	License	Total Views ▾	Total Completed
1 SCORM	∅	0	2

## Overview

### Content Usage Totals by Month

Content Usage Totals by Month				
Date Month ▾	License	Total Views	Total Completed	
1 2019-01	Ø	0	0	2

Contents Usage Total

### Contents Usage Details

Content Usage Details								
Title	Content Type	Name	Source	Author	License	Total Views ▾	Total Completed	
1 LFD271testSCORM2004noTimestamp	SCORM	LF South Asia	Ø	Ø	Ø	0	1	
2 LFD271testSCORM1.2	SCORM	LF South Asia	Ø	Ø	Ø	0	1	

Contents Usage Details

## How to Generate Learner Usage Report

To generate Learner Usage report, perform the following steps:

1. Click **Learner Usage**. The Panorama Learner Usage page appears.
2. Select the required license from the **Filter by Sublicense**.
3. From the **Filter by date range**, select the start date and end date.

Filter by Sublicense:

Select a Sublicense

Filter by date range

Start Date

-

End Date

## Panorama Usage

In the same report, you will get information on the following topics:

- Learners Visits by Date
- Learners Usage Totals by Month
- Learner Usage - Visits
- Learner Usage - Overview
- Learner Usage - Content Details

### Learner Visits by Date



### Learners Usage Totals by Month

### Learner Usage Totals by Month

Date Month ▼	Total Views	Total Completed
1 2020-02	0	0
2 2020-01	0	0
3 2019-12	0	0
Total	0	0

### Learner Usage Totals

### Learner Usage - Visits

### Learner Usage - Visits

Last Name	First Name	Email	Client	Last Active Date	Visits ▼
No Results					

### Learner Usage Visits

### Learner Usage - Overview

Learner Usage - Overview						
Last Name	First Name	Email	Client	Last Active Date	Total Views	Total Completed
No Results						

## Learner Usage Overview

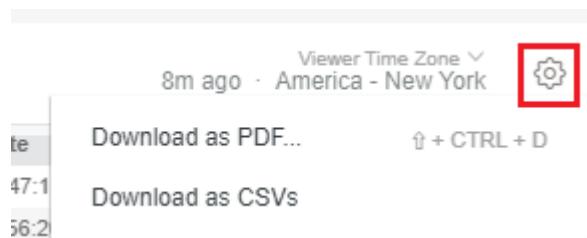
### Learner Usage - Content Details

Learner Usage - Content Details								
Last Name	First Name	Email	Client	Last Active Date	Content Type	Title	Status	Content Views
No Results								

## Learner Usage Content

## Download Reports in Different Formats

You can download all the above reports in PDF or CSV format. To download the complete report, click  . You can download the report as PDF or CSV.



Download

You can also download the individual report. Go to the required report and click  icon and then click **Download** and you can download the individual report in TXT, CSV, JSON, HTML and Markdown.

Learner Usage - Overview							
	Last Name	First Name	Email	Client	Last Active Date	Total Views	Download Data...
1	Learner	Flavia	flaviaaaaa@gmail.com	LF South Asia	2019-03-08	0	

Download



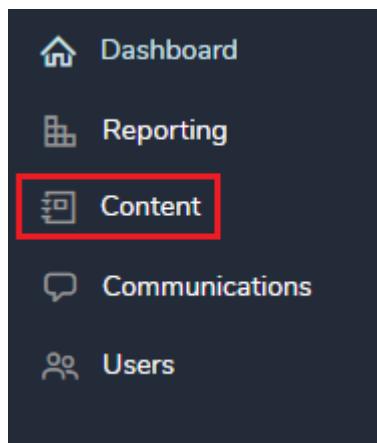
# Viewing Content

LF Panorama Manager can view the contents associated with the Panorama account.

You cannot assign content to any learner.

To view the content, perform the following steps:

1. From the dashboard, hover over the left side bar menu and click **Content**.



Content

2. The Content page appears with list of all the content. Go to the required content, click **View**.

The screenshot shows a table-based content management interface. At the top left is a 'Content' button. To its right is a search bar with a placeholder 'Search by Name' and a magnifying glass icon. The main area displays a table with four rows of content items. Each row includes columns for Name, Created, Updated, Tags, and Actions. The 'Actions' column for the first item contains a dropdown menu with 'View' highlighted by a red box. The table data is as follows:

Name	Created	Updated	Tags	Actions
Linux Foundation Certified System Administrator (LFCS)	01/31/2020	03/12/2020	cert-lfcs	<span>Actions ▾</span> <span style="border: 2px solid red; padding: 2px;">View</span>
QA Certification (QACERT)	01/30/2020	02/26/2020	cert-qacert	<span>Actions ▾</span>
QA e-learning course	02/07/2020	02/12/2020	elearning	<span>Actions ▾</span>
Kubernetes Fundamentals (LFS258)	09/05/2019	01/21/2020	elearning	<span>Actions ▾</span>

Manage Content

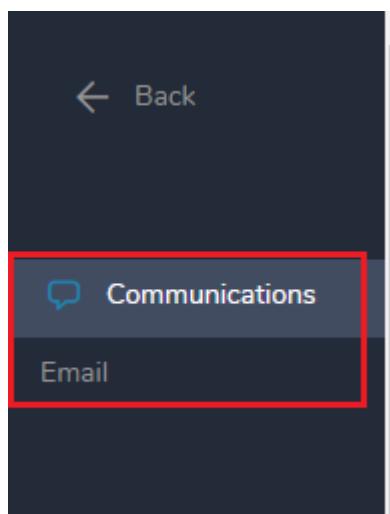
The selected content appears.

# Emails

LF Panorama Manager can send bulk emails to their learners in one go. They can send the required communication in an email to the entire learners associated with their main license or sublicense.

To send emails, perform the following steps:

1. From the dashboard, hover over the left side bar menu and click **Communications** and then click **Email**.



Email

2. The Email Learners page appears. Select the license from **Select Sublicense**. All learners associated with the selected sublicense will receive the email. Enter the **Subject**, content in the **Body** and click **Send Email**.

## Email Learners

### Email

#### EMAIL

##### Send Email to Class

This will send an email to all learners who are part of the Sublicenses selected.

Class Size

1

Main x

#### Subject

Hello

#### Body



Hi

#### Add Button

e.g. Click Here

Optional

#### Button URL

e.g. https://www...

Optional

[Send Test Email](#)

[Send Email to 1 Learner](#)

Email

# Manage Learners and Enrollments

LF Panorama Manager can view and manage learners associated with their Panorama account. You can perform the following tasks related to Learners:

- View the details of the learners
- Print and export the transcript
- View access to the content
- Create an onboarding survey

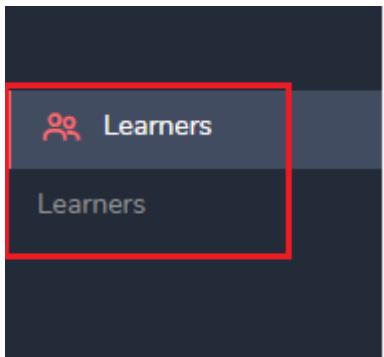
## View Details of the Learners

You can view details such as first name, last name, email, address and reference details.



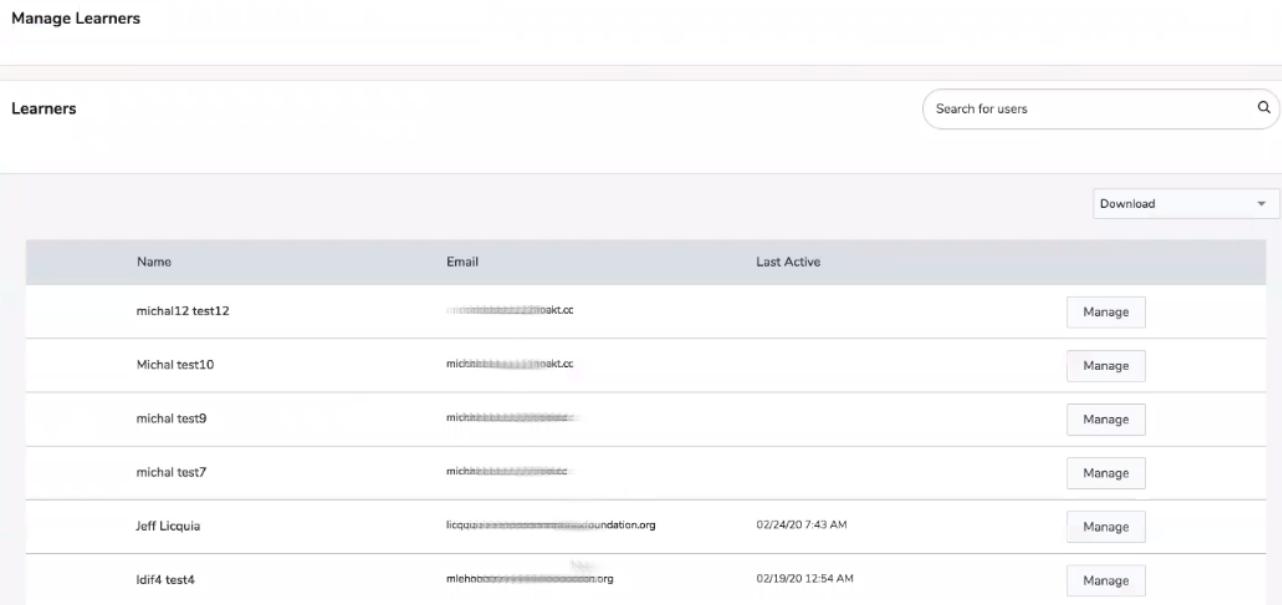
**You should NEVER use or change the field called "Learner Reference 1" as the LF system uses that for individuals to confirm the name on their ID for Certification exams.**

1. From the dashboard, hover over the left side bar menu and click **Users** and then click **Learners**.



Learners

2.The Learners page appears with list of all the learners associated with the Panorama account.



Name	Email	Last Active	
michal12 test12	michal12@roakt.cc		<button>Manage</button>
Michal test10	michaltest10@roakt.cc		<button>Manage</button>
michal test9	michaltest9@roakt.cc		<button>Manage</button>
michal test7	michaltest7@roakt.cc		<button>Manage</button>
Jeff Licquia	licquia@learningequality.org	02/24/20 7:43 AM	<button>Manage</button>
ldif4 test4	mleho@learningequality.org	02/19/20 12:54 AM	<button>Manage</button>

List of Learners

3.Go to the required learner and click **Manage**. The details related to the learner appear. You can see the first name, last name, email, address and reference details. **As noted above, do not use or change the 'Learner Reference 1' field as this is used by the LF platform.**



You can edit the address of the learner. Update the address and click **Save**.

**Details**

Credit Card	Invited by	Pallavi Chennodu <a href="#">Resend Invite</a>
Certificates	First Name	Himani
Transcript	Last Name	G
Access	Email	himanilinux.org
Assessments	Avatar	 Drag image or click
Reporting & Engagement	Learner Reference 1	<small>For notes and storage of external information. Max 200 characters</small>
Onboarding Survey	Learner Reference 2	<small>For notes and storage of external information. Max 200 characters</small>
Awards	Learner Reference 3	<small>For notes and storage of external information. Max 200 characters</small>
Subscriptions	Learner Reference 4	<small>For notes and storage of external information. Max 200 characters</small>
Transactions	Learner Reference 5	<small>For notes and storage of external information. Max 200 characters</small>
Role	<b>Address Details</b>	
	Shipping Name	
	Address Line 1	
	Address Line 2	
	City	
	Phone Number	Phone Number
	State	State
	Postal Code	
	Country	Country

[Disable This User](#) [Impersonate This User](#) [Save](#)

## Update User

**i** You can also disable a learner temporarily, click the **Disable This User** button.

**i** Changing **Name** and **Email** in learner's profile will have no effect because they are retrieved from Auth0 and any changes in TI will be always overwritten.

## Print and Export Transcription

From Transcript, You can Print Transcript and Export Transcript of the concerned learner. Navigate to **Learners** and click **Transcript**.

The screenshot shows the Transcript page for a learner named "Asha qatest12". The page includes a sidebar with "Details", "Transcript" (which is selected), "Access", "Onboarding Survey", and "Transactions". The main content area displays "QADUMMYPANORAMA TRANSCRIPT" with a table showing the learner's name, course title, completion date, and verified name. At the top right, there is a user profile for "Asha qatest10" and two buttons: "Print Transcript" and "Export Transcript CSV", both of which are highlighted with a red border.

Name	Course Title	Completion Date	Verified Name
Asha qatest12	QA e-learning course		

## Transcript

## Access to the Content

You can check the contents that the learner is enrolled in. Navigate to **Learners** and click **Access**.

The screenshot shows the Access page for the learner "asha.qatest+12@gmail.com". The sidebar has "Users" and "Learners" (which is selected). The main content area shows "Editing: asha.qatest+12@gmail.com" and a sidebar with "Details", "Transcript", "Access" (selected), "Onboarding Survey", and "Transactions". The "Access" section displays "Has access to the following content:" with a list of items: "Linux Foundation Certified System Administrator (LFCS)" and "QA e-learning course", both of which are highlighted with a red border. Below this, there is a "Bulk Purchases:" section stating "This learner has not made any bulk purchases."

## Content Access

-  Click  icon to remove an enrolled learner from accessing the content.

Be careful when you delete the course, some of the course may be purchased by the learner. Delete the course only when it is absolute necessary.

---

## Onboarding Survey

If you are interested in collecting additional data post-registration, you can create a custom onboarding survey.

For more information on Onboarding survey, [click here](#)

---

# Corporate Learner

Panorama is platform functionality designed to streamline, create and manage multiple online courses from a single interface. It allows organizations to create a single interface and assign required courses for different group. Groups are comprised of Learners, who are employees of the organization or company that have access to the Panorama account.

As an employee of an organization that has licensed a Panorama account, you will have access to the Panorama dashboard where you can view and read the content associated with your account.

# Creating an LF Account

You need to have your LF Account in order to login to the Panorama account.

To create an LF Account, perform the following steps:

1. Access [LF Account Login Page](#) using the internet browser.

2. Click **Create Account**.

 You can also login using Google and Github account.

3. The Create a Linux Foundation Account page appears. Enter your details such as **Email Address, Username, First Name, Last Name**, and **Password**. Click **Create Account**.

 Make sure to provide a unique LF Account.

## Create a Linux Foundation Account

Email address

Username

test.member

First name

Last name

Password

.....

By creating an account, you agree to the [CommunityBridge Platform Use Agreement](#) and all terms incorporated therein, including the [Service-Specific Use Terms](#), the [Acceptable Use Policy](#) and the [Privacy Policy](#).

Linux Foundation ID (LFID) is a free account that identifies you and securely provides access to web sites of The Linux Foundation, our projects, and our service providers.

[Create Account](#)

[Create Account](#)

## How to Change the Password

You can change your password by clicking [Forgot Password](#).

To change the password, perform the following steps:

1. From the login page, click [Forgot Password](#).

## Log In to Training Portal

Email or Username

Password

[Forgot Password?](#)

[Sign In](#)

[Forget Password](#)

2.The Forget Your Password page appears. Enter your user name or the email ID associated with your account and click **Reset Password**.

## Forgot your password?

Enter your username or email address and we will send you a link to reset your password.

Email or Username

[Reset Password](#)

[Reset Password](#)

3.A link will be sent to your email ID. You can change your password using the link provided in the email.



# Associating with Panorama Account

You need to have a LF Account to get associated with your corporate Panorama account. You can only associate with your organization's Panorama account. You cannot get associated with more than one Panorama account.

Your Corporate Manager will share the below URL with all their learners. You need to use this URL to get associated with the Panorama account.

```
https://linux.thoughtindustries.com/redeem
```

To associate with your organization's Panorama account, perform the following steps:

1. Your manager will share the Redemption code or Registration code with you.
2. Login to <https://linux.thoughtindustries.com/>.
3. The Linux Foundation Learner Portal page appears. Enter the Registration code or Redemption code that is provided by your Panorama Manager. Click **Validate** and select **I agree to the Terms & Conditions** if you agree.



If you are not logged into the learner portal, you will be directed to login page.

You need to enter your LF Account credentials. If you do not have LF Account, you need to create one. You can check [here](#) for more details.

[Learning](#) [About](#) [Contact](#)

Fill in a code below, click validate, and then redeem your code.

Validate

---

[+ Add Another Code](#)  [I agree to the Terms & Conditions](#) Redeem

## Redeem Code

4. After successful validation of the code, you will be directed to Learner dashboard.

The Linux Foundation AV ▾

**PURCHASE HISTORY**

In Progress (6)	Certifications (1)	
Linux Kernel Internals and Development (LFD420)	Instructor-Led Onsite	<a href="#" style="background-color: #004a89; color: white; border: none; padding: 2px 10px;">Start Instructor-Led Onsite</a>
Course Example	e-Learning	<a href="#" style="background-color: #004a89; color: white; border: none; padding: 2px 10px;">Start e-Learning</a>
Cloud Foundry for Developers (LFD232)	e-Learning	<a href="#" style="background-color: #004a89; color: white; border: none; padding: 2px 10px;">Start e-Learning</a>

## Dashboard

# Account Information

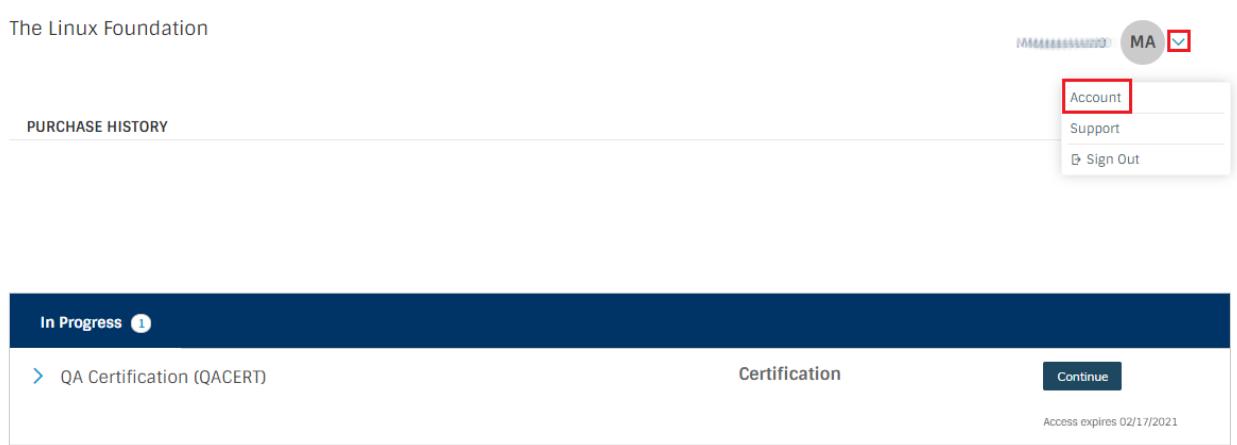
You can check the information related to your account such as account details, credit card details and purchase history.

## Credit Card Details

You can view your credit card details associated with your Panorama account. You can also update the credit card details.

To view your credit card details, perform the following steps:

1. From the dashboard, click  icon available on the top right of the dashboard page and select **Account**.



The screenshot shows the Panorama dashboard. At the top, there's a header with "The Linux Foundation" and a user profile icon labeled "MA". Below the header, there are two main navigation tabs: "PURCHASE HISTORY" and "Account". The "Account" tab is highlighted with a red box. To the right of the tabs are "Support" and "Sign Out" buttons. The main content area has a dark blue header bar with "In Progress 1" and a link to "QA Certification (QACERT)". The main body contains a "Certification" section with a "Continue" button and a note "Access expires 02/17/2021". At the bottom of the content area, the word "Account" is displayed in a light blue font.

2. The Account & Info page appears. Click **Credit Card**. The credit card details are provided. To update the credit card details, enter the credit card number along with the expiry code and click **Save**.

## Account & Info

The screenshot shows the 'Account & Info' section. On the left, there's a sidebar with 'Account Info' and two options: 'Credit Card' (highlighted with a red box) and 'Purchases'. The main area is titled 'CREDIT CARD' and contains a sub-section 'Change Credit Card'. It displays a message: 'You currently have a visa card ending in \*\*\*4242 on file.' Below this is a form with fields for 'Card number' (with a placeholder icon), 'MM / YY CVC', and a green 'Save' button (also highlighted with a red box).

Credit Card

## Purchase History

You can view your purchase history of the content.

To view your purchase history, perform the following steps:

1. From the dashboard, click icon available on the top right of the dashboard page and select **Account**.

The screenshot shows the 'Account' page. At the top, it says 'The Linux Foundation' and has a user profile icon with 'MA' and a checked checkbox. To the right is a menu with 'Account' (highlighted with a red box), 'Support', and 'Sign Out'. Below this is a dark header bar with 'In Progress 1'. The main content area shows a list item: 'QA Certification (QACERT)' with a blue arrow icon. To the right are 'Certification' and a 'Continue' button. At the bottom right, it says 'Access expires 02/17/2021'.

Account

2. Click **Purchase**. The Purchase history list appears. It provides information on item purchased, transaction type, charge and transaction date. Click **Download** to download the purchase history.

## Account & Info

Account Info																												
Credit Card																												
Purchases																												
PURCHASES																												
<div style="text-align: right;"><span style="border: 1px solid #ccc; padding: 2px;">Filter transactions by</span> <span style="border: 2px solid red; padding: 2px;">Download</span></div> <table><thead><tr><th>Item</th><th>Transaction Type</th><th>Charge</th><th>Transaction Date</th></tr></thead><tbody><tr><td>&gt; Selenium with TestNG &amp; J...</td><td>One Time Transaction</td><td>\$18.00</td><td>2/27/2020</td></tr><tr><td>&gt; QA Certification (QACERT)</td><td>One Time Transaction</td><td>\$5.00</td><td>2/17/2020</td></tr><tr><td>&gt; CKA Exam on Dev FOR QA</td><td>One Time Transaction</td><td>\$77.00</td><td>2/10/2020</td></tr><tr><td>&gt; Course with Cert</td><td>One Time Transaction</td><td>\$10.00</td><td>2/10/2020</td></tr><tr><td>&gt; Webinar - Now</td><td>One Time Transaction</td><td>\$1.00</td><td>1/31/2020</td></tr><tr><td>&gt; Webinar - Intro</td><td>One Time Transaction</td><td>\$11.00</td><td>1/31/2020</td></tr></tbody></table>	Item	Transaction Type	Charge	Transaction Date	> Selenium with TestNG & J...	One Time Transaction	\$18.00	2/27/2020	> QA Certification (QACERT)	One Time Transaction	\$5.00	2/17/2020	> CKA Exam on Dev FOR QA	One Time Transaction	\$77.00	2/10/2020	> Course with Cert	One Time Transaction	\$10.00	2/10/2020	> Webinar - Now	One Time Transaction	\$1.00	1/31/2020	> Webinar - Intro	One Time Transaction	\$11.00	1/31/2020
Item	Transaction Type	Charge	Transaction Date																									
> Selenium with TestNG & J...	One Time Transaction	\$18.00	2/27/2020																									
> QA Certification (QACERT)	One Time Transaction	\$5.00	2/17/2020																									
> CKA Exam on Dev FOR QA	One Time Transaction	\$77.00	2/10/2020																									
> Course with Cert	One Time Transaction	\$10.00	2/10/2020																									
> Webinar - Now	One Time Transaction	\$1.00	1/31/2020																									
> Webinar - Intro	One Time Transaction	\$11.00	1/31/2020																									

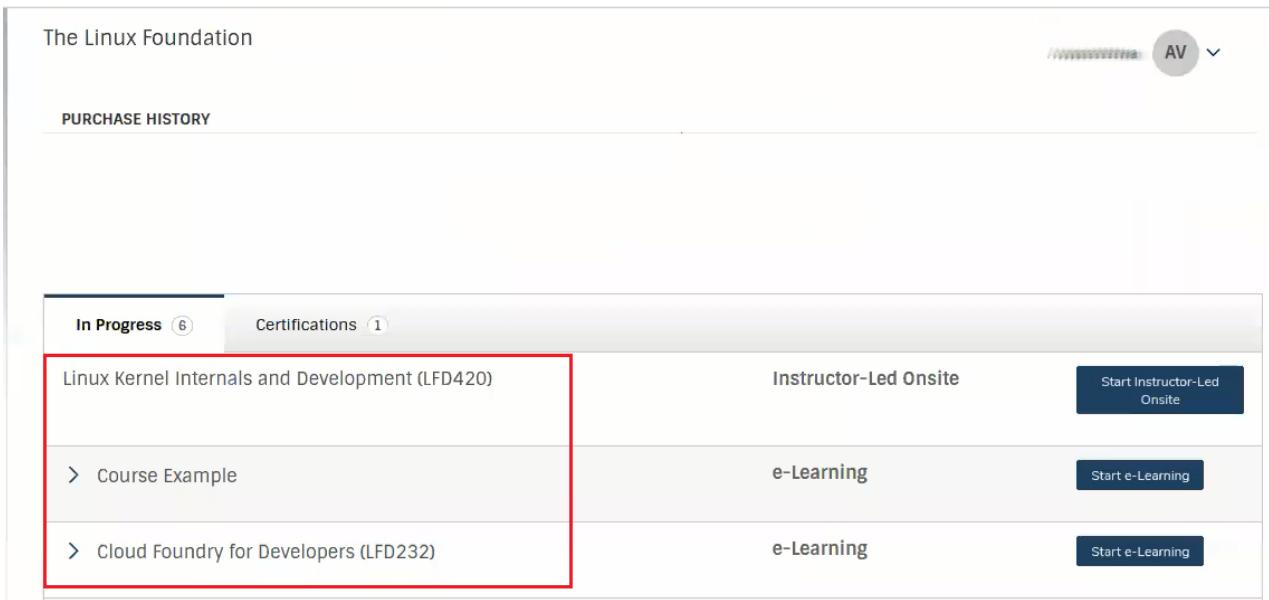
### Purchase History



As a Corporate learner, you will have a limited number of free exams. You can purchase the required exams through the cart.

# Viewing the Contents

You can view the content associated with your Panorama account. You can see all the content associated with your Panorama account in the dashboard.

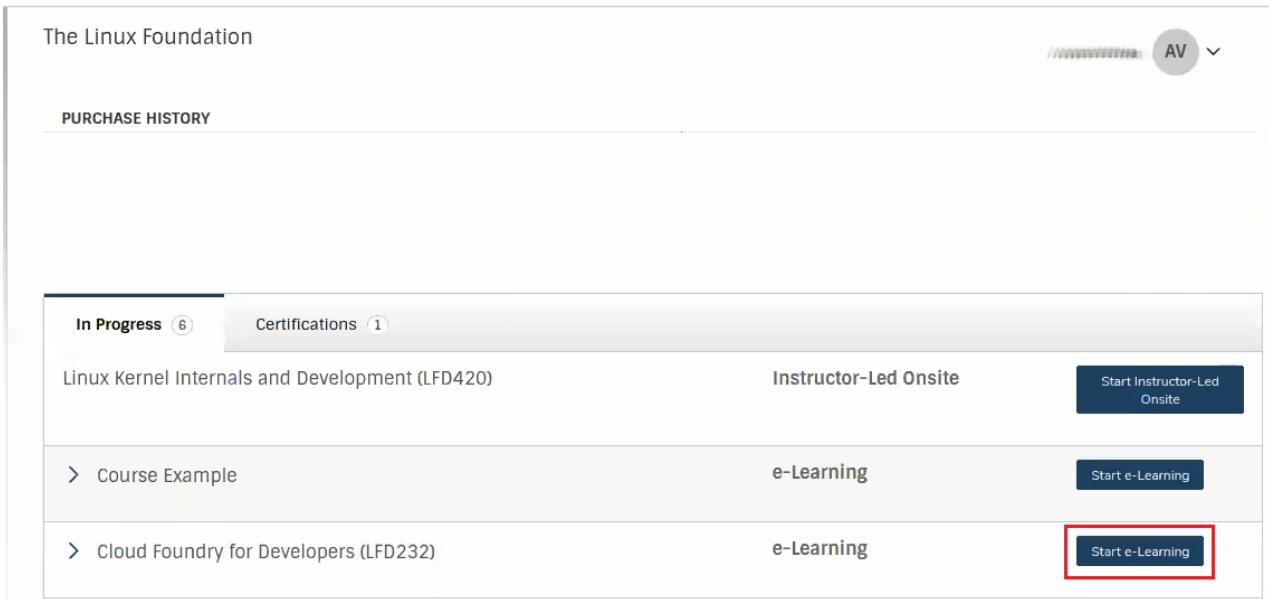


The screenshot shows the Panorama dashboard with the 'Purchase History' tab selected. At the top, there are two tabs: 'In Progress' (6) and 'Certifications' (1). The 'In Progress' tab is highlighted with a red border around its content area. Inside this area, there are two items listed:

Content Item	Type	Action
Linux Kernel Internals and Development (LFD420)	Instructor-Led Onsite	Start Instructor-Led Onsite
> Course Example	e-Learning	Start e-Learning
> Cloud Foundry for Developers (LFD232)	e-Learning	Start e-Learning

Content List

To access the content associated with your Panorama account, you need to click the **Start** button in each line item. For example, click **Start e-learning**.

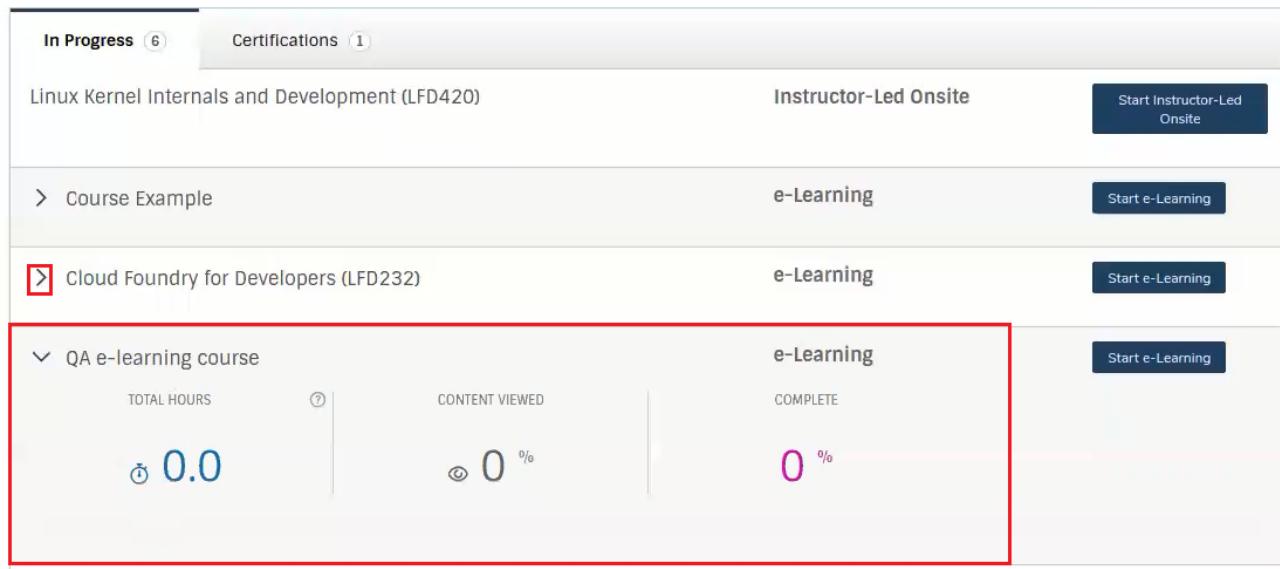


The screenshot shows the same Panorama dashboard as above, but with a red box highlighting the 'Start e-Learning' button for the second item in the 'In Progress' list. This indicates that the user has clicked on that specific link.

Start e-learning

You can read through the content as per your convenience before the expiration date. You do not need to finish the content in one go. The content will be saved where you have stopped. The next time you want to read the content, you can start where you left off. You can check the progress of the content by clicking  icon next to the name of the content.

This provides you with the information on how much hours you have spent on the content, percentage of content viewed and percentage of content completed.



The screenshot shows a user interface for managing learning content. At the top, there are two tabs: "In Progress (6)" and "Certifications (1)". Below these are three course entries:

- Linux Kernel Internals and Development (LFD420)**: Instructor-Led Onsite. Includes a "Start Instructor-Led Onsite" button.
- > Course Example**: e-Learning. Includes a "Start e-Learning" button.
- Cloud Foundry for Developers (LFD232)**: e-Learning. Includes a "Start e-Learning" button.

Below these entries is a section for the "QA e-learning course". This section is highlighted with a red border. It contains the following information:

TOTAL HOURS	CONTENT VIEWED	COMPLETE
0.0	0 %	0 %

Under the "TOTAL HOURS" column, there is a question mark icon. Under the "CONTENT VIEWED" and "COMPLETE" columns, there are circular progress indicators.

Progress

# Certification

# Linux Foundation Global Certification and Confidentiality Agreement

This Certification Agreement (the "Agreement") is entered into between you and the Linux Foundation as of the date of your exam registration (the "Effective Date").

YOU AND LF AGREE TO THE FOLLOWING:

---

## 1. Definitions

**"LF"** means the Linux Foundation, its project communities, and entities it has engaged with to provide Certification Programs.

**"Certification(s)"** means any professional certification credential offered by LF .

**"Program(s)"** means the Certification programs offered by LF under this Agreement.

**"Exam Proctoring Partner"** means the entity engaged by LF to administer the applicable examination.

**"Mark"** means one of the trademarks and logos related to LF Certification such as:

- Linux Foundation Certified System Administrator (LFCS )
- Linux Foundation Certified Engineer (LFCE )
- Linux Foundation Certified IT Associate (LFCA)
- Cloud Foundry Certified Developer (CFCD)
- Certified Kubernetes Administrator (CKA)
- Certified Kubernetes Application Developer (CKAD)
- Certified Kubernetes Security Specialist (CKS)
- Certified Hyperledger Sawtooth Administrator (CHSA)
- Certified Hyperledger Fabric Administrator (CHFA)
- Certified Hyperledger Fabric Developer (CHFD)
- Certified ONAP Professional (COP)
- FinOps Certified Practitioner (FOCP)

- OpenJS Node.js Application Developer (JSNAD)
- OpenJS Node.js Services Developer (JSNSD)

**“Examination” or “Exams”** means a test provided by the LF, possibly through an Exam Proctoring Partner, which is used to determine whether to issue Certification(s).

---

## **2. Confidentiality and Intellectual Property Ownership**

### **2.1 Confidentiality**

LF makes exams available to you solely to test your knowledge of the exam subject matter for which you seek Certification. You are expressly prohibited from disclosing, publishing, reproducing, or transmitting any exam and any related information including, without limitation, questions, answers, worksheets, computations, drawings, diagrams, length or number of exam segments or questions, or any communication, including oral communication, regarding or related to the exam (known collectively as “Confidential Information”), in whole or in part, in any form or by any means, oral or written, electronic or mechanical, for any purpose.

Confidential Information includes the contents of the exam, which may not be disclosed as set forth above, including to any employee not affiliated with the LF Certification Program. A disclosure of Confidential Information by any means in violation of this Agreement undermines the integrity and security of the Program.

### **2.2 Intellectual Property Ownership**

Examination Materials are proprietary, confidential and copyrighted materials of LF (except open source code incorporated therein, which may have other copyright holders and is used pursuant to the applicable open source license). Violators of copyright law are subject to injunctions, civil liability, forfeiture of profits, punitive damages and other legal sanctions. LF will take appropriate legal action against you to protect LF's rights if you breach the provisions of this Section.

---

## **3. Certification**

### **3.1 Certification Requirements**

Certification is based upon a candidate meeting the minimum requirements of the Program, including achieving passing scores on required examinations in accordance with LF's testing guidelines. If you meet these requirements you will receive a certificate from LF signifying your accomplishment. If Certification expires (see [Section 3.2](#)), then the candidate must retake the examination and again achieve passing scores to renew the Certification.

Certification is only available for natural persons, not corporations or other legal entities. Should the candidate misuse any certificate or Marks associated with any of the Certification schemes, appropriate action will be taken to resolve the case and prevent recurrence. Serious and/or continuous misuse will give rise to Certifications being withdrawn and legal action being taken as appropriate. (Use of Marks is defined in [Section 3.6](#).)

### **3.2 Certification Period**

Certifications\* expire 36 months from the date that the Program certification requirements are met by a candidate.

\* **NOTE:** CKS Certifications expire 24 months from the date that the Program certification requirements are met by a candidate.

Candidates must meet Certification renewal requirements prior to the expiration date of their certification in order to maintain active certification. If Certification renewal requirements are not met before the expiration date, Certification will be deemed revoked without further action by The Linux Foundation and this Agreement shall terminate effective as of the expiration date, subject to the provisions of [Section 9.3](#).

### **3.3 Program Changes**

LF may, in its sole discretion, change the Program without notice. Such changes may include, without limitation, adding or deleting available Certifications and modifying Certification requirements, testing objectives, outlines, recommended training courses, and

exams. It is your responsibility to keep informed of any such modifications and if applicable, to complete new requirements for maintaining and/or renewing Certification. If any LF Certification requirements are modified, this Agreement and your LF Certification may be terminated by LF without further notice, unless you adhere to any applicable LF Certification requirements.

### **3.4 Certification Revocation**

LF will revoke Certification if you fail to comply with Certification renewal requirements. In addition, LF may, in its sole discretion, revoke any and all Certifications you may have earned and permanently ban you from earning future Certifications under any of the following circumstances:

- If you use profanity, threaten to harm, bully or in any way harass any LF or Exam Proctoring Partner employee or contractor (whether verbally or in writing, including through electronic communications or external web postings);
- If you breach the terms and conditions of this Agreement;
- If LF determines, in its sole discretion pursuant to [Section 7](#), that you have undertaken or participated in Exam Misconduct as defined in [Section 4.3](#) or violated the Professional Code of Conduct as defined in Section 6;
- If you have been convicted of a crime that LF deems, in its sole discretion, in any way harms or affects LF's or the Program's reputation, goodwill or security; or
- If you have lost or settled a civil case in which LF is the plaintiff and the claim arose from any alleged damage to LF, its brand, goodwill or reputation.

### **3.5 Certification of Minors**

If you are under the age of 16 years old, you are not eligible for testing or Certification. LF reserves the right to impose additional restrictions to comply with local data protection laws.

### **3.6 Use Of “LF Certified” Trademark(s)**

If you successfully pass an Exam and receive written indication from LF that you may use the Mark corresponding to the Exam, then LF grants you a nonexclusive revocable license to use that Mark for the purpose of indicating that you have achieved the Certification. This

license will terminate immediately upon a material breach of this Agreement, upon termination of this Agreement, or if LF notifies you of a violation of the rules in this section regarding your use of the Mark and within seven days, in the sole discretion of LF, such violation of the rules is not corrected. The rules are:

- You shall not use the Mark for any purpose other than to indicate your status as having been Certified
- The only person to use the mark will be You; You will not allow its use of any other person or legal entity on your behalf
- You agree that your use of the Mark may be terminated at any time if, in the sole discretion of LF, LF determines that you are in breach of this agreement
- You agree to only use the Mark in the form provided to you by LF, and not to modify the color, text, proportions or other aspects of the Mark except for the size, which may be adjusted in even proportion
- You agree not to take any action that might injure the brand image and/or goodwill embodied in the Mark, or in any other marks owned or licensed by LF, including without limitation the “LF” trademarks.
- You agree not to make partial or entire use of the Mark as part of your own name or business name, and will not combine the Mark with any other of your marks or logos
- You agree that all right, title, and interest in the Mark shall remain with LF. You agree not to challenge the ownership or any other rights of LF in the Mark, or other marks licensed or owned by LF, including without limitation the “LF”
- You will not file in any application or registration for any trademark that is similar or identical to the Mark or to any other marks owned by LF

---

## 4. Examinations

### 4.1 Candidate ID and Consent to Photo, Video and Audio Recording

Candidates are required to provide a non-expired Primary ID that contains Candidate's photograph, signature and full name (see an example of acceptable forms of ID in the table below).

The name on your Primary ID **must exactly match** [the verified name](#) on your exam checklist.

If the Candidate's full name on their Primary ID contains non-latin characters, then the Candidate must ALSO provide a non-expired Secondary ID containing their full name in Latin Characters and signature, OR a notarized English translation of their Primary ID along with the non-latin character Primary ID.

<b>Primary ID (non-expired and including photograph and signature)</b>	<b>Secondary ID (non-expired and including signature with Candidate name in Latin characters)</b>
Passport	
Government-issued driver's license/permit	Debit (ATM) Card
Government-Issued local language ID (with photo and signature)	Credit Card
National Identity card	Health Insurance Card
State or province-issued identity card	U.S. Social Security Card
住民基本台帳 (Basic resident register with Photo) or マイナンバーカード (My number card)	Employee ID card
	Student ID card
	Japanese Health Insurance Card

#### Additional Allowances:

- Some government issued ID such as a passport, driver's license, military ID or state/country card may be a biometric type and may or may not contain a signature. In these cases Primary ID will be accepted without a signature on condition that you also present a Secondary ID which does contain your signature (e.g. bank, credit or debit card)
- For candidates testing in Japan, a Driver's License (with name and recent recognizable photo) is acceptable as a primary ID as long as it is accompanied with a valid Japanese health insurance card (健康保険証).
- Minors, between the age of 16-18, are permitted to take an online proctored exam with PSI, provided they complete the following requirements:
  - A Parent/Guardian must complete the [Parental Release for Testing of Minors](#) form, and submit it to [trainingsupport.linuxfoundation.org](mailto:trainingsupport.linuxfoundation.org), at least 2 weeks prior to the

- scheduled date of the exam
- At check in, the minor candidate must present a valid student ID as a form of identification
  - During the PSI check-in process, the candidate's guardian must also present a valid ID and must provide verbal consent during the PSI check-in process.

## 4.2 Sanctioned Countries

Exams may be administered to citizens of a sanctioned country listed below PROVIDED the citizens are tested OUTSIDE the sanctioned country and their exam registration and current ID show an address OUTSIDE the sanctioned country.

- Cuba
- Iran
- Syria
- Sudan
- North Korea
- Crimea Region of Ukraine

Candidates must consent to having their photo taken and may be required to scan their government issued identification for the exam Proctoring Partner. These will be used for identity verification only and are not retained for any other purpose.

In addition, live audio, video, chat log, and desktop feed of a candidate's testing session will be screenshared and streamed to a remote proctor and recorded. Test session recordings are stored for no more than 90 days. The recordings are only accessed by authorized program or exam proctoring partner staff and only in the event of reported irregularities or a candidate appeal regarding an exam session.

## 4.3 Exam Rules and Policies

Candidates must start their exam no later than 15 minutes after the scheduled start time. If a candidate does not start their exam within 15 minutes of the scheduled start time, they will be automatically marked as a no-show and no refund or rescheduling will be allowed.

Candidates must also comply with the following rules and policies during the Exam, and the Proctor cannot release the Exam until the Candidate has indicated that they have read, understood and accept these rules and policies:

### **Testing Location Rules**

- Room must be quiet, private and well lit
- Bright lights or windows should not be positioned behind the Candidate
- Testing from public spaces such as coffee shops, stores, etc. is not allowed
- No one other than the Candidate can be present in the room
- Desk must be clear of all notes and electronics

### **Candidate Conduct Rules During Exam**

- Candidate is not allowed to communicate with anyone other than the Proctor during the Exam
- Candidate is not allowed to read the questions out loud, to themselves, during the exam
- Candidate is not allowed to leave their desk or step out of view of the webcam, unless they have been granted specific permission by the Proctor
- Candidate is not allowed to eat, drink (except clear liquids as per rule below), or chew gum
- Candidate is permitted to drink clear liquids from a label-free clear bottle or a clear glass
- Candidate is not allowed to wear any electronic device in their ears, on their face or on their body unless medically necessary
- Candidate must refrain from making excessive and/or repetitive noise
- Candidate must refrain from covering their mouth and/or face
- Candidate is not allowed to write or enter input on anything (whether paper, electronic device, etc.) outside of the Exam console screen
- Candidates must comply with any requests from the Proctor. If Candidate fails to comply, the Exam will be terminated

### **Policy on Tools and Resources Allowed During Exam**

Click on your exam title to see Resources Allowed:

- [Linux Foundation Certified System Administrator \(LFCS \)](#)
- [Linux Foundation Certified Engineer \(LFCE \)](#)

- [Cloud Foundry Certified Developer \(CFCD\)](#)
- [Certified Kubernetes Administrator \(CKA\)](#)
- [Certified Kubernetes Application Developer \(CKAD\)](#)
- [Certified Kubernetes Security Specialist \(CKS\)](#)
- [Certified Hyperledger Sawtooth Administrator \(CHSA\)](#)
- [Certified Hyperledger Fabric Administrator \(CHFA\)](#)
- [Certified Hyperledger Fabric Developer \(CHFD\)](#)
- [Certified ONAP Professional \(COP\)](#)
- [OpenJS Node.js Application Developer \(JSNAD\)](#)
- [OpenJS Node.js Services Developer \(JSNSD\)](#)

The following resources are forbidden during the Exam:

- Use of devices other than the exam desktop
- Notes
- Notepads
- Course manuals
- Devices external to computer on which they are taking the exam, including but not limited to: mobile phones, PDAs, wearable computers, smart glasses, smart watches

### **Policy on Warnings and Exam Terminations**

- Certain kinds of violations will result in a warning from the Proctor, while certain other violations result in IMMEDIATE TERMINATION OF THE EXAM WITHOUT WARNING.
- If a warning is issued by the Proctor, the Exam will be paused until the Candidate is able to amend or resolve the observed violation.
- If a Candidate is found to be in violation of the same rule more than twice or is found to be in violation more than four times on any combination of rules, the Exam will be terminated immediately.
- The following actions result in IMMEDIATE TERMINATION OF THE EXAM WITHOUT WARNING:
  - Candidate refuses to comply with a Proctor request
  - Candidate is observed to be copying Exam content, whether with software, external device(s), manual transcription, or other means
  - Candidate steps out of view of the webcam for extended amount of time without the Proctor's permission

- Someone other than the Candidate is observed to complete or assist with any part of the Exam
- A discrepancy exists between the input on a Candidate's screen and the Candidate's observed activity

## **4.4 Exam Misconduct Policy**

Candidates engaging in Exam Misconduct, as defined below, will not be allowed to complete the Exam or receive an exam result. Such candidates will also be barred from taking any other LF Certification Exam and if applicable, will have any active LF Certification(s) withdrawn. Refunds will not be given and rescheduling will not be allowed in the event of early termination of an exam due to misconduct. Misconduct may, at any time, result in application of the sanctions specified in [Section 7](#). You shall adhere to all Program rules and shall not engage in any action to subvert, or attempt to subvert, the examination process ("Exam Misconduct") including but not limited to:

- Failing to comply with the Exam Rules and Policies as listed in [Section 4.2](#)
- Disseminating actual exam content by any means, including, but not limited to, web postings, formal or informal test preparation or discussion groups, chat rooms, reconstruction through memorization, study guides, or any other method, as well as providing exam content or information to any person not expressly authorized by LF to receive such content or information (including but not limited to an LF employee who is not part of the Certification Program staff)
- Copying or otherwise transferring, modifying, making derivative works of, reverse engineering, decompiling, disassembling, or translating any Exam or any part thereof
- Seeking and/or obtaining unauthorized access to examination materials (this includes using recollections of others of materials from previous administration of any Exam, a.k.a. braindump material, and/or any unauthorized publication of Exam questions with or without answers)
- Using falsified or altered certificates, score reports, or other documents or electronic media to misrepresent Certification status
- Allowing another person, or an organization in which you are not actively involved, to use your certification credentials to obtain employment or promotions
- Providing falsified information, documentation or statements as a means of a false identity, false address or solicitation of someone to take a test on another's behalf
- Giving, receiving, or obtaining unauthorized assistance during the examination or attempting to do so

- Making notes of any kind during the Exam, whether on paper or via digital means (other than using the notepad provided within the exam browser tab)
- Possession of non-authorized items during the Exam
- Accepting or providing improper assistance on your Exam or Exams taken by others (e.g. by using Remote Access Software such as LiteManager)
- Removing or attempting to remove Exam material (in any format)
- Intentionally or otherwise repeatedly causing a disturbance of any kind during the Exam
- Tampering with the exam server and its environment or attempting to use it for any function other than taking an LF Exam
- Modifying and/or altering the results and/or score report for this Exam or any other Exam record
- Using computer scripts to register for Exams
- Misconduct as determined by Data Forensics as defined in [Section 4.4](#)
- Failing to adhere to any LF or Exam Proctoring Partner policy, procedure, rule, or instruction
- Using profanity, threatening to harm, bully or in any way harass any LF or Exam Proctoring Partner employee or contractor (whether verbally or in writing, including through electronic communications or external web postings)
- Otherwise violating the terms of LF's Certification and Confidentiality Agreement

## **4.5 Accuracy and Integrity of Examination Process**

Upon completion, exams are scored automatically and a score report will be made available within 3 business days. LF and/or the Exam Proctoring Partner will review your exam record for scoring accuracy, for evidence of possible misconduct, and for response patterns that may suggest that your scores do not represent a valid measure of your knowledge or competence as sampled by the examination (measurement error). LF will use statistical analyses of exam data ("Data Forensics") to identify patterns indicative of test fraud, including cheating and piracy.

LF reserves the right to invalidate your exam score and certification result if review of your exam record reveals scoring inaccuracies (attributable to LF or the Exam Proctoring Partner) or response patterns indicative of possible misconduct or measurement error. If LF determines that an Exam score is invalid due to issues that are beyond the control of the candidate, the candidate will be advised of options to retake the Exam at no charge.

## **4.6 Special Needs**

If candidates have special needs that need to be taken into account in the exam environment, they must notify LF two weeks in advance so any accommodating measures can be communicated to the Exam Proctoring Partner.

---

## **5. Statement of Non Discrimination**

The LF endorses the principles of equal opportunity. Eligibility criteria for Certification are applied equally to all individuals regardless of age, race, religion, gender national origin, veteran status or disability.

---

## **6. Professional Code of Conduct**

Candidates, before and after Certification, shall:

- Perform duties with objectivity, due diligence and professional care.
- Access private information on computer systems only when it is necessary in the course of technical duties. Maintain the privacy and confidentiality of information obtained in the course of your activities unless disclosure is required by legal authority. Such information shall not be used for personal benefit or released to inappropriate parties.
- Provide service in your areas of competence, being honest and forthright about any limitations of your experience and education. Maintain competency in your respective fields and agree to undertake only those activities you can reasonably expect to complete with the necessary skills, knowledge and competence.
- Strive to ensure the necessary integrity, reliability, and availability of the systems for which you are responsible.
- Design and maintain each system in a manner consistent with the purpose of the system to the organization.
- Inform appropriate parties of the results of work performed including the disclosure of all significant facts known to you that, if not disclosed, may distort the reporting of the results.

- Not engage in deceptive financial practices such as bribery, double billing, or other improper financial practices.
  - Obey all laws governing your work, unless, in exceptional circumstances, such compliance is inconsistent with the public interest.
  - Promote no interest adverse to your employer or client, unless a higher ethical concern is being compromised; in that case, inform the employer or another appropriate authority of the ethical concern.
  - Avoid entering into conflicting obligations with one client, such as obligations of confidentiality, availability for work, or otherwise, which conflict with obligations to another client.
  - Not unlawfully discriminate or knowingly permit unlawful discrimination on the basis of race, national origin, sex, sexual orientation, religion, age or disability in: (1) hiring, promoting, discharging, or otherwise determining the conditions of employment of any person; or (2) accepting or terminating representation of any client.
  - Identify, document, and report significant issues of social concern, of which you are aware, in software or related documents, to the employer or the client.
  - Ensure that you have no other professional or contractual obligations that are inconsistent with this Code of Conduct.
  - Participate in any investigation of exam irregularities. Refusal to co-operate can be the basis for revocation of certification or cancellation of eligibility.
  - Notify LF if they are unable to continue to perform the skills and competencies prior to their certification expiration.
- 

## **7. Exam Misconduct and Professional Code of Conduct Violations**

If LF, in its sole discretion, determines that you have engaged in Exam Misconduct (as specified in [Section 4.3](#)) or violated the Professional Code of Conduct (as specified in [Section 6](#)), you will receive written notice of the violation(s) and sanctions. It will be your sole responsibility to ensure that LF has your current postal address and email address and any notice by LF will be effective upon sending to the last postal address and/or email address you provided to LF. In determining what sanctions to apply.

LF will consider the circumstances of the violation, including information related to the frequency of violations and their implications on the security of exam content and on the

reputation of the Certification Program. Sanction decisions may include, but will not be limited to, cancellation of your exam score, a temporary or permanent ban on future LF examinations and the cancellation of previously earned LF Certifications.

---

## **8. Appeals**

In the event that sanctions are imposed pursuant to [Section 7](#), or your exam score is invalidated pursuant to [Section 4.4](#), you will have thirty (30) calendar days from the date of your notification letter to file an appeal. If you believe you have valid grounds for an appeal, please contact LF within the appeals period and submit a Certification Appeals Submission Form as instructed in the notification letter. Incomplete submissions will not be considered nor will requests be received after the thirty (30) calendar day period.

If LF determines that a request for appeal is filed within the allowable time, the submission follows required guidelines for consideration and the original sanction and invalidation decision is upheld by LF, such appeal and the information submitted by you will be forwarded to the LF Certifications Appeals Committee for consideration. You may expect to receive a written response from LF within approximately ninety (90) calendar days after the Appeals Committee meets. Decisions rendered by the Appeals Committee are final.

---

## **9. Term and Termination**

### **9.1 Term**

The Agreement commences when you first accept this Agreement and shall remain in effect until terminated pursuant to its terms.

### **9.2 Termination for Convenience**

Either you or LF may terminate this Agreement at any time, with or without cause, upon thirty (30) days written notice to the other.

## **9.3 Termination By LF**

LF may, in its sole discretion, terminate this Agreement at any time if you breach any of the material terms of this Agreement (including, without limitation, the terms set forth under Exam Misconduct in [Section 4.3](#) or Professional Code of Conduct in [Section 6](#)), or if you violate or fail to meet any Program requirements.

## **9.4 Notice of termination**

All notices of termination must be made in accordance with the notice requirements set forth in Section 13.6 below. LF will provide you written notice of termination at your last known address. Termination notices sent by LF are effective as of the date set forth in the notice. Written notices of termination directed to LF are effective upon receipt by LF. LF, without waiving its right to immediately terminate this Agreement, may provide you with thirty (30) days notice to correct any default if this Agreement is terminated under Section 9.3. If LF permits such a cure period, your failure to cure any default within the cure period shall automatically cause the termination of this Agreement without further notice.

## **9.5 Effect of Termination**

Upon the termination of this Agreement or LF's revocation of your Certification, you shall immediately cease to represent yourself as Certified by the LF.

---

## **10. Limitation of Liability**

IN NO EVENT WILL LF'S LIABILITY ARISING OUT OF OR RELATED TO THIS AGREEMENT EXCEED AMOUNTS PAID BY YOU PURSUANT TO THIS AGREEMENT. IN NO EVENT SHALL LF BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING LOST PROFITS, OF ANY KIND REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY, OR OTHERWISE, EVEN IF LF HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION WILL APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY PROVIDED HEREIN. LF's LIABILITY ARISING OUT OF

OR RELATED TO THIS AGREEMENT WILL NOT EXCEED THE DOLLAR AMOUNT OF THE PAYMENTS MADE BY YOU TO LF FOR CERTIFICATIONS.

---

## 11. Privacy and Delivery of Certification Information to Third Parties

You acknowledge that your personal information includes, without limitation, your photograph, signature, biometric data or any other personally identifying data collected from you by LF or its authorized agents, and you agree to allow LF and/or its agents to gather and store this information. Your personal information may be shared outside LF and its authorized third party vendors under the following conditions and you consent to such disclosure by your execution of this Agreement:

**Verification of Certification.** LF often receives requests from third parties, particularly employers, to verify an individual's Certification status. LF may, but has no obligation to, provide such information about your Certification status to others. LF provides such information as a courtesy to you, and you agree that LF has no liability for providing this information.

In response to verification inquiries that are submitted against a specific Certificate ID number and that include the Last Name corresponding to that certificate, LF will disclose the candidate name, certification title and status, and date of certification for that Certificate ID.

I HEREBY AUTHORIZE THE LF ("LF") TO DISCLOSE MY NAME, CERTIFICATE ID AND TITLE, THE DATE UPON WHICH SUCH ACHIEVEMENT WAS MADE, AND STATUS AS BEING ACTIVE OR INACTIVE, TO ANY PERSON OR ENTITY THAT MAKES A REQUEST TO LF REGARDING A SPECIFIC CERTIFICATE ID NUMBER, PROVIDED THAT THE REQUEST ALSO INCLUDES THE LAST NAME THAT CORRESPONDS TO THAT CERTIFICATE ID.

**Data Sharing.** LF may also share personal data provided by the candidate and details of examination scores with a third party, including Exam Proctoring Partners, in order to administer the Exams, to improve the testing program and experience, to facilitate statistical analyses, and to determine if Candidate passed the Exam.

**Limited Disclosure.** LF may share your information in the following ways: (a) to comply with the law or legal process (such as responding to subpoenas or court orders), (b) to exercise our legal rights or defend against legal claims related to this Agreement, (c) to investigate, prevent, or take action regarding illegal activities, suspected or potential fraud, and brand protection matters (such as use of LF's trademark without a license), (d) situations involving potential threats to the physical safety of any person.

Candidate Information may be transmitted or otherwise transferred outside of the country or geographic region in which you reside or in which you took any LF certification examination. You are aware that data protection regulations in other countries, including, without limitation, the United States of America, may not fully correspond with data protection regulations in your region and may provide less effective protection.

---

## 12. Assignments

You may not assign any rights, licenses or obligations received under this Agreement to anyone. Any attempted assignment in violation of this Agreement is null and void and without effect.

---

## 13. Miscellaneous

### 13.1 Waiver and Modification

You waive any right to challenge the validity and enforceability of this Agreement on the grounds that it was transmitted and entered into electronically. You agree that entering into the Agreement electronically is equivalent to signing the Agreement. Failure by either party to enforce any provision of this Agreement will not be deemed a waiver of future enforcement of that or any other provision. Any waiver, amendment or other modification of any provision of this Agreement will be effective only if in writing and signed by both you and LF.

### 13.2 Severability

If a court of competent jurisdiction finds any provision of this Agreement to be unenforceable, that provision of the Agreement will be enforced to the maximum extent permissible so as to affect the intent of the provision, and the remainder of this Agreement will continue in full force and effect.

### **13.3 Survival**

[Sections 2](#) (Confidentiality and Intellectual Property Ownership), [3.4](#) (Certification Revocation), [4.3](#) (Exam Misconduct Policy), [7](#) (Exam Misconduct and Professional Code of Conduct Violations), [9.5](#) (Effect of Termination), [10](#) (Limitation of Liability), [11](#) (Privacy and Delivery of Certification Information to Third Parties), and [13](#) (Miscellaneous) will survive termination of this Agreement.

### **13.4 Controlling Law and Jurisdiction**

This Agreement will be governed exclusively by the internal laws of the State of Oregon, without reference to: such State's principles of conflicts of law; the 1980 United Nations Conventions on Contracts for the International Sale of Goods; or other international laws. The parties consent to the personal and exclusive jurisdiction of the federal and state courts in Oregon.

### **13.5 Entire Agreement**

This Agreement constitutes the entire agreement between you and LF with respect to the subject matter hereof, and supersedes all prior and contemporaneous understandings or agreements, written or oral, regarding such subject matter.

### **13.6 Notices**

All notices sent or required to be sent shall be in writing or by e-mail to the other party at the address for the other party set forth below. It shall be your sole responsibility to ensure that LF has a current address for you.

---

## **14. Confirmation**

By indicating your acceptance of the terms and conditions of this Agreement, you hereby represent to LF that you: (1) have read and understood the terms of this agreement; and (2) are sixteen years of age or older. You acknowledge that LF is relying upon such representations in granting certification. LF shall have the right to deny certification should you fail to meet these requirements or in the event otherwise prohibited by law.

*The Linux Foundation has registered trademarks and uses trademarks. For a list of trademarks of The Linux Foundation, please see our [Trademark Usage Page](#). Linux is a registered trademark of Linus Torvalds.*

# Certification Exam Terms of Service

This registration gives you eligibility to take the exam for which you registered ("Exam") within 12 months of the registration date.

## Refund Policy for Exam Registration Fees

You may request a refund of exam registration fees if both of the following are true:

- (a) Your exam registration purchase was less than three (3) business days ago AND
- (b) You have not yet scheduled an exam reservation

If you are eligible for a refund (per the Exam Refund Policy), please login with your LF Account to <https://trainingsupport.linuxfoundation.org> and select your request type from the categories provided.

## Reschedule or Cancel an Exam Reservation

An exam reservation may be rescheduled or cancelled up to 24 hours before the start time of the exam. You will not be able to make changes to the exam reservation when 24 hours or less remain before the start time of the exam.

If you are a "No-Show" for your scheduled exam reservation, you forfeit the exam registration fees (no refund) and you will not be eligible for a free retake.

## Retake Policy

One (1) free retake per Exam purchase will be granted in the event that a passing score is not achieved and Candidate has not otherwise been deemed ineligible for Certification or retake.

Unless otherwise indicated in the exam order, the free retake must be taken within 12 months of the date of the original Exam purchase.

For exam purchases made through an Authorized Training Partner, contact the specific Partner to check eligibility for a free retake.

For exam purchases marked as SINGLE-ATTEMPT or SINGLE, only a single attempt will be granted.

# **Linux Foundation Certification Exams:**

## **Candidate Handbook**

The Linux Foundation is a non-profit consortium dedicated to fostering the growth of Linux. Founded in 2007, The Linux Foundation sponsors the work of Linux creator Linus Torvalds and is supported by leading Linux and open source companies and developers from around the world.

The Linux Foundation works closely with open source project communities to deliver relevant, respected, hands-on certifications to technology professionals around the world. The Linux Foundation is unique in that we don't just provide the certifications for today's most in-demand technologies; our involvement goes far beyond that. We host the projects developing these technologies and provide resources and staffing to help keep these development communities healthy and thriving. So when it comes right down to it, no one is closer to these technologies than The Linux Foundation.

# Candidate Requirements

Linux Foundation Certification Exams are delivered online and are closely monitored by a proctor during the exam session via streaming audio, video and screensharing feeds. The screensharing feed allows proctors to view candidates' desktops (including all monitors). The audio, video, and screen sharing feeds will be stored for a limited period of time in the event that there is a subsequent need for review.

---

## System Requirements

Candidates must provide their own computer with:

- Current version of Chrome or Chromium
  - you don't need to install a virtual machine, use a client machine, or anything beyond a Chrome or Chromium browser
  - Make sure you have third party cookies turned on for the duration of the exam.
- Reliable internet access
  - Ensure others on the same internet connection are not performing activities that use excessive bandwidth (i.e. holding conference calls, streaming content, gaming, etc.)
  - A wired connection is often more stable and robust than a wireless connection
  - Turn off bandwidth-intensive services (e.g. file sync, dropbox, BitTorrent)
- Microphone
  - Please check to make sure it is working before you start your exam session.
- Webcam
  - Ensure the webcam is capable of being moved as the proctor may ask you to pan your surroundings to check for potential violations of exam policy.
  - Try holding up your ID while viewing your webcam feed to ensure your placement and resolution are sufficient for the person viewing your feed to read your ID.
  - If you will be testing from an employer-provide ISP or will use an employer provided machine, please ensure that streaming will be allowed using WebRTC.

## Hardware Compatibility Check

Candidates should run the [compatibility check tool](#) provided by the Exam Proctoring Partner to verify that their hardware meets the minimum requirements.

The tool is located at

<https://www.examslocal.com/ScheduleExam/Home/CompatibilityCheck>.

Select “Linux Foundation” as the Exam Sponsor and select your Exam Code (e.g. CKA, LFCS, JSNAD etc)

---

## LF Account

Candidate should have their own LF account. For more details on how to create LF account, please refer to [Creating LF Account](#).

---

## Testing Environment Requirements

Below are the expectations for an acceptable testing location::

- Clutter-free work area
  - No objects such as paper, writing implements, electronic devices, or other objects on top of surface
  - No objects such as paper, trash bins, or other objects below the testing surface
- Clear walls
  - No paper/print outs hanging on walls
  - Paintings and other wall décor is acceptable
  - Candidates will be asked to remove non-décor items prior to the exam being released
- Lighting
  - Space must be well lit so that proctor is able to see candidate’s face, hands, and surrounding work area
  - No bright lights or windows behind the candidate
- Other
  - Candidate must remain within the camera frame during the examination
  - Space must be private where there is no excessive noise. Public spaces such as coffee shops, stores, open office environments, etc. are not allowed.

## Co Located Exams

If multiple Candidates are taking an exam at the same time in one location, then at least four feet (1.2 meters) of empty space on all sides must be enforced or privacy partitions must be installed.

---

## Certification and Confidentiality Agreement

Candidates must accept the terms and conditions of the Linux Foundation Global Certification and Confidentiality Agreement **during the registration process and again prior to testing.**

The agreement is located at <https://docs.linuxfoundation.org/tc-docs/certification/lfc-cert-agreement>

This is a legally-binding agreement that applies to all exams.

Acceptance and adherence to this agreement is required in order to be exposed to the exam and to be officially certified.

Failure to accept the terms of this agreement will result in a terminated exam and forfeiture of the entire exam fee.

# Exam Registration

Registering for an exam gives the candidate an eligibility to *schedule* and then *take* the exam. Registering for an exam is not the same as "Scheduling" an exam. When the candidate *registers* for an exam they will have 12 months to *schedule* and *take* the exam. That means they must schedule an exam reservation date to occur within 12 months of purchase. After 12 months, the exam registration expires and the candidate will no longer be eligible to schedule or sit for the exam.

---

## Exam Fees & Payment

The cost per Exam is \$300 USD. Only credit card payments can be used for payment and all major credit cards are accepted.

Volume discounts are available for companies with multiple candidates. Please click on the "Get a Quote" link on our certification product page(s).

---

## Register for an Exam

To register for an exam the candidate will go to [The Certification Catalog](#), select the Certification Exam they wish to purchase and click the "Enroll Today" button.

Candidates will be redirected to The Linux Foundation LMS where they can

- (a) Sign in with an existing LF Account and proceed to the secure checkout to complete the transaction or (b) Create a new LF Account by providing a Username, First/Last name and Email address, and proceed to the secure checkout to complete the transaction.

A request to "Verify your Email" will be sent to the email address provided when creating a new LF Account. When the candidate has completed their purchase, they must follow the instructions in the email to "Verify Email" in order to gain access to their Certification Exam.

## **Secure Checkout**

To complete the checkout process, candidates will click "Enter Payment Information" and enter their Credit Card information. Prior to completing their order, candidates will be prompted to read and accept [The Linux Foundation Terms and Conditions](#).

## **Returning Customers**

If the candidate is a returning customer and a credit card has been saved to their account, the system will display the last 4 digits of the credit card on file, and advise that this card will be charged.

If the candidate wants to use a different credit card to complete the purchase, they must:

1. login to [My Portal](#) and click on "Account" (click the down arrow beside their profile name to see the link to your "Account" )
2. Click "Update Credit Card Info" and enter the details of their credit card
3. Click "Save Credit Card" to update the Credit Card details on file.

## **Purchase History / Receipt for your purchase**

Candidates can login to [My Portal](#) and click on the Purchase History option to view all their transactions and print a receipt.

If candidates need to print a receipt for purchases completed **BEFORE** June 20, 2020, they can:

- login to [identity.linuxfoundation.org](https://identity.linuxfoundation.org) with your LFID
- Click on the "Orders" tab to view a list of purchases completed
- Click on the order you wish to use and click on the "Printable Invoice" Tab

---

## **How to Purchase an Exam Eligibility as a Gift (Purchase for someone else)**

To make a purchase on behalf of someone else, select the Certification Exam Product from our [Certification Catalog](#) and click on the "Buy as a Gift" option.

You will be prompted to enter the recipient's First and Last Name, and their Email Address. Clicking on "Enter Payment Information" will redirect you to the Secure Checkout page to complete your order.

The recipient of the "Gift" will receive an email with instructions on how to Redeem a Code provided for the Certification Exam purchased on their behalf.

# Candidate Identification & Authentication

Candidates are required to provide a non-expired Primary ID that contains Candidate's photograph, signature and full name (see acceptable forms of ID in the table below).

The name on your Primary ID **must exactly match** [the verified name](#) on your exam checklist.

If the Candidate's full name on their Primary ID contains non-latin characters, then the Candidate must ALSO provide a non-expired Secondary ID containing their full name in Latin Characters and signature, OR a notarized English translation of their Primary ID along with the non-latin character Primary ID

Primary ID (non-expired and including photograph and signature)	Secondary ID (non-expired and including signature with Candidate name in Latin characters)
Passport	Debit (ATM) Card
Government-issued driver's license/permit	Credit Card
Government-Issued local language ID (with photo and signature)	Health Insurance Card
National Identity card	U.S. Social Security Card
State or province-issued identity card	Employee ID Card
住民基本台帳 (Basic resident register with Photo) or マイナンバーカード (My number card)	Student ID Card
	Japanese Health Insurance Card

## Additional Allowances:

- Some government issued ID such as a passport, driver's license, military ID or state/country card may be a biometric type and may or may not contain a signature. In these cases Primary ID will be accepted without a signature on condition that you also present a Secondary ID which does contain your signature (e.g. bank, credit or debit card)

- For candidates testing in Japan, a Driver's License (with name and recent recognizable photo) is acceptable as a primary ID as long as it is accompanied with a valid Japanese health insurance card (健康保険証). In Japan, the Japanese health insurance card (健康保険証) is an acceptable form of secondary ID.
- Minors, between the age of 16-18, are permitted to take an online proctored exam with PSI, provided they complete the following requirements:
  - A Parent/Guardian must complete the [Parental Release for Testing of Minors](#) form, and submit it to [trainingsupport.linuxfoundation.org](https://trainingsupport.linuxfoundation.org), at least 2 weeks prior to the scheduled date of the exam
  - At check in, the minor candidate must present a valid student ID as a form of identification
  - During the PSI check-in process, the candidate's guardian must also present a valid ID and must provide verbal consent during the PSI check-in process.

---

## Sanctioned Countries

Exams may be administered to citizens of a sanctioned country listed below PROVIDED the citizens are tested OUTSIDE the sanctioned country and their exam registration and current ID show an address OUTSIDE the sanctioned country.

- Cuba
- Iran
- Syria
- Sudan
- North Korea
- Crimea Region of Ukraine

If you need additional help, please login to [trainingsupport.linuxfoundation.org](https://trainingsupport.linuxfoundation.org) and use the search bar to find an answer to your question, or select your request type from the categories provided.

# Exam Refund Policy

You may request a refund of exam registration fees if both of the following are true:

- (a) Your exam registration purchase was less than three (3) business days ago AND
- (b) You have not yet scheduled an exam reservation

If you are eligible for a refund (per the Exam Refund Policy), please login with your LF Account to <https://trainingsupport.linuxfoundation.org> and select your request type from the categories provided.

# My Portal

Candidates can access My Portal at any time by going to <https://trainingportal.linuxfoundation.org/learn/dashboard> or by clicking on the My Portal Menu item from <https://training.linuxfoundation.org/>.

Candidate can login into My Portal when they have the LF account. On how to create LF account, please refer [Creating LF Account](#).

-  Candidates can use latest version of Chrome, Firefox, and Microsoft browsers to access My Portal.

When a new browser version is released, we support the latest version and we stop supporting the third most recent version of such browser.

Once a candidate has logged into My Portal, they will be able to view the status of their Certification Exams and their courses.

The main page of the Portal also includes a link to:

- View your purchase history (for orders completed after June 20, 2020)  
The purchase history section reflects only paid transactions.  
Products which are \$0 or paid for using 100% prepaid codes are not displayed here
- View your exam results
- Update your account information (e.g. Credit Card on file)
- Manage your profile

The screenshot shows the 'My Portal' section of the Linux Foundation Training website. At the top, there's a dark header bar with the 'THE LINUX FOUNDATION TRAINING' logo, a search bar, and links for 'Apply Registration Code', 'Purchase History', 'Exam History', and a user profile icon. Below the header, a teal banner on the left says 'Hi there, Welcome to My Portal.' On the right, there are two summary boxes: 'COURSE STARTED' (1 course) and 'COURSE COMPLETED' (0 courses). A red arrow points from the text 'View your purchases' at the top right towards the 'Purchase History' link in the header.

In the main content area, under the 'In Progress' tab, there are two items:

- CERTIFICATION** Technical Services Certification A (TSCA)  
SHOW PROGRESS ▶ Resume
- E-LEARNING** Essentials of Linux System Administration (LFS201)  
SHOW PROGRESS ▶ Start e-Learning

A red arrow points from the text 'Courses and Certification Exams now on the same page' to the LFS201 item. Another red arrow points from the 'Click to see your exam checklist' text to the 'Resume' button for the TSCA certification.

Unused Certification Registrations (eligibilities) or Certifications in progress, will be shown in the "In Progress" tab of the Portal. If this is your first visit to "My Portal" the "Start Certification" button will be displayed beside your Certification Exam name, after that, the button will display "Resume" (as shown above).

Click on the button displayed to get to your exam checklist.

# My Profile

Candidates can access My Profile page at any time by going to <https://trainingportal.linuxfoundation.org/learn/dashboard>.

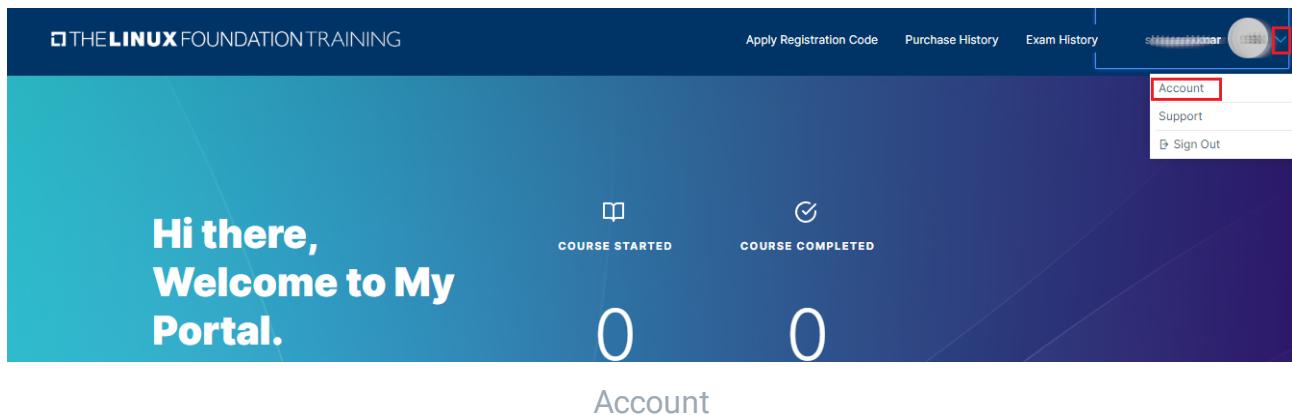
Once a candidate has logged into My Portal, they will be able to view My Profile.

My Profile page allows candidates to:

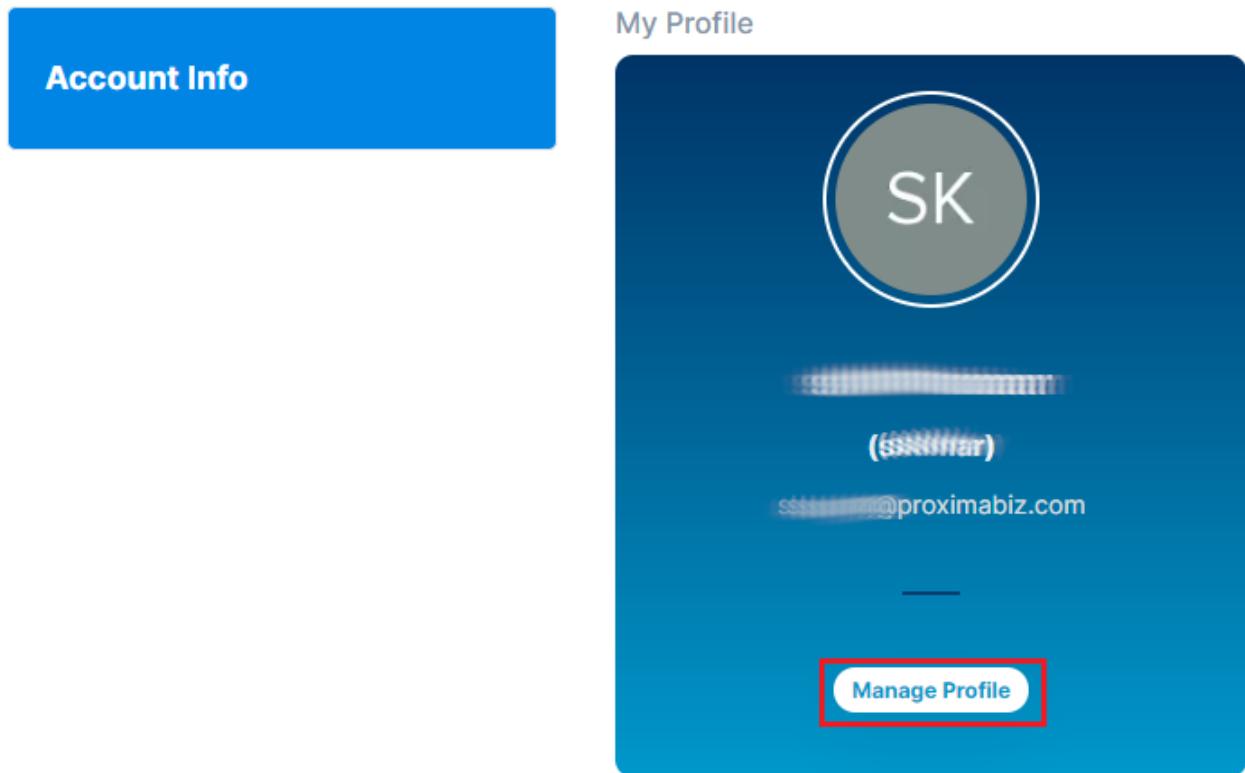
- View your certification badges.
- Change account password
- Add alternative emails
- Link account to social media accounts
- Purchase Linux.com alias email
- View your training and certifications
- View events
- View your transactions

To access My Profile page, perform the following:

1. Login to [My Portal](#). Click the  icon and select **Account**.



2. The Account Info page appears. Click **Manage Profile**.



## Manage Profile

3. You will be navigated to **My Profile** page. For more information, refer [My Profile](#).

A screenshot of the 'MyProfile - Identities and Badges' page. The top navigation bar includes 'THE LINUX FOUNDATION' logo, 'My Profile' link, 'Logout' link, and a help icon. The main content area is titled 'My Profile' and displays a placeholder profile picture for 'John Doe(jd704337)' with the email 'jd704337@gmail.com'. It shows the country as United States and the last update date as 'Wednesday, 15 Jul 2020, 4:09 pm'. There are buttons for 'Edit My Information' and 'Change Password'. Below this is a 'Badges' section showing six achievement icons: 'LINUX FOUNDATION MEMBER', 'CERTIFIED SYSADMIN', 'CERTIFIED ENGINEER', 'CERTIFIED FABRIC ADMINISTRATOR', 'CERTIFIED SAWTOOTH ADMINISTRATOR', and 'CERTIFIED DEVELOPER'. There are also sections for 'Linked Accounts' (with icons for Google, GitHub, LinkedIn, and Facebook) and 'Linux.com Email' (with fields for 'Email Alias' set to 'jd704337@linux.com' and 'Forward To' set to 'john@gmail.com'). At the bottom is an 'Alternate Email' section with two input fields: one containing 'aniwoo@yahoo.com' and another containing 'jd704337@linux.com'.

MyProfile - Identities and Badges

 My Profile

 Logout

### Events I am Attending

[Upcoming](#) [Past](#)

Event Name	Location	Date	Role
KubeCon + CloudNativeCon North America 2020	Boston, Massachusetts, US	Nov 17 Nov 19, 2020   3 days	 Speaker
KVM Forum 2020	Convention Centre Dublin	Oct 28 Oct 30, 2020   3 days	 Speaker

### Roles

[Community](#) [Membership](#)

Foundation/Project Name	Role	Committee	Voting Status
 Envoy	Lead	Technical	Voting Rep
 Cloud Native Computing Foundation	Vice Chair	Board	Voting Rep
 Hyperledger Project	Developer Seat	Working Group	Observer

## MyProfile - Events and Community Participation

 My Profile

 Logout

### Training & Certifications

[Certifications](#)

Course Name	Date & Duration	Status
Technical Services Certification A	Jun 16 Jul 14, 2020   29 days	Pending
Certified Kubernetes Administrator (CKA)	Jun 09 Jul 07, 2020   29 days	Pass
Linux Foundation Certified System Administrator (LFCS)	Mar 10 Jul 13, 2020   4 months 4 days	Failed

### My Transactions

All Transactions

Order ID	Transaction ID	Date	Status	Transaction Value
LNXISHG	KVM Forum 2020	Jul 13, 2020   12:00:00	Completed	\$150
02117000002xmiWAAQ	Individual Supporter	Jul 13, 2020   00:00:00	Completed	\$99
02117000002xmibAAA	Email Add-On	Jul 13, 2020   00:00:00	Completed	\$150
ZYDSMML	Linux Security Summit North America 2020	Apr 06, 2020   12:00:00	Completed	\$120

Copyright © 2020 The Linux Foundation\*. All rights reserved. The Linux Foundation has registered trademarks and uses trademarks. For a list of trademarks of The Linux Foundation, please see our [Trademark Usage](#) page. Linux is a registered trademark of Linus Torvalds.

## Trainings, Certifications and More...

# Exam Preparation Checklist

## Checklist Items

### Exam Preparation Checklist

<input type="radio"/> Agree to Global Candidate Agreement	<a href="#">Read Now</a>	<a href="#">Agree to Global Candidate Agreement</a>	<a href="#">?</a>
<input type="radio"/> Verify Name	Status: Pending	<a href="#">Verify Now</a>	<a href="#">?</a>
<input type="radio"/> Select Platform	Platform: <a href="#">Select Platform</a> ▾	<a href="#">Confirm</a>	<a href="#">?</a>
<input type="radio"/> Schedule an Exam	Exam Code: LFCS Exam Date: <a href="#">Schedule</a>	Expiration Date: June 18, 2021 <i>The following items are required to be checked in order to proceed with scheduling your exam: Agree to Global Candidate Agreement, Select a Platform, Verify your name</i>	<a href="#">?</a>
<input type="radio"/> Check System Requirements	<a href="#">Check Now</a>		<a href="#">?</a>
<input type="radio"/> Get Candidate Handbook	<a href="#">Read Now</a>		<a href="#">?</a>
<input type="radio"/> Read the Important Instructions	<a href="#">Read the Important Instructions</a>		<a href="#">?</a>
<input type="radio"/> Take Exam	Pending this section will be available once you have completed all the steps above		
Where's my Free Retake? <a href="#">?</a>			

Candidates should use the exam checklist to review and complete the steps necessary to *schedule* and *take* the exam. When items in the checklist have been completed, a green check mark will appear next to the item.

**Please Note:** The "Schedule" Button will become active, and the Candidate will be able to proceed to schedule an exam, only after they complete the first 3 checklist items:

- Agree to Global Candidate Agreement
- Verify Name
- Select Platform

Checklist Item	Action Required
Agree to Global Candidate Agreement	Candidates must click on the "Agree to Global Candidate Agreement" to indicate they agree to the "Linux Foundation Global Certification and Candidate Agreement" (available for review by clicking on the "Read Now" button.

---

Verify Name	Candidates must click on "Verify Now" to confirm that the First and Last name displayed in this field matches the Government-Issued Photo ID that they will present to the Exam Proctor, at the time of their exam, to verify their identity. <ul style="list-style-type: none"><li>• Click in the field to edit the First or Last name displayed.</li><li>• Click "Accept" to confirm.</li></ul>
-------------	---

---

Select Platform	The candidate's exam will be provisioned on the Platform displayed. To select a different platform, <i>and if this is an available option</i> , click on the Platform drop down list and select a preferred platform. Click "Confirm" when done.
-----------------	--

---

The *Schedule* button will become available, approximately 30 mins AFTER the candidate has completed the first 3 checklist items.

Schedule an Exam	Clicking on "Schedule" will redirect the candidate to our scheduling partner's site (PSI). Candidates will login to the PSI site with their LF Account, and search for their exam by exam code (e.g. LFCS, CKA), Exam Title or Sponsor Name (The Linux Foundation).
------------------	---

Candidates will select from available dates and times for an exam reservation.

The Candidate must select a date and time that falls before the expiration date of their exam.



---

	The Candidate must check that the system they will use to take the exam meets the minimum requirements. Clicking on the "Check Now" button will direct the Candidate to a Compatibility Check Tool.
Check System Requirements	Candidates should select "Linux Foundation" as the sponsor, and select their exam code (e.g. LFCS, CKA) and click go to run the Compatibility Check.
	Candidates should review the results of the check.

---

#### If Prompted, You must install the PSI Google Chrome Extension

Get Candidate Handbook	Candidates should click on the "Read Now" button to familiarize themselves with the Candidate Handbook prior to taking the exam.
------------------------	--

---

#### **Candidates must complete all checklist items before their scheduled Exam time**

Take Exam	The "Take Exam" button will become available 15 minutes prior to the scheduled exam time.  Clicking on "Take Exam" will redirect candidates to the proctoring partner's site, where they will login with their LFID and launch the exam.
-----------	--

---

## Verify Your Name

Before the candidate schedules the exam, they must click on the "Verify Now" link to ensure that the First and Last Name listed on their Linux Foundation ID account matches the government-issued photo ID that will be presented to the Exam Proctor, at the time of their exam, to verify their identity.

This will be the same name printed on your certificate, should you pass the exam and become certified.

- Click within the field to edit the First or Last name displayed.
  - Click "Accept" to confirm.
-

# Platform Selection

The candidate's exam will be provisioned on the Platform displayed in the "Select Platform" field. To select a different platform, *and if this is an available option*, candidates may click on the Platform drop down list and select their preferred platform.

The Candidate may change their selected platform as often as they wish, and up to 24 hrs prior to their scheduled exam date and time. Platform selection options for Linux Foundation Certification Exams are as follows:

Linux Foundation Certification Exam Name	Platform Option Available
LFCA	No Platform
LFCS	CentOS 7 Ubuntu 18.04 <a href="#">Coming Soon: Ubuntu 20.04 + CentOS Stream 8</a>
LFCE	CentOS 7 Ubuntu 18.04 <a href="#">Coming Soon: Ubuntu 20.04 + CentOS Stream 8</a>
CKA	Ubuntu 18.04
CKAD	Ubuntu 18.04
CKS	Ubuntu 18.04
CFCD	Ubuntu 18.04
JSNAD	CentOS 7
JSNSD	CentOS 7
CHFA	Ubuntu 16
CHSA	Ubuntu 16

---

CHFD

nodejs\_nodejs

---

COP

Ubuntu 18.04

---

## Accommodations for Special Needs

If a candidate has special needs that need to be taken into account during exam administration, they must return the [Linux Foundation Certification Program Special Accommodation Request Form](#) to [trainingsupport.linuxfoundation.org](mailto:trainingsupport.linuxfoundation.org).

The completed form must be submitted at least two (2) weeks before the candidate's scheduled exam.

# Scheduling or Rescheduling an Exam

## Choosing a Date and Time for your Exam

Candidate's have 12 months, from the date of exam registration, to *schedule* and *take* their exam (plus their free retake if eligible). The Expiration Date displayed in My Portal is the last date on which the exam can be taken. After this date, the candidate's exam eligibility will be marked `expired`.

Candidates will click the "Schedule" button to be directed to the [Exam Proctoring Partner's scheduling site](#). Candidates will login, using their LF Account, and then can search for their exam eligibility by:

- Exam title (e.g. Linux Foundation Systems Administrator)
- Exam code (e.g. LFCS, CKA)
- Sponsor Name (The Linux Foundation)

Candidates will then be prompted to select their preferred date and the timezone in which they will be taking the exam.

**Exams require a 24-hour lead time to allow for the preparation of the virtual machines,** so the earliest possible reservation date will be the following day. Additionally, the latest possible date presented in the scheduling calendar is 60 days out.

---

## Cancelling or Rescheduling Your Exam

Candidates may cancel or reschedule their exam reservation up to 24 hours before the scheduled start time of their exam. Reservation changes are NOT POSSIBLE when 24 hours or less remain before the exam start time.

If a candidate is a "No-Show" for their scheduled exam reservation, they forfeit the exam registration fees (no refund) and they will not be eligible for a free retake.

If the candidate needs to cancel or reschedule their exam, they may do so by logging into [My Portal](#) and selecting the “Cancel or Reschedule” option. They will be redirected to our [Proctoring Partner's Scheduling site](#).

Click on "My Exams"

Click on the Scheduled exam and then click on Cancel or Reschedule Button

The candidate will receive an email from our Proctoring Partner (PSI) confirming that their reservation has been cancelled.

The "Schedule" button will become available again in the Exam Preparation Checklist, and the candidate can commence the Schedule Exam process again.

Candidates will not be able to make changes to the exam reservation when 24 hours or less remain before the start time of the exam.

# Exam Rules and Policies

Candidates must start their exam no later than 15 minutes after the scheduled start time. If a candidate does not start their exam within 15 minutes of the scheduled start time, they will be automatically marked as a no-show and no refund or rescheduling will be allowed.

Candidates must also comply with the following rules and policies during the Exam, and the Proctor cannot release the Exam until the Candidate has indicated that they have read, understood and accept these rules and policies as presented in the [The Linux Foundation Global Candidate Certification and Confidentiality Agreement](#).

---

## Testing Location Rules

- Room must be quiet, private and well lit
  - Bright lights or windows should not be positioned behind the Candidate
  - Testing from public spaces such as coffee shops, stores, etc. is not allowed
  - No one other than the Candidate can be present in the room
  - Desk must be clear of all notes and electronics
- 

## Candidate Conduct Rules During Exam

- Candidate is not allowed to communicate with anyone other than the Proctor during the Exam
- Candidate is not allowed to read the questions out loud, to themselves, during the exam
- Candidate is not allowed to leave their desk or step out of view of the webcam, unless they have been granted specific permission by the Proctor
- Candidate is not allowed to eat, drink (except clear liquids as per rule below), or chew gum
- Candidate is permitted to drink clear liquids from a label-free clear bottle or a clear glass
- Candidate is not allowed to wear any electronic device in their ears, on their face or on their body unless medically necessary

- Candidate must refrain from making excessive and/or repetitive noise
  - Candidate must refrain from covering their mouth and/or face
  - Candidate is not allowed to write or enter input on anything (whether paper, electronic device, etc.) outside of the Exam console screen
  - Candidates must comply with any requests from the Proctor. If Candidate fails to comply, the Exam will be terminated
- 

## Policy on Tools and Resources Allowed during Exam

The following tools and resources are allowed during all Exams as long as they are used by the Candidate to work independently on exam tasks (i.e. not used for 3rd party assistance or research) and are accessed from within the Linux server terminal on which the Exam is delivered (resources that cannot be accessed from within the terminal are not allowed):

- Man pages
- Documents installed by the distribution (i.e. /usr/share and its subdirectories)
- Packages that are part of the distribution (may also be installed by Candidate if not available by default)

Click on your exam title to see the specific resources allowed during your exam:

- [Linux Foundation Certified System Administrator \(LFCS \)](#)
- [Linux Foundation Certified Engineer \(LFCE \)](#)
- [Cloud Foundry Certified Developer \(CFCD\)](#)
- [Certified Kubernetes Administrator \(CKA\)](#)
- [Certified Kubernetes Application Developer \(CKAD\)](#)
- [Certified Kubernetes Security Specialist \(CKS\)](#)
- [Certified Hyperledger Sawtooth Administrator \(CHSA\)](#)
- [Certified Hyperledger Fabric Administrator \(CHFA\)](#)
- [Certified Hyperledger Fabric Developer \(CHFD\)](#)
- [OpenJS Node.js Application Developer \(JSNAD\)](#)
- [OpenJS Node.js Services Developer \(JSNSD\)](#)
- [Certified ONAP Professional \(COP\)](#)

The following resources are forbidden during the Exam:

- Text-based email clients
- Browsing the Internet using installed tools such as Vim and Emacs
- Communications with other Candidates or outside resources
- Use of devices other than the exam desktop
- Notes
- Documentation (\* the documentation installed by the distribution IS permitted)
- Course manuals
- Devices external to computer on which they are taking the exam, including but not limited to: mobile phones, PDAs, wearable computers, smart glasses, smart watches
- Desk must be clear of all notes and electronics

# Taking the Exam

## Launching the Exam

Candidates can click on the "Take Exam" button, located in My Portal, up to 15 minutes prior to the scheduled start time of their Exam, and will be redirected to the Exam Proctoring Partner's site.

Candidates will be prompted to Login to the Exam Proctoring Partner's site, with their LF Account. Once authenticated to PSI, candidate's can select "My Exams" and click the "Launch Exam" Button to open the Exam Console in a new browser tab.

If The Candidate has an issue with the "Take Exam" Button in the Exam in the Exam Preparation Checklist, they can connect directly to

<https://www.examslocal.com/linuxfoundation> and login with their LF Account, select "My Exams" and click the "Launch Exam" Button to open the Exam Console in a new browser tab.

Once in the Exam Console, the Proctor Admission Process will begin.

---

## Reporting Issues with Launching the Exam

If the Launch Exam button is not accessible, the Candidate should contact the Exam Proctoring Partner's Support team, within 15 minutes of the scheduled start time, using one of the following options:

- Click on the "Online- Click here to get help" button - this opens the chat support function
  - Click on the Support Menu item in the top navigation bar to view the support numbers
- 

## Proctor Admission Process

The proctor admission process can take up to 15-20 mins to complete. **The Exam countdown timer does not start until the proctor releases the Exam.**

The Admission process includes the following:

- Share screen, Webcam and microphone
  - Ensure the webcam is capable of being moved as the proctor may ask you to pan your surroundings to check for potential violations of exam policy
- ID Verification and authentication process
  - the candidate must present valid Government-issued photo ID that matches the name listed on the Exam Reservation
  - If the name on the Exam Reservation does not match the name on the candidate's Government Issued Photo ID, the candidate will be instructed to:
    - Logoff the PSI Site
    - Login to "My Portal"  
[\(https://trainingportal.linuxfoundation.org/learn/dashboard\)](https://trainingportal.linuxfoundation.org/learn/dashboard)
    - Click "Verify Again" in the Verify name field of the Exam Prep Checklist and edit their First and Last Name to match their photo ID
    - Log back into [www.examslocal.com/linuxfoundation](http://www.examslocal.com/linuxfoundation) with your LF Account
- Reading and accepting the Exam Rules and terms and conditions of The Linux Foundation [Global Certification and Confidentiality Agreement Document](#).

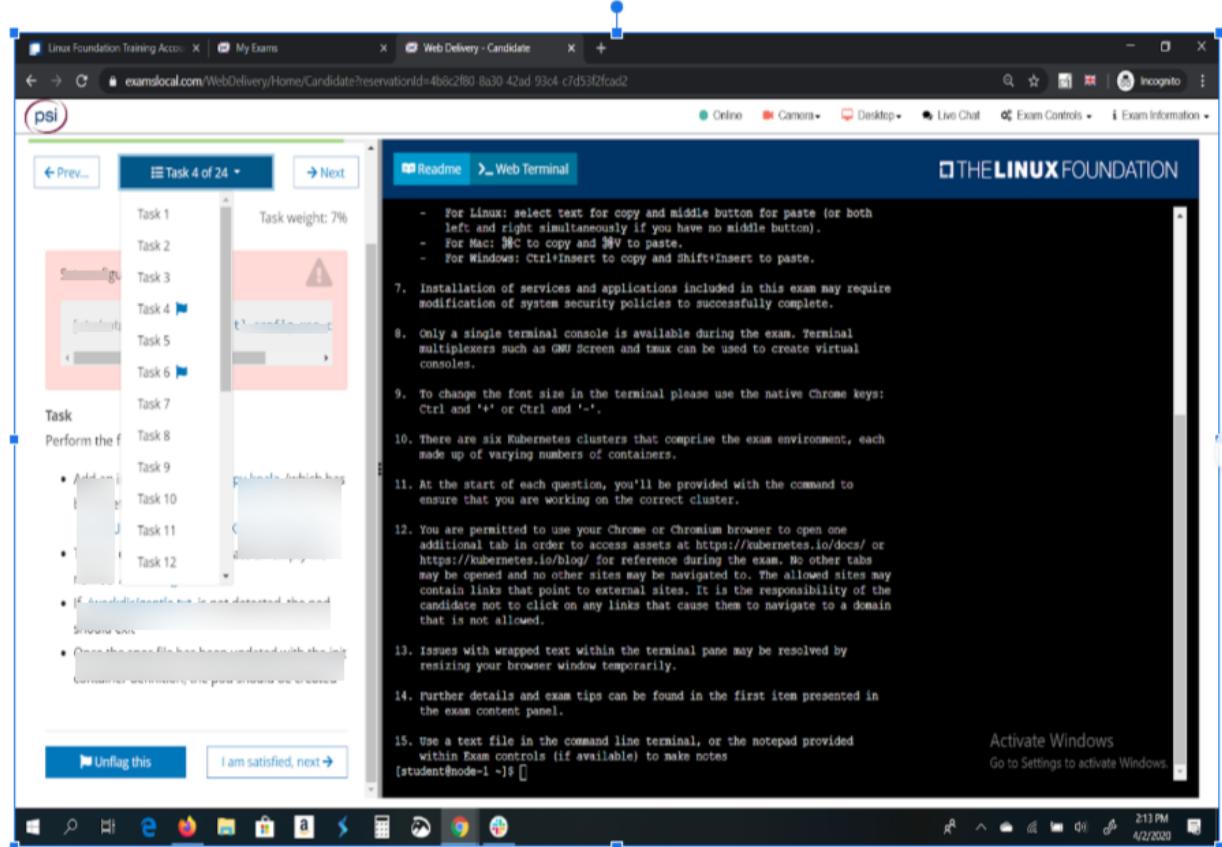
During the admission process, the proctor may ask to review the applications and services running on the candidate's machine to detect Remote Access Software (e.g. LiteManager) which violates the Certification and Confidentiality agreement.

If Remote Access Software is detected and running on your machine, your exam session will be terminated immediately and your exam registration will be cancelled without a refund in accordance with the Exam Misconduct policy

Upon completing the admission process and when the proctor has verified that the Candidate's testing environment and surrounding area meets the testing requirements, the Proctor will release the exam.



# Exam User Interface



## Linux Foundation Certification Exams User Interface

The Exam User Interface for all Certification exams *except JSNAD and JSNSD*, is composed of Three main areas:

- [Exam Console Functions](#)
- [Content Panel](#)
- [Linux Server Terminal](#)

*The JSNAD , JSNSD and COP Exam User Interface is composed of two main areas:*

- [Exam Console Functions](#)
- [Virtual Machine](#)

## Exam Console Functions in Top Menu Bar

The menu bar across the top of the exam console contains the Exam Console Tools.

- To turn on webcam-sharing, click Camera from top menu.
- To turn on screensharing, click Desktop from top menu.
- To ask the proctor a question during the exam, select Live Chat from top menu.
- Clicking Exam Controls from top menu offers the following choices:
  - Show Testing Rules: select this to review the exam rules during an exam.
  - Refresh Exam Window: use to refresh the Linux Server Terminal without reloading the entire web page.
  - Reset Console: use to reset the HTML terminal application and to flush all firewall settings on the candidate's server.
  - Pause Exam: use to request break from proctor. (Note: the exam timer continues to run through even if proctor approves break request.)
  - End Exam: Candidate can use this to indicate to proctor they are ready to end the exam.
  - Notepad: use this to make notes during the exam, e.g. keeping a list of items to revisit. Please note that notes entered here will not be retained or accessible after the exam has ended.

---

## Content Panel

The Content Panel (left pane) contains the exam tasks, describes the point value of a task and displays a timer for the exam.

- Exam tasks instruct you to complete a step, or a series of steps.
- Candidates can navigate between exam tasks by clicking on the Previous or Next button, or they can jump to a specific exam task by selecting the task number from the drop-down list.
- Candidates can flag an exam task by clicking the `Flag this to return` box, to remind them to finish/review the task. The task dropdown list will indicate the task you have flagged. When you have revisited this task, you can click `Unflag`.
- Exam tasks contain text that is formatted as copyable values (e.g. file names, port numbers, etc). The copyable values highlight when a Candidate's cursor hovers over formatted text. Candidates can click on the highlighted value within the Content panel to Copy the value & then Paste it directly into the terminal window.

- Candidates may switch between languages (if available) during the exam by clicking on the `Select Language` drop down list
  - The timer bar is set to run for the duration of the exam. Please note:
    - Requesting a break via the Pause Exam function will not stop the timer.
    - The Proctor keeps the ultimate timer for the exam.
    - The Candidate should check with the Proctor for a true reading of time remaining in the exam if there is any doubt or in cases where the timer has been reset.
- 

## Linux Server Terminal

The Linux Server Terminal (on right) displays the terminal of a Linux Server.

1. Root privileges can be obtained by running '`sudo -i`'.
2. You should avoid rebooting node-1, as the supporting infrastructure will take around 15 minutes to start, and stabilize. You are free to reboot any node other than node-1 at any time.
3. Do not stop or tamper with the certerminal or sshd configuration and process on node-1 as this will END YOUR EXAM SESSION.
4. Do not block incoming ports 8080/tcp, 4505/tcp and 4506/tcp. This includes firewall rules that are found within the distribution's default firewall configuration files as well as interactive firewall commands.
5. Use `Ctrl+Alt+W` instead of `Ctrl+W`.
  - `Ctrl+W` is a keyboard shortcut that will close the current tab in Google Chrome.
6. `Ctrl+C` and `Ctrl+V` are not supported in your exam terminal To copy and paste please use;
  - For Linux: select text for copy and middle button for paste (or both left and right simultaneously if you have no middle button).
  - For Mac: `⌘+C` to copy and `⌘+V` to paste.
  - For Windows: `Ctrl+Insert` to copy and `Shift+Insert` to paste.
7. Installation of services and applications included in this exam may require modification of system security policies to successfully complete.
8. Only a single terminal console is available during the exam. Terminal multiplexers such as GNU Screen and tmux can be used to create virtual consoles.
9. To change the font size in the terminal please use the native Chrome keys: `Ctrl` and `'+'` or `Ctrl` and `'-'`.

10. You should avoid changing the locale of the system during your exam.
  11. You should not manipulate the firewall of node-1, or tamper with any of the running lxd or dnsmasq processes.
- 

## **Virtual Machine (JSNAD and JSNSD Exams ONLY)**

The workstation is CentOS 7 based and configured with all the tools and software needed to complete the tasks. This includes:

- GNOME Desktop Environment Code Editing Software (VSCode, Vim, WebStorm)
  - Node.js version 12 LTS
- 

## **Virtual Machine (COP ONLY)**

A dedicated environment will be provisioned for your assessment, which includes a desktop workstation (VM based on Ubuntu 18.04) and nested virtualized infrastructure to support a limited ONAP Deployment.

In addition to the GUI the following terminal access may be available:

- KubeCTL
- Openstack CLI

## **Guidelines and Tips for Use of the Virtual Machine (JSNAD and JSNSD Exams Only)**

- Clicking “Start Assessment” (in the top right-hand corner of the Assessment Introduction page) will launch the COP, JSNAD or JSNSD Application (the exam)
- JSNAD & JSNSD Exam tasks instruct you to complete a step, or a series of steps, which may be answered with Node.js core API’s or with any Node.js libraries/frameworks of the candidates choosing.

- Instructions for each task, presented in the UI, are also made available in a `readme.md` file in each project folder.
- The terminal provided by the environment is GNOME Terminal, but the Visual Studio Code Terminal or WebStorm may also be used.
- Candidates can navigate between exam tasks by clicking on the “Previous” or “Continue/Next Task” button.
- Candidates can skip an exam task using the “Skip” button, and return to it later, by navigating to any task in the left column.
- Candidates can click on “Assessment Review” to identify tasks that have been:
  - Completed
  - Not Viewed
  - Skipped
- Once all the tasks have been completed and you are ready to end the exam, select “End Exam” from the Exam Controls dropdown, located in the exam console Menu Bar.

## **Guidelines and Tips for Use of the Virtual Machine (COP Exam Only)**

- Clicking “Start Assessment” (in the top right-hand corner of the Assessment Introduction page) will launch the COP Application (the exam)
- COP Exam tasks instruct you to complete a step, or a series of steps
- Candidates can navigate between exam tasks by clicking on the “Previous” or “Continue/Next Task” button.
- Candidates can skip an exam task using the “Skip” button, and return to it later, by navigating to any task in the left column.
- Candidates can click on “Assessment Review” to identify tasks that have been:
  - Completed
  - Not Viewed
  - Skipped
- Once all the tasks have been completed and you are ready to end the exam, select “End Exam” from the Exam Controls dropdown, located in the exam console Menu Bar.

# Language

Exam objectives (i.e. exam tasks) for our LFCS, LFCE, CKA and CKAD are available in English, Simplified Chinese, and Japanese.

A *Chinese-only* version of the [JSNAD](#) and [JSNSD](#) Exam is also available in our certification catalog.

All other exams are available in English Only.

When an exam is launched, the exam objectives (i.e. exam tasks) will default to the preferred language setting detected in the Candidate's browser.

If the preferred language **is not available for that exam** then the exam objectives default to English.

If exam objectives are available in multiple languages, the candidate may switch between available languages during the exam by clicking on the "Language Control Dropdown List" in the Content Panel of the exam console.

The following grid outlines the languages available in our Certification Exams:

Exam Title	English (EN)	Japanese (JP)	Simplified Chinese (ZH)
Linux Foundation Systems Administrator	✓	✓	✓
Linux Foundation Certified Engineer	✓	✓	✓
Certified Kubernetes Administrator	✓	✓	✓
Certified Kubernetes Application Developer	✓	✓	✓
Certified Kubernetes Security Specialist	✓		
Cloud Foundry Certified Developer	✓		

---

Certified Hyperledger Sawtooth Administrator	✓
Certified Hyperledger Fabric Administrator	✓
Certified Hyperledger Fabric Developer	✓
Certified ONAP Professional	✓
OpenJS Node.js Application Developer	✓
OpenJS Node.js Services Developer	✓

---

\*\* Must register for the Chinese-Only version of the [JSNAD](#) and [JSNSD](#) Exam

# Duration of the Exam

The exam duration for LF Exams is outlined below:

Exam Name	Duration (hrs)
LFCS	2
LFCE	2
LFCA	1.5
CKA	2
CKAD	2
CKS	2
CFCD	3
COP	3
CHFA	2
CHFD	2
CHSA	2
JSNAD	2
JSNSD	2

The countdown timer does not start until the proctor has released the exam to the candidate.

As Candidates proceed through the Exam, a timer bar is displayed at the top of the Content Panel, giving an indication of how much time is remaining.

Please note:

- Requesting a break via the Pause Exam function will not stop the timer.
- The Proctor keeps the ultimate timer for the exam.
- The Candidate should check with the Proctor for a true reading of time remaining in the exam if there is any doubt or in cases where the timer has been reset.

# **Policy on Warnings and Exam Terminations**

## **Warnings**

Certain kinds of violations will result in a warning from the Proctor, while certain other violations result in IMMEDIATE TERMINATION OF THE EXAM WITHOUT WARNING.

- If a warning is issued by the Proctor, the Exam will be paused until the Candidate is able to amend or resolve the observed violation.
  - If a Candidate is found to be in violation of the same rule more than twice or is found to be in violation more than four times on any combination of rules, the Exam will be terminated immediately.
- 

## **Exam Terminations**

The following actions result in IMMEDIATE TERMINATION OF THE EXAM WITHOUT WARNING:

- Candidate refuses to comply with a Proctor request
- Candidate is observed to be copying Exam content, whether with software, external device(s), manual transcription, or other means
- Candidate steps out of view of the webcam for extended amount of time without the Proctor's permission
- Someone other than the Candidate is observed to complete or assist with any part of the Exam (e.g. by using Remote Access Software such as LiteManager)
- A discrepancy exists between the input on a Candidate's screen and the Candidate's observed activity

# Exam Misconduct

Candidates engaging in Exam Misconduct, as defined below, will not be allowed to complete the Exam or receive an exam result. Such candidates will also be barred from taking any other LF Certification Exam and if applicable, will have any active LF Certification(s) withdrawn.

Refunds will not be given and rescheduling will not be allowed in the event of early termination of an exam due to misconduct. Misconduct may, at any time, result in application of the sanctions specified in Section 7. You shall adhere to all Program rules and shall not engage in any action to subvert, or attempt to subvert, the examination process (“Exam Misconduct”) including but not limited to:

- Failing to comply with the Exam Rules and Policies as listed in Section 4.2
- Disseminating actual exam content by any means, including, but not limited to, web postings, formal or informal test preparation or discussion groups, chat rooms, reconstruction through memorization, study guides, or any other method, as well as providing exam content or information to any person not expressly authorized by LF to receive such content or information (including but not limited to an LF employee who is not part of the Certification Program staff)
- Copying or otherwise transferring, modifying, making derivative works of, reverse engineering, decompiling, disassembling, or translating any Exam or any part thereof
- Seeking and/or obtaining unauthorized access to examination materials (this includes using recollections of others of materials from previous administration of any Exam, a.k.a. braindump material, and/or any unauthorized publication of Exam questions with or without answers)
- Using falsified or altered certificates, score reports, or other documents or electronic media to misrepresent Certification status
- Allowing another person, or an organization in which you are not actively involved, to use your certification credentials to obtain employment or promotions
- Providing falsified information, documentation or statements as a means of a false identity, false address or solicitation of someone to take a test on another's behalf
- Giving, receiving, or obtaining unauthorized assistance during the examination or attempting to do so
- Making notes of any kind during the Exam, whether on paper or via digital means (other than using the notepad provided within the exam browser tab)

- Possession of non-authorized items during the Exam
- Accepting or providing improper assistance on your Exam or Exams taken by others (e.g. by using Remote Access Software such as LiteManager)
- Removing or attempting to remove Exam material (in any format)
- Intentionally or otherwise repeatedly causing a disturbance of any kind during the Exam
- Tampering with the exam server and its environment or attempting to use it for any function other than taking an LF Exam
- Modifying and/or altering the results and/or score report for this Exam or any other Exam record
- Using computer scripts to register for Exams
- Misconduct as determined by Data Forensics as defined in Section 4.4
- Failing to adhere to any LF or Exam Proctoring Partner policy, procedure, rule, or instruction
- Using profanity, threatening to harm, bully or in any way harass any LF or Exam Proctoring Partner employee or contractor (whether verbally or in writing, including through electronic communications or external web postings)
- Otherwise violating the terms of LF's Certification and Confidentiality Agreement

# Exam Scoring and Notification

Upon completion, exams are scored automatically and a score report will be sent to the candidate via email within 36 hours from the time that the exam was completed.

Results will also be made available on the Portal.

Exams are graded for results. There may be more than one way to perform a task on an Exam and unless otherwise specified, the candidate can pick any available path to perform the task as long as it produces the correct result. The Linux Foundation (LF) and/or the Exam Proctoring Partner will review your exam record for scoring accuracy, for evidence of possible misconduct, and for response patterns that may suggest that your scores do not represent a valid measure of your knowledge or competence as sampled by the examination (measurement error).

LF will use statistical analyses of exam data (“Data Forensics”) to identify patterns indicative of test fraud, including cheating and piracy.

LF reserves the right to invalidate your exam score and certification result if review of your exam record reveals scoring inaccuracies (attributable to LF or the Exam Proctoring Partner) or response patterns indicative of possible misconduct or measurement error. If LF determines that an Exam score is invalid due to issues that are beyond the control of the candidate, the candidate will be advised of options to retake the Exam at no charge.

# Exam Results - Pass

Upon passing an exam and if all other requirements for certification have been met, candidates will be granted the certification relevant to the Exam.

Formal notice of successful certification from The Linux Foundation will be emailed within 3 business days of meeting program requirements.

The email notification(s) will include a notice providing the candidate's Certificate ID number and how to access and download a pdf copy of their certificate, and instructions on accessing additional Certification Marks.

## Exam

The screenshot shows a checklist for exam preparation. It includes items like 'Agree to Global Candidate Agreement' (status: Read Now), 'Verify Name' (status: Done), 'Select Platform' (status: Ubuntu 18.04), 'Schedule an Exam' (status: Exam Code: [REDACTED], Expiration Date: October 26, 2021, Exam Date: June 12, 2020 - 11:00AM America/New\_York), 'Check System Requirements' (status: [UNCHECKED]), 'Get Candidate Handbook' (status: Read Now), 'Read the Important Instructions' (status: Read the Important Instructions), and 'Take Exam' (status: Pass, Certificate ID No.: lf-qq7oic2k, Your Score: 90, Score Needed: 70, View Certificate button). There are also 'Activate V' and 'Go to Setting' buttons at the bottom right.

Exam Preparation Checklist	
<input checked="" type="checkbox"/> Agree to Global Candidate Agreement	<a href="#">Read Now</a>
<input checked="" type="checkbox"/> Verify Name	Status: Done
<input checked="" type="checkbox"/> Select Platform	Platform: Ubuntu 18.04
<input checked="" type="checkbox"/> Schedule an Exam	Exam Code: [REDACTED] Exam Date: June 12, 2020 - 11:00AM America/New_York
<input type="checkbox"/> Check System Requirements	
<input type="checkbox"/> Get Candidate Handbook	<a href="#">Read Now</a>
<input type="checkbox"/> Read the Important Instructions	<a href="#">Read the Important Instructions</a>
<input checked="" type="checkbox"/> Take Exam	Status: Pass Certificate ID No.: lf-qq7oic2k Your Score: 90 Score Needed: 70 <a href="#">View Certificate</a>

## Exam Checklist - Score available and View Certificate

The Exam Preparation checklist in the portal will also display the candidate's achieved score and includes a "View Certificate" option, that the candidate can click to view and/or download their certificate (.pdf file)

# Exam Results - No Pass

If eligible per the Retake Policy, candidates who do not achieve a passing score on their first attempt will be granted a free retake.

Be sure sure to review the Retake Policy in full to understand eligibility and deadlines for the free retake. Instructions will be provided in the Exam Results notification on how candidates can Claim their free retake.

The screenshot shows a checklist for exam preparation. The steps listed are:

- Agree to Global Candidate Agreement (Status: Read Now)
- Verify Name (Status: Done)
- Select Platform (Status: Platform: Ubuntu 18.04)
- Schedule an Exam (Status: Exam Code: [redacted], Exam Date: June 12, 2020 - 12:00PM America/New\_York, Expiration Date: June 12, 2021)
- Check System Requirements (Status: System Requirements Checked)
- Get Candidate Handbook (Status: Read Now)
- Read the Important Instructions (Status: Read the Important Instructions)
- Take Exam (Status: No Pass, Note: You are eligible for a free retake (expires: 12 June 2021), Your Score: 50, Score Needed: 70, Claim Free Retake button)

At the bottom, there are links for "Where's my Free Retake?", "Where's my other Purchase/order?", and buttons for "Activate Win", "Go to Settings", and a dropdown menu.

The Exam Preparation Checklist will display the No-Pass score, and if eligible the candidate can click the "Claim Free Retake" button which will activate a new Checklist and a new exam eligibility.

The candidate will be advised that their current exam data will be stores as Exam History, and they will be taken to the beginning of the exam scheduling process.

If the free retake has been exhausted for this order, and if an additional order is available (if the candidate purchased the certification exam more than once) then they will be prompted to "Claim their next order from this screen.

# **Exam Rescoring Requests**

## **\*\* NOTE\*\***

### **Exam Rescoring is NOT available for the LFCA Exam**

Though we cannot guarantee the availability of rescoring for an exam server, candidates who did not earn a passing score may submit a request for an exam to be rescored, up to 2 days following the date on which the exam was taken. (Please note there is a fee involved, which must be paid via credit card.)

To request a rescore, you may submit [a request to trainingsupport.linuxfoundation.org](mailto:a request to trainingsupport.linuxfoundation.org) within 2 days following the date on which the exam was taken.

If your exam is eligible for a rescore, you will be provided with information on rescore fees and instructions on how to submit payment.

If the rescore results in a change from No Pass to Pass on the exam, the rescore fee will be refunded.

# Retake Policy

For certification exams purchased directly from The Linux Foundation and not marked as SINGLE-ATTEMPT or SINGLE, one (1) free retake per exam purchase will be granted in the event that a passing score is not achieved and Candidate has not otherwise been deemed ineligible for certification or retake.

Unless otherwise indicated in the exam order, the free retake must be completed within 12 months of the date of the original exam purchase.

After the free retake has been exhausted or the deadline to complete the free retake has passed, Candidates may register and pay to take the exam again, with no discount given for such additional retakes.

For purchases made through an Authorized Training Partner (ATP), please contact the ATP regarding eligibility for a free retake

# Repurchasing the Exam

Candidates have the option to repurchase the exam at any time from the [course catalog](#)

Only one exam order will be "active" for each purchased exam.

When the Active purchase has been used (the candidate has taken the exam and passed OR you has taken both the first and second attempt and achieved "no pass") the **Claim Your Next Order** button will be enabled in the exam checklist.

When you click the Claim Your Next Order button, the current exam data will be stored as a history and the candidate a new Exam Preparation Checklist will be displayed in the candidate's portal.

## Exam

The screenshot shows a list of tasks under the heading 'Exam Preparation Checklist'. The tasks are:

- Agree to Global Candidate Agreement (Status: [Read Now](#))
- Verify Name (Status: Done)
- Select Platform (Platform: CentOS 7)
- Schedule an Exam (Exam Code: LFCE, Exam Date: July 06, 2020 - 02:22AM, Expiration Date: April 06, 2021)
- Check System Requirements (Status: System Requirements Checked, [Check Again](#))
- Get Candidate Handbook ([Read Now](#))
- Read the Important Instructions ([Read the Important Instructions](#))
- Take Exam (Status: No Pass, Your Score: 26, Score Needed: 55, [Claim Your Next Order](#))

## Exam Checklist

# Certificates and Certification

Certified Candidates (“Certificants”) receive a Certificate ID number and a certificate indicating the successful completion of the requirements necessary to achieve the title indicated on their certificate.

Certifications expire 36\* months from the date that a certificant successfully passes their certification exam, unless revoked earlier for cause or certificant successfully completes certification renewal requirements.

\* **NOTE:** CKS Certifications expire 24 months from the date that certificant successfully passes their certification exam, unless revoked earlier for cause or certificant successfully completes certification renewal requirements

The primary method for confirming the status of a certification is to use The Linux Foundation’s [Certification Verification Tool](#).

---

## Certificate

The Linux Foundation Exam Certificates lists the following information:

- - Name of the Candidate who obtained the certificate
    - Title of Certification (e.g. Linux Foundation Certified System Administrator)
    - Certificate ID number
    - Achievement Date (i.e. date Exam was passed)
- 

## Certification Expiration

Certifications expire 36\*\* months from the date that the Program Certification requirements are met by a candidate.

**\*\*NOTE THE SPECIFIC EXPIRATION POLICY FOR CKS, LFCS, LFCE AND CFCD CERTIFICATIONS \*\***

## **LFCS**

LFCS Certifications awarded on or after April 10, 2018 (based on LFCS v3 release) will expire 36 months from the date that the program Certification requirements were met by the candidate. All other LFCS Certifications will expire 24 months from the date that the Program Certification Requirements were met.

## **LFCE**

LFCE Certifications awarded on or after June 10, 2018 (based on LFCS v3 release) will expire 36 months from the date the Program Certification requirements were met by the candidate. All other LFCE Certifications will expire 24 months from the date that the Program Certification Requirements were met.

## **CFCD**

CFCD Certifications awarded on or after September 05, 2019 will expire 36 months from the date that the Program certification requirements are met by a candidate, all other CFCD Certifications will expire 24 months from the date that the Program certification requirements are met, unless revoked earlier for cause of Certificant successfully completes Certification renewal

Certificants must meet [renewal requirements](#) prior to the expiration date of their current certification in order to maintain active certification. If certification renewal requirements are not completed before the expiration date, certification will be revoked.

## **CKS**

CKS Certifications will expire 24 months from the date that the Program certification requirements are met, unless revoked earlier for cause of Certificant successfully completes Certification renewal

---

# Certification Renewal Requirements

Certification **Renewal** requirements must be completed prior to the expiration of the Certification.

Candidates may keep their Certification valid by retaking and passing the same exam, prior to the expiration of their certification.

The Certification will become valid for 3 years (2 years for CKS) starting on the date the exam is retaken and passed.

## LFCS Renewal (Additional Option)

LFCS candidates can also renew their certification by passing a higher-level Certification (LFCE).

On the date that a Candidate with an active LFCS Certification achieves LFCE Certification, the expiration of their LFCS Certification will be extended for 3 years so that both their LFCE and LFCS Certifications expire on the same date.

The date on which their LFCS Certification expiration is extended (i.e. renewed) becomes the Renewal Date.

For example, a Certificant holds an active LFCS Certification expiring on August 20, 2019.

The Certificant then achieves LFCE Certification on March 1, 2020.

Their lower-level LFCS Certification will be extended (i.e. renewed) for 3 years effective March 1, 2020 and both their newly achieved LFCE and renewed LFCS Certifications will have the same expiration date of March 1, 2023.

# Digital Badges

The Linux Foundation has partnered with Credly's [Acclaim](#) platform to provide candidates with a digital version of their credentials. Badges will be issued to everyone who passes one of our certification exams and can be used in email signatures or digital resumes, as well as on social media sites such as LinkedIn, Facebook, and Twitter.

Further details of our Certification Badges are [available here](#).

# Certification Verification Tool

The Linux Foundation provides a [verification tool](#) that allows users (e.g. potential employers or clients) to validate the status of an individual's certification. To submit a query on this verification tool, a user must enter the Certificate ID number and the Last Name listed on the certificate of a successfully certified individual. (The Last Name must be entered exactly as listed on the Certificate, including any special characters.) The result for a successfully submitted query will include the full name of certificant, certification title and status (active/inactive), and the date that the certification was achieved.

# Certification Revocation

The Linux Foundation (LF) will revoke Certification if the candidate fails to comply with Certification renewal requirements. In addition, LF may, in its sole discretion, revoke any and all Certifications the candidate may have earned and permanently ban them from earning future Certifications under any of the following circumstances:

- If the candidate uses profanity, threaten to harm, bully or in any way harass any LF or Exam Proctoring Partner employee or contractor (whether verbally or in writing, including through electronic communications or external web postings);
- If the candidate breaches the terms and conditions of [The Linux Foundation Global Certification and Confidentiality Agreement](#);
- If LF determines, in its sole discretion pursuant to the Exam Misconduct and Professional Code of Conduct Violations, that the candidate has undertaken or participated in Exam Misconduct as defined in the Exam Misconduct Policy, or violated the Professional Code of Conduct.
- If you have been convicted of a crime that LF deems, in its sole discretion, in any way harms or affects LF's or the Program's reputation, goodwill or security; or
- If you have lost or settled a civil case in which LF is the plaintiff and the claim arose from any alleged damage to LF, its brand, goodwill or reputation.

# Professional Code of Conduct

Candidates, before and after Certification, shall:

- Perform duties with objectivity, due diligence and professional care.
- Access private information on computer systems only when it is necessary in the course of technical duties. Maintain the privacy and confidentiality of information obtained in the course of your activities unless disclosure is required by legal authority. Such information shall not be used for personal benefit or released to inappropriate parties.
- Provide service in your areas of competence, being honest and forthright about any limitations of your experience and education. Maintain competency in your respective fields and agree to undertake only those activities you can reasonably expect to complete with the necessary skills, knowledge and competence.
- Strive to ensure the necessary integrity, reliability, and availability of the systems for which you are responsible.
- Design and maintain each system in a manner consistent with the purpose of the system to the organization.
- Inform appropriate parties of the results of work performed including the disclosure of all significant facts known to you that, if not disclosed, may distort the reporting of the results.
- Not engage in deceptive financial practices such as bribery, double billing, or other improper financial practices.
- Obey all laws governing your work, unless, in exceptional circumstances, such compliance is inconsistent with the public interest.
- Promote no interest adverse to your employer or client, unless a higher ethical concern is being compromised; in that case, inform the employer or another appropriate authority of the ethical concern.
- Avoid entering into conflicting obligations with one client, such as obligations of confidentiality, availability for work, or otherwise, which conflict with obligations to another client.
- Not unlawfully discriminate or knowingly permit unlawful discrimination on the basis of race, national origin, sex, sexual orientation, religion, age or disability in: (1) hiring, promoting, discharging, or otherwise determining the conditions of employment of any person; or (2) accepting or terminating representation of any client.

- Identify, document, and report significant issues of social concern, of which you are aware, in software or related documents, to the employer or the client.
- Ensure that you have no other professional or contractual obligations that are inconsistent with this Code of Conduct.
- Participate in any investigation of exam irregularities. Refusal to co-operate can be the basis for revocation of certification or cancellation of eligibility.
- Notify LF if they are unable to continue to perform the skills and competencies prior to their certification expiration.

# **Appeals**

In the event that sanctions are imposed pursuant to the Exam Misconduct and Professional Code of Conduct Violations, or your exam score is invalidated pursuant to the Exam Misconduct Policy, you will have thirty (30) calendar days from the date of your notification letter to file an appeal. If you believe you have valid grounds for an appeal, please contact The Linux Foundation (LF) within the appeals period and submit a Certification Appeals Submission Form as instructed in the notification letter. Incomplete submissions will not be considered nor will requests be received after the thirty (30) calendar day period.

If The Linux Foundation determines that a request for appeal is filed within the allowable time, the submission follows required guidelines for consideration and the original sanction and invalidation decision is upheld by LF, such appeal and the information submitted by you will be forwarded to the LF Certifications Appeals Committee for consideration. You may expect to receive a written response from LF within approximately ninety (90) calendar days after the Appeals Committee meets. Decisions rendered by the Appeals Committee are final.

---

## **Appeals Decision**

You may expect to receive a written response from The Linux Foundation within ninety (90) calendar days after the Appeals Committee meets. Decisions rendered by the Appeals Committee are final.

---

## **Copyright**

All exam questions are the property of The Linux Foundation and are protected by copyright. Most national laws provide severe civil and criminal penalties for the unauthorized reproduction, distribution, or exhibition of copyrighted materials.

# Linux Foundation Certification Exams: Quick Guide to Register-Schedule-Take Exam

This is a quick guide outlining the process to Register - Schedule - Take a Linux Foundation Certification Exam.

Please refer to the [Linux Foundation Certification Exams: Candidate Handbook](#) for more in depth information on our examination process, including key details such as:

- System Requirements
- Identification and Authentication Policy
- Exam Rules and Policies
- Exam Interface information
- Scoring and Notification process

# Exam Registration - Using a Redemption or Registration Code

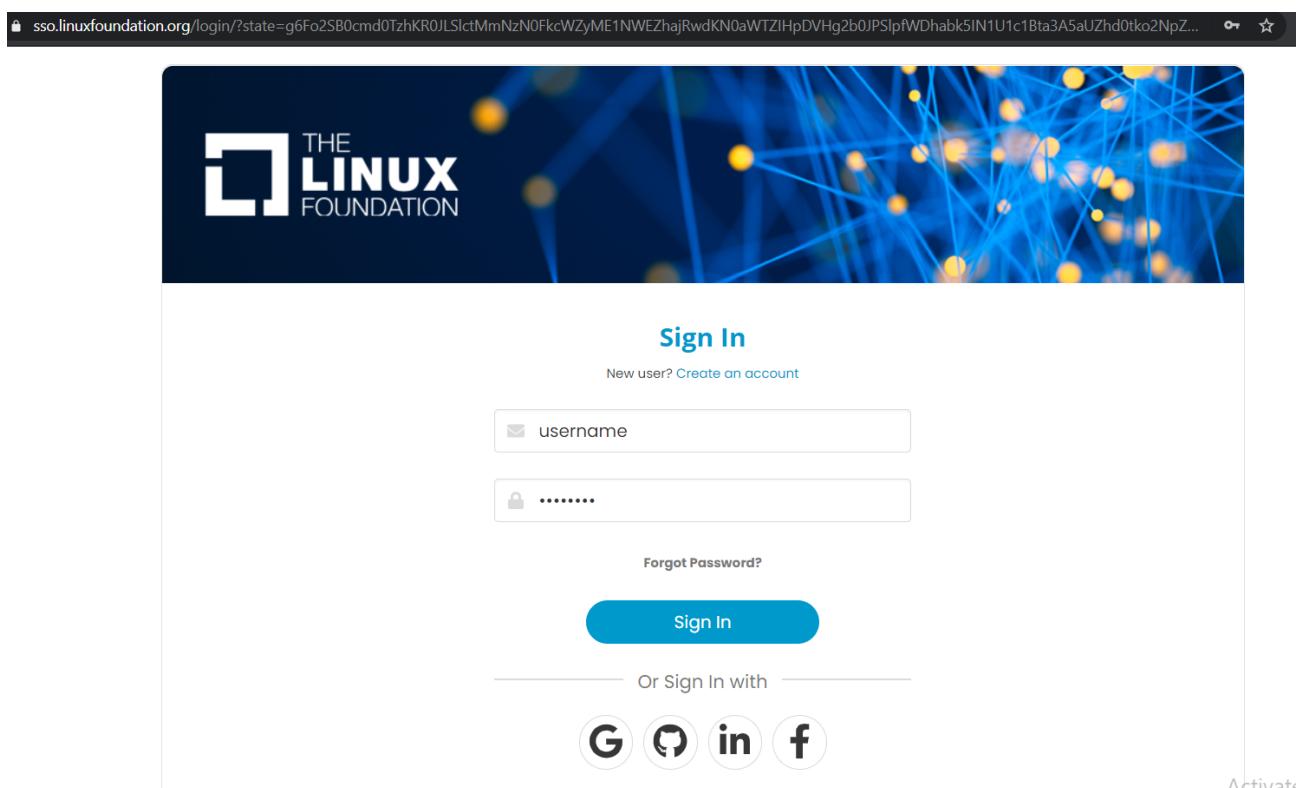
Registering for an exam gives the candidate an eligibility to *schedule* and then *take* the exam.

Registering for an exam is *not the same* as "Scheduling" an exam.

When a candidate *registers* for an exam they will have 12 months to *schedule* and *take* the exam.

That means they must schedule an exam reservation date to occur within 12 months of purchase.

After 12 months, the exam registration expires and the candidate will no longer be eligible to schedule or sit for the exam.



If a candidate has a **Registration or Redemption Code**, they will connect to [The Linux Foundation LMS](#) where they should

- Sign in with an existing LF Login and Password or
- Create a new LF Login by providing a Username, First/Last name and Email address.

\*\* If you are creating a new LF Login, you will receive an email requesting that you "Verify your Email" in order to gain access to your new purchase.

The screenshot shows the top navigation bar of the Linux Foundation Training website. It includes links for 'Apply Registration Code', 'Purchase History', 'Exam History', 'My Dashboard', and 'Sign Out'. An arrow points to the 'Apply Registration Code' link.

### Enter Registration Code

This screenshot shows the 'Enter Registration Code' form. It features a yellow input field labeled 'Enter Code Here' and a blue 'Validate' button. Below the input field is a link '+ Add Another Code'. At the bottom, there is a checkbox followed by text: 'I agree to the [The Linux Foundation Terms & Conditions](#) and the [Thought Industries Terms & Conditions](#)'. A large blue 'Redeem' button is at the bottom right. An arrow points from the left towards the 'Validate' button.

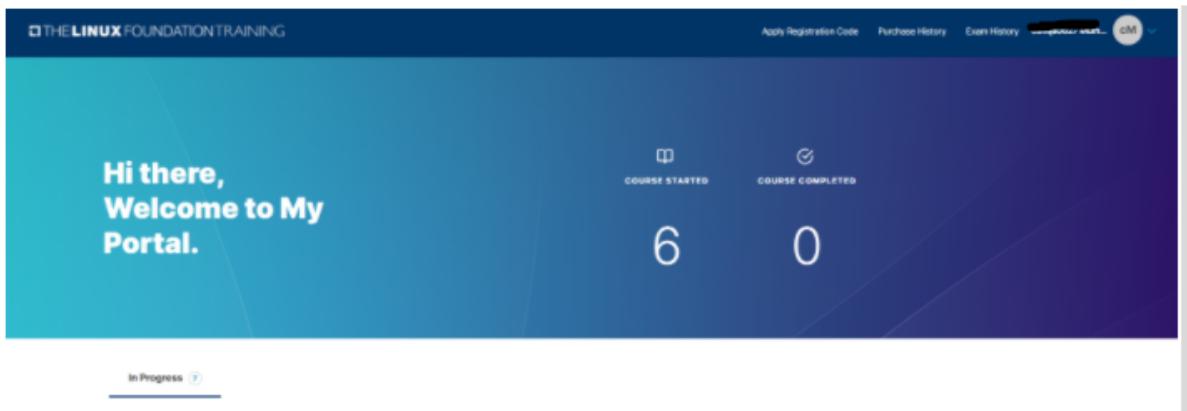
Once logged in, the candidate will click on "Apply Registration Code" in the top Menu Bar. They will enter the Registration or Redemption Code in the field shown, and click on "Validate".

The screenshot shows the top navigation bar of the Linux Foundation Training website. It includes links for 'Apply Registration Code', 'Purchase History', 'Exam History', 'My Dashboard', and 'Sign Out'. An arrow points to the 'Apply Registration Code' link.

### Enter Registration Code

This screenshot shows the 'Enter Registration Code' form after validation. A green banner at the top says 'Congrats, your code has been validated!'. The input field now shows a blacked-out code, and the 'Validate' button is now blue with the text 'Validated!'. Below the input field is a link '+ Add Another Code'. At the bottom, there is a checked checkbox followed by text: 'I agree to the [The Linux Foundation Terms & Conditions](#) and the [Thought Industries Terms & Conditions](#)'. A large blue 'Redeem' button is at the bottom right. An arrow points from the left towards the 'Validated!' button.

When the code has been verified, the candidate must click to agree to [The Linux Foundation Terms and Conditions](#) and the Thought Industry Terms and Conditions, and then click on "Redeem" to complete the registration process.



The candidate will be automatically redirected to "My Portal" where their recent purchase will be displayed in the "In Progress" Tab.

The candidate can click on "Start Certification" to view the Exam Preparation Checklist Items which need to be completed in order to *Schedule* the exam with PSI.

The candidate will also receive an email which includes confirmation of their registration for the Exam (valid for 12 months) and a list of things to consider when selecting an exam date, such as:

- Exam reservations require a 24-hour lead time, meaning the earliest available time-slot will always be the next day.
- Proctoring time slots are made available for all timezones and all days of the week, including weekends, and scheduling is subject to availability.
- The scheduling calendar shows availability for 60 days following the current date, therefore you'll need to wait until you're within 60 days of your desired date before you can schedule your exam.
- Exam reservations may be rescheduled or cancelled up to 24 hours before the start time of your exam. If less than 24 hours remain before your exam start time, you must sit the exam as scheduled or forfeit the attempt. The exam proctoring partner's site may not prevent you from accessing **all dates available on their scheduling calendar**, including ones falling after your exam eligibility expiration date.

# Exam Registration - using a Coupon Code

Registering for an exam gives the candidate an eligibility to *schedule* and then *take* the exam.

Registering for an exam is not the same as "Scheduling" an exam.

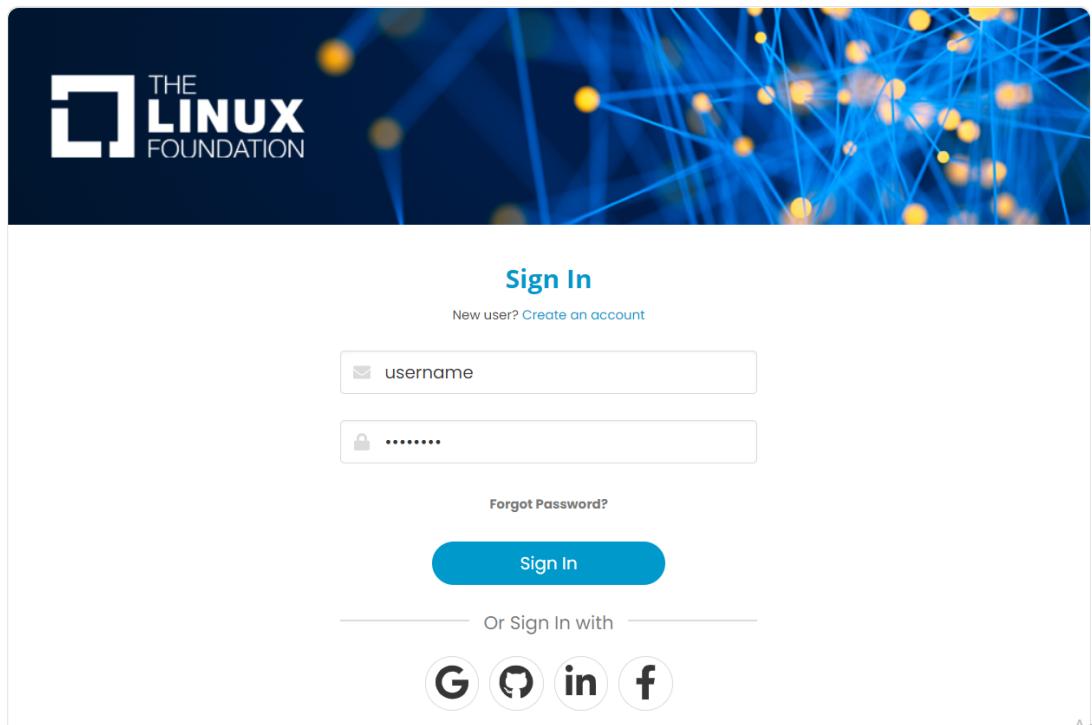
When the candidate *registers* for an exam they will have 12 months to *schedule* and *take* the exam.

That means they must schedule an exam reservation date to occur within 12 months of purchase.

After 12 months, the exam registration expires and the candidate will no longer be eligible to schedule or sit for the exam.

The screenshot shows the Linux Foundation Training website. At the top, there's a dark header bar with the "THE LINUX FOUNDATION TRAINING" logo on the left and navigation links for "Training", "Certification", "Resources", "About Us", "My Portal", "Linux Foundation", and social media icons for Twitter and Facebook. Below the header, the main content area features a large orange button labeled "REGISTER" with an arrow pointing to it from the right. To the left of the button is a blue circular icon with the text "CERTIFIED kubernetes ADMINISTRATOR". To the right of the button is the price "\$300". Below the button, there's a link "100% Money Back Guarantee" and two smaller links: "GET A QUOTE >" and "BUY AS A GIFT >". The central text on the page reads: "Certified Kubernetes Administrator" and "The Certified Kubernetes Administrator (CKA) program provides assurance that CKAs have the skills, knowledge, and competency to perform the responsibilities of Kubernetes administrators."

If a candidate has a **Coupon Code**, they will go to [The Certification Catalog](#), select the Certification Exam they wish to purchase and click the "Register" button.



Sign in with existing LF Login OR create a new LF Login Account

Candidates will be redirected to The Linux Foundation LMS where they should

(a) Sign in with an existing LF Login and Password, and proceed to the secure checkout to

complete the transaction or

(b) Create a new LF Login by providing a Username, First/Last name and Email address.

\*\* If you are creating a new LF Login, you will receive an email requesting that your "Verify your Email" in order to gain access to your new purchase.

This image shows a screenshot of a secure checkout page. At the top, there is a dark header bar with the "THE LINUX FOUNDATION TRAINING" logo on the left and a "Secure Checkout" link on the right. The main content area has a white background. It displays a course item: "Certified Kubernetes Administrator (CKA)" with a price of "\$300.00" and a "Remove" link. Below this, there is a "Coupon Code" input field with an "Apply" button next to it. A horizontal line separates this from the total summary. The summary shows "Total: \$300.00". At the bottom of the page is a blue "Enter Payment Information" button.

Once they are logged in they can enter a Coupon Code in the secure checkout page, and click on "Apply" to bring the total cost down to \$0.

Certified Kubernetes Administrator (CKA) Free

Coupon Code:

This purchase is free!

I agree to the [The Linux Foundation Terms & Conditions](#) and the [Thought Industries Terms & Conditions](#)

**Place Your Order** 

Powered by **stripe**

To complete the checkout process, the candidate must click on "Enter Payment Information" and then click to agree to [The Linux Foundation Terms and Conditions](#) and the Thought Industry Terms and Conditions.

The candidate should click on "Place Your Order" to complete the registration process.



Thank you for your purchase!  
Below is a confirmation of your order.

[REDACTED]

To view the next steps for scheduling and taking your exam, please click on "View Your Portal".  
You can also download and print a receipt from the "Purchase History" link in Your Portal.

Thank you,  
The Linux Foundation Certification Team

[View Your Portal](#)

[Certification Exam Terms of Service](#)  
[Linux Foundation Global Certification and Confidentiality Agreement](#)

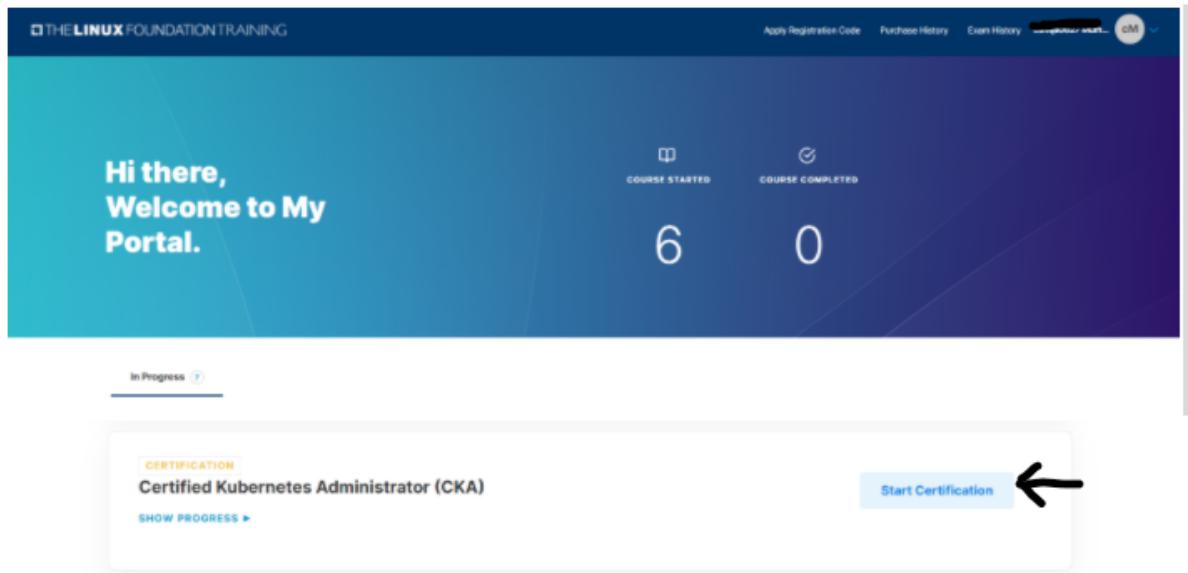
Total: \$0.00

The candidate will be presented with a screen confirming their order and they can click on "View Your Portal" to be redirected to "My Portal" where their recent purchase will be displayed in the "In Progress" Tab.

The candidate will also receive an email which includes confirmation of their exam registration (valid for 12 months) and a list of things to consider when selecting an exam date, such as:

- Exam reservations require a 24-hour lead time, meaning the earliest available time-slot will always be the next day.
- Proctoring time slots are made available for all timezones and all days of the week, including weekends, and scheduling is subject to availability.
- The scheduling calendar shows availability for 60 days following the current date, therefore you'll need to wait until you're within 60 days of your desired date before you can schedule your exam.

- Exam reservations may be rescheduled or cancelled up to 24 hours before the start time of your exam. If less than 24 hours remain before your exam start time, you must sit the exam as scheduled or forfeit the attempt. The exam proctoring partner's site may not prevent you from accessing **all dates available on their scheduling calendar**, including ones falling after your exam eligibility expiration date.



The candidate can click on "Start Certification" to view the Exam Preparation Checklist Items which need to be completed in order to *Schedule* the exam with PSI.

# Schedule an Exam

The candidate should login to the [Linux Foundation LMS](#), to view "My Portal".

Click on the "In Progress" tab to view the certification exams or courses that are active in your account.

The screenshot shows the "My Portal" dashboard. At the top left, it says "Hi there, Welcome to My Portal." On the right, there are two counts: "1 COURSE STARTED" and "0 COURSE COMPLETED". Below this, a banner features the text "Invest in Your Open Source Skills" and "Hiring open source talent is a priority for over 80% of hiring managers. It's time to build your Linux and open source expertise." A blue bar at the bottom contains the text "In Progress" with a small info icon, "CERTIFICATION Linux Foundation Certified Engineer (LFCE)", "SHOW PROGRESS >", "Resume", and a back arrow icon.

My Portal (Viewing "in Progress" tab)

If this is the first time the candidate is accessing their purchase, the button will be labeled "Start Certification", otherwise the button will be labeled "Resume".

Click on the Start Certification (or Resume) button to view the Exam Preparation Checklist Items.

## Exam Preparation Checklist

<input type="checkbox"/> Agree to Global Candidate Agreement	<a href="#">Read Now</a>	<a href="#">Agree to Global Candidate Agreement</a>	<a href="#">?</a>
<input type="checkbox"/> Verify Name	Status: Pending	<a href="#">Verify Now</a>	<a href="#">?</a>
<input type="checkbox"/> Select Platform	Platform: <a href="#">Select Platform</a> ▾	<a href="#">Confirm</a>	<a href="#">?</a>
<input type="checkbox"/> Schedule an Exam	Exam Code: LFCS Exam Date: <a href="#">Schedule</a>	Expiration Date: June 18, 2021 <small>The following items are required to be checked in order to proceed with scheduling your exam: Agree to Global Candidate Agreement, Select a Platform, Verify your name</small>	<a href="#">?</a>
<input type="checkbox"/> Check System Requirements	<a href="#">Check Now</a>		<a href="#">?</a>
<input type="checkbox"/> Get Candidate Handbook	<a href="#">Read Now</a>		<a href="#">?</a>
<input type="checkbox"/> Read the Important Instructions	<a href="#">Read the Important Instructions</a>		<a href="#">?</a>
<input type="checkbox"/> Take Exam	<small>Pending this section will be available once you have completed all the steps above</small>		
Where's my Free Retake? <a href="#">?</a>			

## Exam Preparation Checklist

Checklist Item	Action Required
Agree to Global Candidate Agreement	Candidates must click on the "Agree to Global Candidate Agreement" to indicate they agree to the "Linux Foundation Global Certification and Candidate Agreement" (available for review by clicking on the "Read Now" button).
Verify Name	Candidates must click on "Verify Now" to confirm that the First and Last name displayed in this field matches the Government-Issued Photo ID that they will present to the Exam Proctor, at the time of their exam, to verify their identity. <ul style="list-style-type: none"><li>• Click in the field to edit the First or Last name displayed.</li><li>• Click "Accept" to confirm.</li></ul>
Select Platform	The candidate's exam will be provisioned on the Platform displayed. To select a different platform, <i>and if this is an available option</i> , click on the Platform drop down list and select a preferred platform. Click "Confirm" when done.

---

	<p>The <i>Schedule</i> button will become available, approximately 30 mins AFTER the candidate has completed the first 3 checklist items.</p>
Schedule an Exam	<p>Clicking on "Schedule" will redirect the candidate to our scheduling partner's site (PSI).</p> <p>Candidates will login to the PSI site with their LFID, and search for their exam by exam code (e.g. LFCS, CKA), Exam Title or Sponsor Name (The Linux Foundation).</p>
	<p>Candidates will select from available dates and times for an exam reservation.</p>
	<p>The Candidate must select a date and time that falls before the expiration date of their exam.</p>
Check System Requirements	<p>The Candidate must check that the system they will use to take the exam meets the minimum requirements. Clicking on the "Check Now" button will direct the Candidate to a Compatibility Check Tool.</p> <p>Candidates should select "Linux Foundation" as the sponsor, and select their exam code (e.g. LFCS, CKA) and click go to run the Compatibility Check.</p> <p>Candidates should review the results of the check.</p>
<p><b>If Prompted, You must install the PSI Google Chrome Extension</b></p>	
Get Candidate Handbook	<p>Candidates should click on the "Read Now" button to familiarize themselves with the Candidate Handbook prior to taking the exam.</p>
Take Exam	<p><b>Candidates must complete all checklist items before their scheduled Exam time</b></p> <p>The "Take Exam" button will become available 15 minutes prior to the scheduled exam time.</p> <p>Clicking on "Take Exam" will redirect candidates to the proctoring partner's site, where they will login with their LFID and launch the exam.</p>

---

The "Schedule" Button will become active, and the Candidate will be able to schedule an exam with our proctoring partner (PSI), only after they complete the first 3 checklist items:

- Agree to Global Candidate Agreement
- Verify Name
- Select Platform

The screenshot shows a checklist interface with the following items:

- Agree to Global Candidate Agreement [Read Now](#) [?](#)
- Verify Name Status: Done [Verify Again](#) [?](#)
- Select Platform Platform: CentOS 7 [Confirm](#) [?](#)
- Schedule an Exam Exam Code: LFCS Expiration Date: June 23, 2021 [?](#)  
Exam Date: [Schedule](#)
- Check System Requirements [Check Now](#) [?](#)
- Get Candidate Handbook [Read Now](#) [?](#)
- Read the Important Instructions [Read the Important Instructions](#) [?](#)
- Take Exam Pending this section will be available once you have completed all the steps above

At the bottom left, there is a link: [Where's my Free Retake? \[?\]\(#\)](#)

Candidates will click the "Schedule" button to be directed to the [Exam Proctoring Partner's scheduling site](#). Candidates will login, using their LF Account and they can search for their exam eligibility by:

- Exam title (e.g. Linux Foundation Systems Administrator)
- Exam code (e.g. LFCS, CKA)
- Sponsor Name (The Linux Foundation)

Candidates will then be prompted to select their preferred date and the time zone in which they will be taking the exam.

**Exams require a 24-hour lead time to allow for the preparation of the virtual machines**, so the earliest possible reservation date will be the following day. Additionally, the latest possible date presented in the scheduling calendar is 60 days out.

# Taking an Exam

The candidate should login to the [Linux Foundation LMS](#), to view "My Portal".

The candidate should click on Resume, to go to the Exam Preparation Checklist.

The screenshot shows a checklist for exam preparation. The steps listed are:

- Agree to Global Candidate Agreement (Status: Read Now)
- Verify Name (Status: Done, Verify Again button)
- Select Platform (Platform: Ubuntu 18.04)
- Schedule an Exam (Exam Code: LFCE, Exam Date: June 02, 2020 - 01:00PM America/Denver, Expiration Date: May 29, 2021)
- Check System Requirements (Status: System Requirements Checked, Check Again button)
- Get Candidate Handbook (Read Now)
- Read the Important Instructions (Read the Important Instructions)
- Take Exam (Status: Pending, Take Exam button, Exam Date: June 02, 2020 - 01:00PM)

The "Take Exam" button will become active, up to 15 minutes prior to the scheduled start time of the Exam. Clicking on "Take Exam" will redirect the candidate to the Exam Proctoring Partner's site (PSI).

If The Candidate has an issue with the "Take Exam" Button in the Exam in the Exam Preparation Checklist, they can connect directly to

<https://www.examslocal.com/linuxfoundation> and login with their LF Login, select "My Exams" and click the "Launch Exam" Button to open the Exam Console in a new browser tab.

Candidates will be prompted to Login to the Exam Proctoring Partner's site, with their LF Login and password. Once authenticated to PSI, candidate's can select "My Exams" and click the "Launch Exam" Button to open the Exam Console in a new browser tab.

Once in the Exam Console, the Proctor Admission Process will begin.

# **Linux Foundation Certified IT Associate (LFCA) Handbook**

## **About The Linux Foundation Certification Program**

The Linux Foundation is a non-profit consortium dedicated to fostering the growth of Linux. Founded in 2007, The Linux Foundation sponsors the work of Linux creator Linus Torvalds and is supported by leading Linux and open source companies and developers from around the world.

The Linux Foundation works closely with open source project communities to deliver relevant, respected, hands-on certifications to technology professionals around the world.

The Linux Foundation is unique in that we don't just provide the certifications for today's most in-demand technologies; our involvement goes far beyond that. We host the projects developing these technologies and provide resources and staffing to help keep these development communities healthy and thriving. So when it comes right down to it, no one is closer to these technologies than The Linux Foundation.

# Candidate Requirements

Linux Foundation Certification Exams are delivered online and are closely monitored by a proctor during the exam session via streaming audio, video and screensharing feeds. The screensharing feed allows proctors to view candidates' desktops (including all monitors). The audio, video, and screen sharing feeds will be stored for a limited period of time in the event that there is a subsequent need for review.

---

## System Requirements

Candidates must provide their own computer with:

- Current version of Chrome or Chromium
- you don't need to install a virtual machine, use a client machine, or anything beyond a Chrome or Chromium browser
- Make sure you have third party cookies turned on for the duration of the exam.
- Reliable internet access
  - Ensure others on the same internet connection are not performing activities that use excessive bandwidth (i.e. holding conference calls, streaming content, gaming, etc.)
  - A wired connection is often more stable and robust than a wireless connection
  - Turn off bandwidth-intensive services (e.g. file sync, dropbox, BitTorrent)
- Microphone
  - Please check to make sure it is working before you start your exam session.
- Webcam
  - Ensure the webcam is capable of being moved as you will have to pan your surroundings to check for potential violations of exam policy.
  - If you will be testing from an employer-provide ISP or will use an employer provided machine, please ensure that streaming will be allowed using WebRTC.

## Hardware Compatibility Check

Candidates should run the [Online Proctoring System Check](#) provided by the Exam Proctoring Partner to ensure their machine meets the technical requirements for taking a

proctored exam

---

## LF Account

Candidate should have their own LF account. For more details on how to create LF account, please refer to [Creating LF Account](#).

---

## Testing Environment Requirements

Below are the expectations for an acceptable testing location::

- Clutter-free work area
  - No objects such as paper, writing implements, electronic devices, or other objects on top of surface
  - No objects such as paper, trash bins, or other objects below the testing surface
- Clear walls
  - No paper/print outs hanging on walls
  - Paintings and other wall décor is acceptable
  - Candidates will be asked to remove non-décor items prior to the exam being released
- Lighting
  - Space must be well lit so that proctor is able to see candidate's face, hands, and surrounding work area
  - No bright lights or windows behind the candidate
- Other
  - Candidate must remain within the camera frame during the examination
  - Space must be private where there is no excessive noise. Public spaces such as coffee shops, stores, open office environments, etc. are not allowed.

## Co Located Exams

If multiple Candidates are taking an exam at the same time in one location, then at least four feet (1.2 meters) of empty space on all sides must be enforced or privacy partitions must be installed.

---

## Certification and Confidentiality Agreement

Candidates must accept the terms and conditions of the Linux Foundation Global Certification and Confidentiality Agreement **during the registration process and again prior to testing.**

The agreement is located at <https://docs.linuxfoundation.org/tc-docs/certification/lfc-cert-agreement>

This is a legally-binding agreement that applies to all exams.

Acceptance and adherence to this agreement is required in order to be exposed to the exam and to be officially certified.

Failure to accept the terms of this agreement will result in a terminated exam and forfeiture of the entire exam fee.

# Exam Registration

Registering for an exam gives the candidate an eligibility to *schedule* and then *take* the exam. Registering for an exam is not the same as "Scheduling" an exam. When the candidate *registers* for an exam they will have 12 months to *schedule* and *take* the exam. That means they must schedule an exam reservation date to occur within 12 months of purchase. After 12 months, the exam registration expires and the candidate will no longer be eligible to schedule or sit for the exam.

---

## Exam Fees & Payment

The cost per Exam is \$300 USD (\$200 for the LFCA Exam).

Only credit card payments can be used for payment and all major credit cards are accepted.

Volume discounts are available for companies with multiple candidates. Please click on the "Get a Quote" link on our certification product page(s).

---

## Register for an Exam

To register for an exam the candidate will go to [The Certification Catalog](#), select the Certification Exam they wish to purchase and click the "Register" button.

Candidates will be redirected to The Linux Foundation LMS where they can

- (a) Sign in with an existing LF Account and proceed to the secure checkout to complete the transaction or
- (b) Create a new LF Account by providing a Username, First/Last name and Email address, and proceed to the secure checkout to complete the transaction.

A request to "Verify your Email" will be sent to the email address provided when creating a new LF Account. When the candidate has completed their purchase, they must follow the instructions in the email to "Verify Email" in order to gain access to their Certification Exam.

## **Secure Checkout**

To complete the checkout process, candidates will click "Enter Payment Information" and enter their Credit Card information. Prior to completing their order, candidates will be prompted to read and accept [The Linux Foundation Terms and Conditions](#).

## **Returning Customers**

If the candidate is a returning customer and a credit card has been saved to their account, the system will display the last 4 digits of the credit card on file, and advise that this card will be charged.

If the candidate wants to use a different credit card to complete the purchase, they must:

1. login to [My Portal](#) and click on "Account" (click the down arrow beside their profile name to see the link to your "Account" )
2. Click "Update Credit Card Info" and enter the details of their credit card
3. Click "Save Credit Card" to update the Credit Card details on file.

## **Purchase History / Receipt for your purchase**

Candidates can login to [My Portal](#) and click on the Purchase History option to view all their transactions and print a receipt.

If candidates need to print a receipt for purchases completed **BEFORE** June 20, 2020, they can:

- login to [identity.linuxfoundation.org](https://identity.linuxfoundation.org) with your LFID
- Click on the "Orders" tab to view a list of purchases completed
- Click on the order you wish to use and click on the "Printable Invoice" Tab

---

## **How to Purchase an Exam Eligibility as a Gift (Purchase for someone else)**

To make a purchase on behalf of someone else, select the Certification Exam Product from our [Certification Catalog](#) and click on the "Buy as a Gift" option.

You will be prompted to enter the recipient's First and Last Name, and their Email Address. Clicking on "Enter Payment Information" will redirect you to the Secure Checkout page to complete your order.

The recipient of the "Gift" will receive an email with instructions on how to Redeem a Code provided for the Certification Exam purchased on their behalf.

# Candidate Identification & Authentication

Candidates are required to provide a non-expired Primary ID that contains Candidate's photograph, signature and full name (see acceptable forms of ID in the table below).

The name on your Primary ID **must exactly match** [the verified name](#) on your exam checklist.

If the Candidate's full name on their Primary ID contains non-latin characters, then the Candidate must ALSO provide a non-expired Secondary ID containing their full name in Latin Characters and signature, OR a notarized English translation of their Primary ID along with the non-latin character Primary ID

Primary ID (non-expired and including photograph and signature)	Secondary ID (non-expired and including signature with Candidate name in Latin characters)
Passport	Debit (ATM) Card
Government-issued driver's license/permit	Credit Card
Government-Issued local language ID (with photo and signature)	Health Insurance Card
National Identity card	U.S. Social Security Card
State or province-issued identity card	Employee ID Card
住民基本台帳 (Basic resident register with Photo) or マイナンバーカード (My number card)	Student ID Card
	Japanese Health Insurance Card

## Additional Allowances:

- Some government issued ID such as a passport, driver's license, military ID or state/country card may be a biometric type and may or may not contain a signature. In these cases Primary ID will be accepted without a signature on condition that you also present a Secondary ID which does contain your signature (e.g. bank, credit or debit card)

- For candidates testing in Japan, a Driver's License (with name and recent recognizable photo) is acceptable as a primary ID as long as it is accompanied with a Japanese health insurance card (健康保険証). In Japan, the Japanese health insurance card (健康保険証) is an acceptable form of secondary ID.
- Minors, between the age of 16-18, are permitted to take an online proctored exam with PSI, provided they complete the following requirements:
  - A Parent/Guardian must complete the [Parental Release for Testing of Minors](#) form, and submit it to [trainingsupport.linuxfoundation.org](http://trainingsupport.linuxfoundation.org), at least 2 weeks prior to the scheduled date of the exam
  - At check in, the minor candidate must present a valid student ID as a form of identification
  - During the PSI check-in process, the candidate's guardian must also present a valid ID and must provide verbal consent during the PSI check-in process.

---

## Sanctioned Countries

Exams may be administered to citizens of a sanctioned country listed below PROVIDED the citizens are tested OUTSIDE the sanctioned country and their exam registration and current ID show an address OUTSIDE the sanctioned country.

- Cuba
- Iran
- Syria
- Sudan
- North Korea
- Crimea Region of Ukraine

If you need additional help, please login to [trainingsupport.linuxfoundation.org](http://trainingsupport.linuxfoundation.org) and use the search bar to find an answer to your question, or select your request type from the categories provided.

# Exam Refund Policy

You may request a refund of exam registration fees if both of the following are true:

- (a) Your exam registration purchase was less than three (3) business days ago AND
- (b) You have not yet scheduled an exam reservation

If you are eligible for a refund (per the Exam Refund Policy), please login with your LF Account to <https://trainingsupport.linuxfoundation.org> and select your request type from the categories provided.

# My Portal

Candidates can access My Portal at any time by going to <https://trainingportal.linuxfoundation.org/learn/dashboard> or by clicking on the My Portal Menu item from <https://training.linuxfoundation.org/>.

Candidate can login into My Portal when they have the LF account. On how to create LF account, please refer [Creating LF Account](#).

-  Candidates can use latest version of Chrome, Firefox, and Microsoft browsers to access My Portal.

When a new browser version is released, we support the latest version and we stop supporting the third most recent version of such browser.

Once a candidate has logged into My Portal, they will be able to view the status of their Certification Exams and their courses.

The main page of the Portal also includes a link to:

- View your purchase history (for orders completed after June 20, 2020)  
The purchase history section reflects only paid transactions.  
Products which are \$0 or paid for using 100% prepaid codes are not displayed here
- View your exam results
- Update your account information (e.g. Credit Card on file)
- Manage your profile

The screenshot shows the 'My Portal' section of the Linux Foundation Training website. At the top, there's a dark header bar with the 'THE LINUX FOUNDATION TRAINING' logo, 'Apply Registration Code', 'Purchase History', 'Exam History', and a user profile icon. Below this, a teal banner on the left says 'Hi there, Welcome to My Portal.' On the right, it displays 'COURSE STARTED' (1) and 'COURSE COMPLETED' (0). A red arrow points from the text 'View your purchases' at the top right towards the 'Purchase History' link in the header.

In the center, under the 'In Progress' tab, there are two items:

- CERTIFICATION** Technical Services Certification A (TSCA)  
SHOW PROGRESS ▶ Click to see your exam checklist
- E-LEARNING** Essentials of Linux System Administration (LFS201)  
SHOW PROGRESS ▶ Start e-Learning

A red arrow points from the text 'Courses and Certification Exams now on the same page' to the 'TSCA' item. Another red arrow points from the 'Resume' button to the 'Start e-Learning' button.

Unused Certification Registrations (eligibilities) or Certifications in progress, will be shown in the "In Progress" tab of the Portal. If this is your first visit to "My Portal" the "Start Certification" button will be displayed beside your Certification Exam name, after that, the button will display "Resume" (as shown above).

Click on the button displayed to get to your exam checklist.

# My Profile

Candidates can access My Profile page at any time by going to <https://trainingportal.linuxfoundation.org/learn/dashboard>.

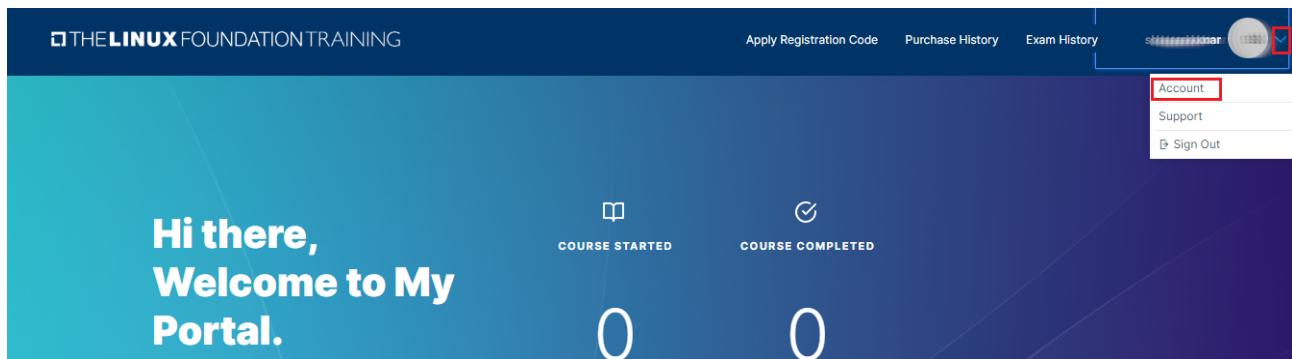
Once a candidate has logged into My Portal, they will be able to view My Profile.

My Profile page allows candidates to:

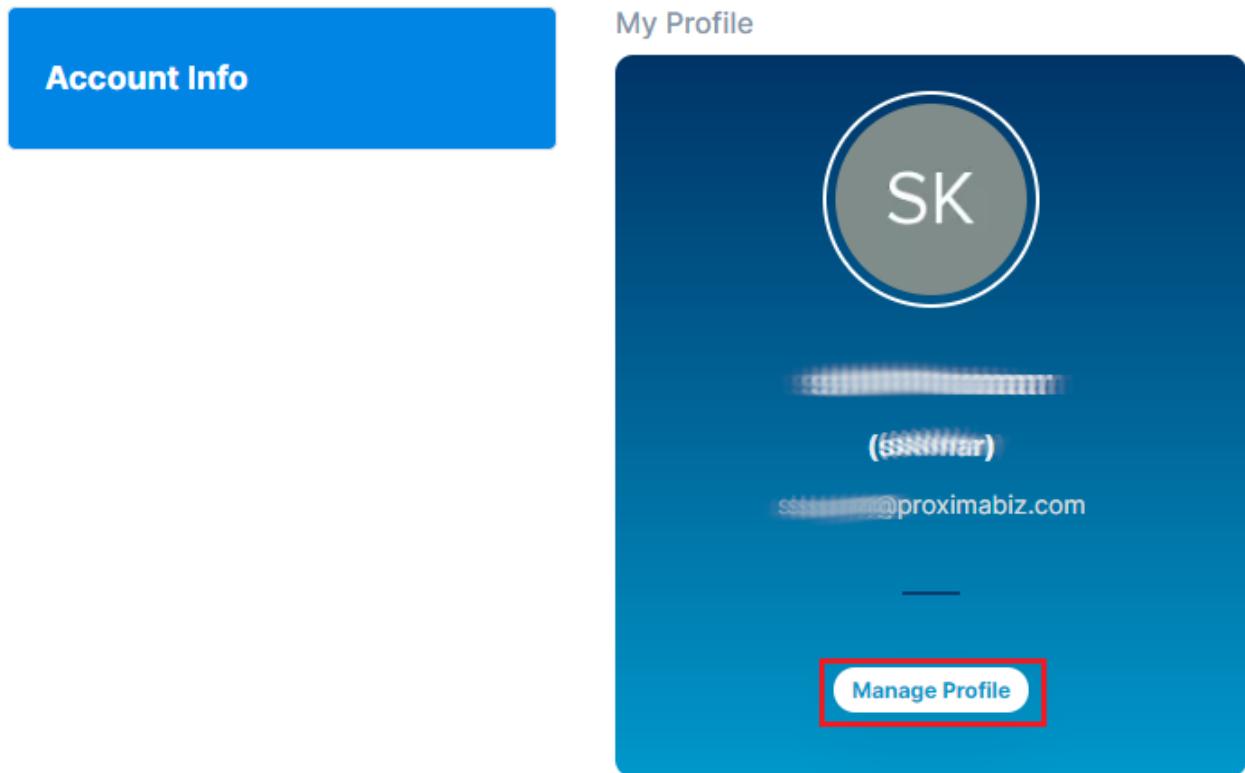
- View your certification badges.
- Change account password
- Add alternative emails
- Link account to social media accounts
- Purchase Linux.com alias email
- View your training and certifications
- View events
- View your transactions

To access My Profile page, perform the following:

Login to [My Portal](#). Click the  icon and select **Account**.



The Account Info page appears. Click **Manage Profile**.



You will navigate to the **My Profile** page. For more information, refer [My Profile](#).

This screenshot shows the "My Profile" page for user "John Doe(jd704337)". The top navigation bar includes "THE LINUX FOUNDATION" and "Logout". The main content area displays the user's profile picture, name, email, and location (United States). It also features sections for "Badges", "Linked Accounts" (with icons for Google, GitHub, LinkedIn, and Facebook), "Linux.com Email" (with an alias and forward-to address), and "Alternate Email". A red box highlights the "Edit My Information" and "Change Password" buttons.

My Profile - Identity and Badges

 My Profile

 Logout

**Events I am Attending**

[Upcoming](#) [Past](#)

Event Name	Location	Date	Role
KubeCon + CloudNativeCon North America 2020	Boston, Massachusetts, US	Nov 17 Nov 19, 2020   3 days	 Speaker
KVM Forum 2020	Convention Centre Dublin	Oct 28 Oct 30, 2020   3 days	 Speaker

**Roles**

[Community](#) [Membership](#)

Foundation/Project Name	Role	Committee	Voting Status
 Envoy	Lead	Technical	Voting Rep
 Cloud Native Computing Foundation	Vice Chair	Board	Voting Rep
 Hyperledger Project	Developer Seat	Working Group	Observer

## My Profile - Events and Community Participation

 My Profile

 Logout

**Training & Certifications**

[Certifications](#)

Course Name	Date & Duration	Status
Technical Services Certification A	Jun 16 Jul 14, 2020   29 days	Pending
Certified Kubernetes Administrator (CKA)	Jun 09 Jul 07, 2020   29 days	Pass
Linux Foundation Certified System Administrator (LFCS)	Mar 10 Jul 13, 2020   4 months 4 days	Failed

**My Transactions**

All Transactions

Order ID	Transaction ID	Date	Status	Transaction Value
LNXISHG	KVM Forum 2020	Jul 13, 2020   12:00:00	Completed	\$150
0217000002xmiWAQ	Individual Supporter	Jul 13, 2020   00:00:00	Completed	\$99
0217000002xmibAA	Email Add-On	Jul 13, 2020   00:00:00	Completed	\$150
ZYDSMML	Linux Security Summit North America 2020	Apr 06, 2020   12:00:00	Completed	\$120

Copyright © 2020 The Linux Foundation\*. All rights reserved. The Linux Foundation has registered trademarks and uses trademarks. For a list of trademarks of The Linux Foundation, please see our [Trademark Usage](#) page. Linux is a registered trademark of Linus Torvalds.

## Training, Certifications and More

# Exam Preparation Checklist

## Checklist Items

### Exam Preparation Checklist

<input type="radio"/> Agree to Global Candidate Agreement	<a href="#">Read Now</a>	<a href="#">Agree to Global Candidate Agreement</a>	<a href="#">?</a>
<input type="radio"/> Verify Name	Status: Pending	<a href="#">Verify Now</a>	<a href="#">?</a>
<input type="radio"/> Select Platform	Platform: <a href="#">Select Platform</a> ▾	<a href="#">Confirm</a>	<a href="#">?</a>
<input type="radio"/> Schedule an Exam	Exam Code: LFCS Exam Date: <a href="#">Schedule</a>	Expiration Date: June 18, 2021 <i>The following items are required to be checked in order to proceed with scheduling your exam: Agree to Global Candidate Agreement, Select a Platform, Verify your name</i>	<a href="#">?</a>
<input type="radio"/> Check System Requirements	<a href="#">Check Now</a>		<a href="#">?</a>
<input type="radio"/> Get Candidate Handbook	<a href="#">Read Now</a>		<a href="#">?</a>
<input type="radio"/> Read the Important Instructions	<a href="#">Read the Important Instructions</a>		<a href="#">?</a>
<input type="radio"/> Take Exam	<i>Pending this section will be available once you have completed all the steps above</i>		
Where's my Free Retake? <a href="#">?</a>			

Candidates should use the exam checklist to review and complete the steps necessary to *schedule* and *take* the exam. When items in the checklist have been completed, a green check mark will appear next to the item.

**Please Note:** The "Schedule" Button will become active, and the Candidate will be able to proceed to schedule an exam, only after they complete the first 3 checklist items:

- Agree to Global Candidate Agreement
- Verify Name
- Select Platform

### Checklist Item    Action Required

Agree to Global Candidate Agreement	Candidates must click on the "Agree to Global Candidate Agreement" to indicate they agree to the "Linux Foundation Global Certification and Candidate Agreement" (available for review by clicking on the "Read Now" button.
-------------------------------------	--

---

	Candidates must click on "Verify Now" to confirm that the First and Last name displayed in this field matches the Government-Issued Photo ID that they will present to the Exam Proctor, at the time of their exam, to verify their identity. <ul style="list-style-type: none"><li>• Click in the field to edit the First or Last name displayed.</li><li>• Click "Accept" to confirm.</li></ul>
Verify Name	
Select Platform	The candidate's exam will be provisioned on the Platform displayed. To select a different platform, <i>and if this is an available option</i> , click on the Platform drop down list and select a preferred platform. Click "Confirm" when done.
	The <i>Schedule</i> button will become available, approximately 30 mins AFTER the candidate has completed the first 3 checklist items.
Schedule an Exam	<p>Clicking on "Schedule" will redirect the candidate to our scheduling partner's site (PSI).</p> <p>The Candidate's exam will be displayed in the "Ready for Schedule" section.</p> <p>Candidates will select from available dates and times for an exam reservation.</p> <p>The Candidate must select a date and time that falls before the expiration date of their exam.</p>
Check System Requirements	<p>The Candidate must check that their machine meets the technical requirements for taking a proctored exam</p> <p>Clicking on the "Check Now" button will direct the Candidate to a System Check Tool. The Candidate should Run the System check and complete any recommended steps.</p> <p><b>If Prompted, the candidate must install the PSI Secure Browser</b></p>
Get Candidate Handbook	Candidates should click on the "Read Now" button to familiarize themselves with the Candidate Handbook prior to taking the exam.

---

**Candidates must complete all checklist items before their scheduled Exam time**

**Take Exam**

The "Take Exam" button will become available 15 minutes prior to the scheduled exam time.

Clicking on "Take Exam" will redirect candidates to the proctoring partner's site, where they will launch the exam.

---

## Verify Your Name

Before the candidate schedules the exam, they must click on the "Verify Now" link to ensure that the First and Last Name listed on their Linux Foundation ID account matches the government-issued photo ID that will be presented to the Exam Proctor, at the time of their exam, to verify their identity.

This will be the same name printed on your certificate, should you pass the exam and become certified.

- Click within the field to edit the First or Last name displayed.
  - Click "Accept" to confirm.
- 

## Platform Selection

The candidate's exam will be provisioned on the Platform displayed in the "Select Platform" field. To select a different platform, *and if this is an available option*, candidates may click on the Platform drop down list and select their preferred platform.

The Candidate may change their selected platform as often as they wish, and up to 24 hrs prior to their scheduled exam date and time. Platform selection options for Linux Foundation Certification Exams are as follows:

Linux Foundation Certification Exam  
Name

Platform Option Available

---

---

LFCA	No Platform
LFCS	CentOS 7 Ubuntu 18.04 <a href="#">Coming Soon: Ubuntu 20.04 + CentOS Stream 8</a>
LFCE	CentOS 7 Ubuntu 18.04 <a href="#">Coming Soon: Ubuntu 20.04 + CentOS Stream 8</a>
CKA	Ubuntu 18.04
CKAD	Ubuntu 18.04
CKS	Ubuntu 18.04
CFCD	Ubuntu 18.04
JSNAD	CentOS 7
JSNSD	CentOS 7
CHFA	Ubuntu 16
CHSA	Ubuntu 16
CHFD	Nodejs_Nodejs
COP	Ubuntu 18.04

---

## Accommodations for Special Needs

If a candidate has special needs that need to be taken into account during exam administration, they must return the [Linux Foundation Certification Program Special Accommodation Request Form](#) to [trainingsupport.linuxfoundation.org](mailto:trainingsupport.linuxfoundation.org).

The completed form must be submitted at least two (2) weeks before the candidate's scheduled exam.

# Scheduling or Rescheduling an Exam

## Choosing a Date and Time for your Exam

Candidates have 12 months, from the date of exam registration, to *schedule* and *take* their exam (plus their free retake if eligible). The Expiration Date displayed in My Portal is the last date on which the exam can be taken. After this date, the candidate's exam eligibility will be marked `expired`.

Candidates will click the "Schedule" button to be directed to the Exam Proctoring Partner's Scheduling site.

Candidates will then be prompted to select their preferred date and the timezone in which they will be taking the exam.

**Exams require a 24-hour lead time to allow for the preparation of the virtual machines,** so the earliest possible reservation date will be the following day. Additionally, the latest possible date presented in the scheduling calendar is 60 days out.

---

## Cancelling or Rescheduling Your Exam

Candidates may cancel or reschedule their exam reservation up to 24 hours before the scheduled start time of their exam. Reservation changes are NOT POSSIBLE when 24 hours or less remain before the exam start time.

If a candidate is a "No-Show" for their scheduled exam reservation, they forfeit the exam registration fees (no refund) and they will not be eligible for a free retake.

If the candidate needs to cancel or reschedule their exam, they may do so by logging into [My Portal](#) and selecting the "Cancel or Reschedule" option.

They will be redirected to our Proctoring Partner's Scheduling site and they can reschedule (by selecting a new date & time) or cancel their existing reservation.

If they Cancel their reservation, the candidate will receive an email from our Proctoring Partner (PSI) confirming their cancellation.

Once cancelled, the "Schedule" button will become available again in the Exam Preparation Checklist.

Candidates will not be able to make changes to the exam reservation when 24 hours or less remain before the start time of the exam.

# Exam Rules and Policies

Candidates must start their exam no later than 15 minutes after the scheduled start time. If a candidate does not start their exam within 15 minutes of the scheduled start time, they will be automatically marked as a no-show and no refund or rescheduling will be allowed.

Candidates must also comply with the following rules and policies during the Exam, and the Proctor cannot release the Exam until the Candidate has indicated that they have read, understood and accept these rules and policies as presented in the [The Linux Foundation Global Candidate Certification and Confidentiality Agreement](#).

---

## Testing Location Rules

- Room must be quiet, private and well lit
  - Bright lights or windows should not be positioned behind the Candidate
  - Testing from public spaces such as coffee shops, stores, etc. is not allowed
  - No one other than the Candidate can be present in the room
  - Desk must be clear of all notes and electronics
- 

## Candidate Conduct Rules During Exam

- Candidate is not allowed to communicate with anyone other than the Proctor during the Exam
- Candidate is not allowed to read the questions out loud, to themselves, during the exam
- Candidate is not allowed to leave their desk or step out of view of the webcam, unless they have been granted specific permission by the Proctor
- Candidate is not allowed to eat, drink (except clear liquids as per rule below), or chew gum
- Candidate is permitted to drink clear liquids from a label-free clear bottle or a clear glass
- Candidate is not allowed to wear any electronic device in their ears, on their face or on their body unless medically necessary

- Candidate must refrain from making excessive and/or repetitive noise
  - Candidate must refrain from covering their mouth and/or face
  - Candidate is not allowed to write or enter input on anything (whether paper, electronic device, etc.) outside of the Exam console screen
  - Candidates must comply with any requests from the Proctor. If Candidate fails to comply, the Exam will be terminated
- 

## Policy on Tools and Resources Allowed during Exam

The following tools and resources are allowed during all Exams as long as they are used by the Candidate to work independently on exam tasks (i.e. not used for 3rd party assistance or research) and are accessed from within the Linux server terminal on which the Exam is delivered (resources that cannot be accessed from within the terminal are not allowed):

- Man pages
- Documents installed by the distribution (i.e. /usr/share and its subdirectories)
- Packages that are part of the distribution (may also be installed by Candidate if not available by default)

Click on your exam title to see the specific resources allowed during your exam:

- [Linux Foundation Certified System Administrator \(LFCS \)](#)
- [Linux Foundation Certified Engineer \(LFCE \)](#)
- [Cloud Foundry Certified Developer \(CFCD\)](#)
- [Certified Kubernetes Administrator \(CKA\)](#)
- [Certified Kubernetes Application Developer \(CKAD\)](#)
- [Certified Kubernetes Security Specialist \(CKS\)](#)
- [Certified Hyperledger Sawtooth Administrator \(CHSA\)](#)
- [Certified Hyperledger Fabric Administrator \(CHFA\)](#)
- [Certified Hyperledger Fabric Developer \(CHFD\)](#)
- [OpenJS Node.js Application Developer \(JSNAD\)](#)
- [OpenJS Node.js Services Developer \(JSNSD\)](#)
- [Certified ONAP Professional \(COP\)](#)

The following resources are forbidden during the Exam:

- Text-based email clients
- Browsing the Internet using installed tools such as Vim and Emacs
- Communications with other Candidates or outside resources
- Use of devices other than the exam desktop
- Notes
- Documentation (\* the documentation installed by the distribution IS permitted)
- Course manuals
- Devices external to computer on which they are taking the exam, including but not limited to: mobile phones, PDAs, wearable computers, smart glasses, smart watches
- Desk must be clear of all notes and electronics

# Taking the Exam

## Launching the Exam

Candidates can click on the "Take Exam" button, located in My Portal, and will be redirected to the Exam Proctoring Partner's site.

You can arrive up to 15 minutes early to start the **Self Check-In** process.

**Please note** that depending on proctor availability, you may need to wait until your exam start time to launch your exam.

## Self Check-In Process

1. Security Check: You will be prompted to download the PSI secure browser, and perform a System Compatibility Check to ensure that your system meets the requirements for exam delivery before being able to proceed.
2. Agreement Screen: You will be prompted to accept the Linux Foundation Certification & Confidentiality Agreement (previously presented at purchase AND when you scheduled your exam)
3. Photo ID Capture: You will be prompted to take a picture of a valid government-issued ID, with a signature. The ID must match the Verified Name, entered in the Exam Preparation Checklist
4. Scan your Room and Workspace: You will be prompted to take a video of your immediate workspace showing that you have no prohibited items within your reach, and that your testing location meets the requirements outlined in our exam rules and policies.
5. Photo Capture: You will be prompted to take a "selfie" which will be used to compare with the photo shown on your Government issued ID.

Once these steps are completed, and if the pictures/videos submitted are accepted by the proctor, the proctor will connect with you and release your exam.

If there are any issues with the picture/video submitted - the proctor will provide instructions on how to resubmit the required documents.

---

## **Re-Launching the Exam in the event of a disconnect**

If the candidate is disconnected from the PSI Secure Browser during their scheduled exam time, they can access the "PSI Secure Browser" Icon (which was installed on their desktop as part of the Secure Browser installation during check in).

Double click on the Browser and perform the self check-in process again, to reconnect with a proctor and resume your exam session.

**If you have any questions, please visit [trainingsupport.linuxfoundation.org](http://trainingsupport.linuxfoundation.org).**

# Language

Exam objectives (i.e. exam tasks) are available in English, Simplified Chinese, and Japanese.

When an exam is launched, the exam objectives (i.e. exam tasks) will default to the preferred language setting detected in the Candidate's browser. If the preferred language **is not available for that exam** then the exam objectives default to English.

If exam objectives are available in multiple languages, the candidate may switch between available languages during the exam by clicking on the "Language Control Dropdown List" in the Content Panel of the exam console.

The following grid outlines the languages available in our Certification Exams:

Exam Title	English (EN)	Japanese (JP)	Simplified Chinese (ZH)
Linux Foundation Systems Administrator	✓	✓	✓
Linux Foundation Certified Engineer	✓	✓	✓
Linux Foundation Certified IT Associate	✓		
Certified Kubernetes Administrator	✓	✓	✓
Certified Kubernetes Application Developer	✓	✓	✓
Cloud Foundry Certified Developer	✓		
Certified Hyperledger Sawtooth Administrator	✓		
Certified Hyperledger Fabric Administrator	✓		

---

Certified Hyperledger Fabric Developer ✓

OpenJS Node.js Application Developer ✓

OpenJS Node.js Services Developer ✓

---

# Exam Duration

The exam duration for LF Exams is outlined below:

Exam Name	Duration (hrs)
LFCS	2
LFCE	2
LFCA	1.5
CKA	2
CKAD	2
CKS	2
CFCD	3
COP	3
CHFA	2
CHFD	2
CHSA	2
JSNAD	2
JSNSD	2

Please note:

- Requesting a break via the Pause Exam function will not stop the timer.
- The LFCA Exam Timer is displayed within the Exam Window and will count down from 90 minutes.
- For all other LF Exams, the Proctor keeps the ultimate timer for the exam.
- The Candidate should check with the Proctor for a true reading of time remaining in the exam if there is any doubt or in cases where the timer has been reset.

# **Policy on Warnings and Exam Terminations**

## **Warnings**

Certain kinds of violations will result in a warning from the Proctor, while certain other violations result in IMMEDIATE TERMINATION OF THE EXAM WITHOUT WARNING.

- If a warning is issued by the Proctor, the Exam will be paused until the Candidate is able to amend or resolve the observed violation.
  - If a Candidate is found to be in violation of the same rule more than twice or is found to be in violation more than four times on any combination of rules, the Exam will be terminated immediately.
- 

## **Exam Terminations**

The following actions result in IMMEDIATE TERMINATION OF THE EXAM WITHOUT WARNING:

- Candidate refuses to comply with a Proctor request
- Candidate is observed to be copying Exam content, whether with software, external device(s), manual transcription, or other means
- Candidate steps out of view of the webcam for extended amount of time without the Proctor's permission
- Someone other than the Candidate is observed to complete or assist with any part of the Exam (e.g. by using Remote Access Software such as LiteManager)
- A discrepancy exists between the input on a Candidate's screen and the Candidate's observed activity

# Exam Misconduct

Candidates engaging in Exam Misconduct, as defined below, will not be allowed to complete the Exam or receive an exam result. Such candidates will also be barred from taking any other LF Certification Exam and if applicable, will have any active LF Certification(s) withdrawn.

Refunds will not be given and rescheduling will not be allowed in the event of early termination of an exam due to misconduct. Misconduct may, at any time, result in application of the sanctions specified in Section 7. You shall adhere to all Program rules and shall not engage in any action to subvert, or attempt to subvert, the examination process (“Exam Misconduct”) including but not limited to:

- Failing to comply with the Exam Rules and Policies as listed in Section 4.2
- Disseminating actual exam content by any means, including, but not limited to, web postings, formal or informal test preparation or discussion groups, chat rooms, reconstruction through memorization, study guides, or any other method, as well as providing exam content or information to any person not expressly authorized by LF to receive such content or information (including but not limited to an LF employee who is not part of the Certification Program staff)
- Copying or otherwise transferring, modifying, making derivative works of, reverse engineering, decompiling, disassembling, or translating any Exam or any part thereof
- Seeking and/or obtaining unauthorized access to examination materials (this includes using recollections of others of materials from previous administration of any Exam, a.k.a. braindump material, and/or any unauthorized publication of Exam questions with or without answers)
- Using falsified or altered certificates, score reports, or other documents or electronic media to misrepresent Certification status
- Allowing another person, or an organization in which you are not actively involved, to use your certification credentials to obtain employment or promotions
- Providing falsified information, documentation or statements as a means of a false identity, false address or solicitation of someone to take a test on another's behalf
- Giving, receiving, or obtaining unauthorized assistance during the examination or attempting to do so
- Making notes of any kind during the Exam, whether on paper or via digital means (other than using the notepad provided within the exam browser tab)

- Possession of non-authorized items during the Exam
- Accepting or providing improper assistance on your Exam or Exams taken by others (e.g. by using Remote Access Software such as LiteManager)
- Removing or attempting to remove Exam material (in any format)
- Intentionally or otherwise repeatedly causing a disturbance of any kind during the Exam
- Tampering with the exam server and its environment or attempting to use it for any function other than taking an LF Exam
- Modifying and/or altering the results and/or score report for this Exam or any other Exam record
- Using computer scripts to register for Exams
- Misconduct as determined by Data Forensics as defined in Section 4.4
- Failing to adhere to any LF or Exam Proctoring Partner policy, procedure, rule, or instruction
- Using profanity, threatening to harm, bully or in any way harass any LF or Exam Proctoring Partner employee or contractor (whether verbally or in writing, including through electronic communications or external web postings)
- Otherwise violating the terms of LF's Certification and Confidentiality Agreement

# Exam Scoring and Notification

Upon completion, exams are scored automatically and a score report will be sent to the candidate via email within 36 hours from the time that the exam was completed.

Results will also be made available on the Portal.

Exams are graded for results.

For performance based exams (non multiple choice exams) there may be more than one way to perform a task on an Exam and unless otherwise specified, the candidate can pick any available path to perform the task as long as it produces the correct result.

The Linux Foundation (LF) and/or the Exam Proctoring Partner will review your exam record for scoring accuracy, for evidence of possible misconduct, and for response patterns that may suggest that your scores do not represent a valid measure of your knowledge or competence as sampled by the examination (measurement error).

LF will use statistical analyses of exam data ("Data Forensics") to identify patterns indicative of test fraud, including cheating and piracy.

LF reserves the right to invalidate your exam score and certification result if review of your exam record reveals scoring inaccuracies (attributable to LF or the Exam Proctoring Partner) or response patterns indicative of possible misconduct or measurement error. If LF determines that an Exam score is invalid due to issues that are beyond the control of the candidate, the candidate will be advised of options to retake the Exam at no charge.

# Exam Results - Pass

Upon passing an exam and if all other requirements for certification have been met, candidates will be granted the certification relevant to the Exam.

Formal notice of successful certification from The Linux Foundation will be emailed within 3 business days of meeting program requirements.

The email notification(s) will include a notice providing the candidate's Certificate ID number and how to access and download a pdf copy of their certificate, and instructions on accessing additional Certification Marks.

## Exam

The screenshot shows a checklist for exam preparation. Most items are marked as completed (green checkmark). One item, "Take Exam", is also marked as completed but includes additional information: Status: Pass, Certificate ID No.: lf-qq7oic2k, Your Score: 90, and Score Needed: 70. A "View Certificate" button is visible next to this section. At the bottom right of the page, there are links for "Activate V" and "Go to Setting".

Exam Preparation Checklist	
<input checked="" type="checkbox"/> Agree to Global Candidate Agreement	<a href="#">Read Now</a>
<input checked="" type="checkbox"/> Verify Name	Status: Done
<input checked="" type="checkbox"/> Select Platform	Platform: Ubuntu 18.04
<input checked="" type="checkbox"/> Schedule an Exam	Exam Code: <span style="background-color: #f0f0f0; padding: 2px;"> </span> Expiration Date: October 26, 2021 Exam Date: June 12, 2020 - 11:00AM America/New_York
<input type="checkbox"/> Check System Requirements	
<input type="checkbox"/> Get Candidate Handbook	<a href="#">Read Now</a>
<input type="checkbox"/> Read the Important Instructions	<a href="#">Read the Important Instructions</a>
<input checked="" type="checkbox"/> Take Exam	Status: Pass Certificate ID No.: lf-qq7oic2k Your Score: 90 Score Needed: 70 <a href="#">View Certificate</a>

## Exam Checklist - Scores available and View Certificate

The Exam Preparation checklist in the portal will also display the candidate's achieved score and includes a "View Certificate" option, that the candidate can click to view and/or download their certificate (.pdf file)

# Exam Results - No Pass

If eligible per the Retake Policy, candidates who do not achieve a passing score on their first attempt will be granted a free retake.

Be sure sure to review the Retake Policy in full to understand eligibility and deadlines for the free retake. Instructions will be provided in the Exam Results notification on how candidates can Claim their free retake.

The screenshot shows a checklist for exam preparation. The items listed are:

- Agree to Global Candidate Agreement (Status: Read Now)
- Verify Name (Status: Done)
- Select Platform (Status: Platform: Ubuntu 18.04)
- Schedule an Exam (Status: Exam Code: [redacted], Exam Date: June 12, 2020 - 12:00PM America/New\_York, Expiration Date: June 12, 2021)
- Check System Requirements (Status: System Requirements Checked)
- Get Candidate Handbook (Status: Read Now)
- Read the Important Instructions (Status: Read the Important Instructions)
- Take Exam (Status: No Pass, Note: You are eligible for a free retake (expires: 12 June 2021), Your Score: 50, Score Needed: 70, Claim Free Retake button)

At the bottom, there are links for "Where's my Free Retake?", "Where's my other Purchase/order?", and buttons for "Activate Win", "Go to Settings", and a dropdown menu.

The Exam Preparation Checklist will display the No-Pass score, and if eligible the candidate can click the "Claim Free Retake" button which will activate a new Checklist and a new exam eligibility.

The candidate will be advised that their current exam data will be stores as Exam History, and they will be taken to the beginning of the exam scheduling process.

If the free retake has been exhausted for this order, and if an additional order is available (if the candidate purchased the certification exam more than once) then they will be prompted to "Claim their next order from this screen.

# **Exam Rescoring Requests**

## **\*\* NOTE\*\***

### **Exam Rescoring is NOT available for the LFCA Exam**

Though we cannot guarantee the availability of rescoring for an exam server, candidates who did not earn a passing score may submit a request for an exam to be rescored, up to 2 days following the date on which the exam was taken. (Please note there is a fee involved, which must be paid via credit card.)

To request a rescore, you may submit [a request to trainingsupport.linuxfoundation.org](mailto:a request to trainingsupport.linuxfoundation.org) within 2 days following the date on which the exam was taken.

If your exam is eligible for a rescore, you will be provided with information on rescore fees and instructions on how to submit payment.

If the rescore results in a change from No Pass to Pass on the exam, the rescore fee will be refunded.

# Retake Policy

For certification exams purchased directly from The Linux Foundation and not marked as SINGLE-ATTEMPT or SINGLE, one (1) free retake per exam purchase will be granted in the event that a passing score is not achieved and Candidate has not otherwise been deemed ineligible for certification or retake.

Unless otherwise indicated in the exam order, the free retake must be completed within 12 months of the date of the original exam purchase.

After the free retake has been exhausted or the deadline to complete the free retake has passed, Candidates may register and pay to take the exam again, with no discount given for such additional retakes.

For purchases made through an Authorized Training Partner (ATP), please contact the ATP regarding eligibility for a free retake

# Repurchasing the Exam

Candidates have the option to repurchase the exam at any time from the [course catalog](#)

Only one exam order will be "active" for each purchased exam.

When the Active purchase has been used (the candidate has taken the exam and passed OR you has taken both the first and second attempt and achieved "no pass") the **Claim Your Next Order** button will be enabled in the exam checklist.

When you click the Claim Your Next Order button, the current exam data will be stored as a history and the candidate a new Exam Preparation Checklist will be displayed in the candidate's portal.

## Exam

The screenshot shows a list of tasks in a checklist format:

- Agree to Global Candidate Agreement (Status: [Read Now](#))
- Verify Name (Status: Done)
- Select Platform (Platform: CentOS 7)
- Schedule an Exam (Exam Code: LFCE, Exam Date: July 06, 2020 - 02:22AM, Expiration Date: April 06, 2021)
- Check System Requirements (Status: System Requirements Checked, [Check Again](#))
- Get Candidate Handbook ([Read Now](#))
- Read the Important Instructions ([Read the Important Instructions](#))
- Take Exam (Status: No Pass, Your Score: 26, Score Needed: 55, [Claim Your Next Order](#))

# Certificates and Certification

Certified Candidates (“Certificants”) receive a Certificate ID number and a certificate indicating the successful completion of the requirements necessary to achieve the title indicated on their certificate.

Certifications expire 36\* months from the date that a certificant successfully passes their certification exam, unless revoked earlier for cause or certificant successfully completes certification renewal requirements.

\* **NOTE:** CKS Certifications expire 24 months from the date that certificant successfully passes their certification exam, unless revoked earlier for cause or certificant successfully completes certification renewal requirements

The primary method for confirming the status of a certification is to use The Linux Foundation’s [Certification Verification Tool](#).

---

## Certificate

The Linux Foundation Exam Certificates lists the following information:

- - Name of the Candidate who obtained the certificate
    - Title of Certification (e.g. Linux Foundation Certified System Administrator)
    - Certificate ID number
    - Achievement Date (i.e. date Exam was passed)
- 

## Certification Expiration

Certifications expire 36\*\* months from the date that the Program Certification requirements are met by a candidate.

**\*\*NOTE THE SPECIFIC EXPIRATION POLICY FOR CKS, LFCS, LFCE AND CFCD CERTIFICATIONS \*\***

## **LFCS**

LFCS Certifications awarded on or after April 10, 2018 (based on LFCS v3 release) will expire 36 months from the date that the program Certification requirements were met by the candidate. All other LFCS Certifications will expire 24 months from the date that the Program Certification Requirements were met.

## **LFCE**

LFCE Certifications awarded on or after June 10, 2018 (based on LFCS v3 release) will expire 36 months from the date the Program Certification requirements were met by the candidate. All other LFCE Certifications will expire 24 months from the date that the Program Certification Requirements were met.

## **CFCD**

CFCD Certifications awarded on or after September 05, 2019 will expire 36 months from the date that the Program certification requirements are met by a candidate, all other CFCD Certifications will expire 24 months from the date that the Program certification requirements are met, unless revoked earlier for cause of Certificant successfully completes Certification renewal

Certificants must meet [renewal requirements](#) prior to the expiration date of their current certification in order to maintain active certification. If certification renewal requirements are not completed before the expiration date, certification will be revoked.

## **CKS**

CKS Certifications will expire 24 months from the date that the Program certification requirements are met, unless revoked earlier for cause of Certificant successfully completes Certification renewal

---

# Certification Renewal Requirements

Certification **Renewal** requirements must be completed prior to the expiration of the Certification.

Candidates may keep their Certification valid by retaking and passing the same exam, prior to the expiration of their certification.

The Certification will become valid for 3 years (2 years for CKS) starting on the date the exam is retaken and passed.

## LFCS Renewal (Additional Option)

LFCS candidates can also renew their certification by passing a higher-level Certification (LFCE).

On the date that a Candidate with an active LFCS Certification achieves LFCE Certification, the expiration of their LFCS Certification will be extended for 3 years so that both their LFCE and LFCS Certifications expire on the same date.

The date on which their LFCS Certification expiration is extended (i.e. renewed) becomes the Renewal Date.

For example, a Certificant holds an active LFCS Certification expiring on August 20, 2019.

The Certificant then achieves LFCE Certification on March 1, 2020.

Their lower-level LFCS Certification will be extended (i.e. renewed) for 3 years effective March 1, 2020 and both their newly achieved LFCE and renewed LFCS Certifications will have the same expiration date of March 1, 2023.

# Digital Badge

The Linux Foundation has partnered with Credly's [Acclaim](#) platform to provide candidates with a digital version of their credentials. Badges will be issued to everyone who passes one of our certification exams and can be used in email signatures or digital resumes, as well as on social media sites such as LinkedIn, Facebook, and Twitter.

Further details of our Certification Badges are [available here](#).

# Certification Verification Tool

The Linux Foundation provides a [verification tool](#) that allows users (e.g. potential employers or clients) to validate the status of an individual's certification. To submit a query on this verification tool, a user must enter the Certificate ID number and the Last Name listed on the certificate of a successfully certified individual. (The Last Name must be entered exactly as listed on the Certificate, including any special characters.) The result for a successfully submitted query will include the full name of certificant, certification title and status (active/inactive), and the date that the certification was achieved.

# Certification Revocation

The Linux Foundation (LF) will revoke Certification if the candidate fails to comply with Certification renewal requirements. In addition, LF may, in its sole discretion, revoke any and all Certifications the candidate may have earned and permanently ban them from earning future Certifications under any of the following circumstances:

- If the candidate uses profanity, threaten to harm, bully or in any way harass any LF or Exam Proctoring Partner employee or contractor (whether verbally or in writing, including through electronic communications or external web postings);
- If the candidate breaches the terms and conditions of [The Linux Foundation Global Certification and Confidentiality Agreement](#);
- If LF determines, in its sole discretion pursuant to the Exam Misconduct and Professional Code of Conduct Violations, that the candidate has undertaken or participated in Exam Misconduct as defined in the Exam Misconduct Policy, or violated the Professional Code of Conduct.
- If you have been convicted of a crime that LF deems, in its sole discretion, in any way harms or affects LF's or the Program's reputation, goodwill or security; or
- If you have lost or settled a civil case in which LF is the plaintiff and the claim arose from any alleged damage to LF, its brand, goodwill or reputation.

# Professional Code of Conduct

Candidates, before and after Certification, shall:

- Perform duties with objectivity, due diligence and professional care.
- Access private information on computer systems only when it is necessary in the course of technical duties. Maintain the privacy and confidentiality of information obtained in the course of your activities unless disclosure is required by legal authority. Such information shall not be used for personal benefit or released to inappropriate parties.
- Provide service in your areas of competence, being honest and forthright about any limitations of your experience and education. Maintain competency in your respective fields and agree to undertake only those activities you can reasonably expect to complete with the necessary skills, knowledge and competence.
- Strive to ensure the necessary integrity, reliability, and availability of the systems for which you are responsible.
- Design and maintain each system in a manner consistent with the purpose of the system to the organization.
- Inform appropriate parties of the results of work performed including the disclosure of all significant facts known to you that, if not disclosed, may distort the reporting of the results.
- Not engage in deceptive financial practices such as bribery, double billing, or other improper financial practices.
- Obey all laws governing your work, unless, in exceptional circumstances, such compliance is inconsistent with the public interest.
- Promote no interest adverse to your employer or client, unless a higher ethical concern is being compromised; in that case, inform the employer or another appropriate authority of the ethical concern.
- Avoid entering into conflicting obligations with one client, such as obligations of confidentiality, availability for work, or otherwise, which conflict with obligations to another client.
- Not unlawfully discriminate or knowingly permit unlawful discrimination on the basis of race, national origin, sex, sexual orientation, religion, age or disability in: (1) hiring, promoting, discharging, or otherwise determining the conditions of employment of any person; or (2) accepting or terminating representation of any client.

- Identify, document, and report significant issues of social concern, of which you are aware, in software or related documents, to the employer or the client.
- Ensure that you have no other professional or contractual obligations that are inconsistent with this Code of Conduct.
- Participate in any investigation of exam irregularities. Refusal to co-operate can be the basis for revocation of certification or cancellation of eligibility.
- Notify LF if they are unable to continue to perform the skills and competencies prior to their certification expiration.

# **Appeals**

In the event that sanctions are imposed pursuant to the Exam Misconduct and Professional Code of Conduct Violations, or your exam score is invalidated pursuant to the Exam Misconduct Policy, you will have thirty (30) calendar days from the date of your notification letter to file an appeal. If you believe you have valid grounds for an appeal, please contact The Linux Foundation (LF) within the appeals period and submit a Certification Appeals Submission Form as instructed in the notification letter. Incomplete submissions will not be considered nor will requests be received after the thirty (30) calendar day period.

If The Linux Foundation determines that a request for appeal is filed within the allowable time, the submission follows required guidelines for consideration and the original sanction and invalidation decision is upheld by LF, such appeal and the information submitted by you will be forwarded to the LF Certifications Appeals Committee for consideration. You may expect to receive a written response from LF within approximately ninety (90) calendar days after the Appeals Committee meets. Decisions rendered by the Appeals Committee are final.

---

## **Appeals Decision**

You may expect to receive a written response from The Linux Foundation within ninety (90) calendar days after the Appeals Committee meets. Decisions rendered by the Appeals Committee are final.

---

## **Copyright**

All exam questions are the property of The Linux Foundation and are protected by copyright. Most national laws provide severe civil and criminal penalties for the unauthorized reproduction, distribution, or exhibition of copyrighted materials.

# Important Instructions: LFCS and LFCE

**COMING SOON:**

**Ubuntu 20.04 and CentOS Stream 8.**

**[Click here](#) to view full details of our planned changes.**

---

## Exam Details

- The exams are delivered online and consist of performance-based tasks (problems) to be solved on the command line running Linux.
  - The exams consist of 20-25 performance-based tasks.
  - The exams are expected to take 2 hours to complete
  - The exams are proctored remotely via streaming audio, video, and screen sharing feeds.
- 

## What You Need For Your Exam

- Candidates must provide their own front-end hardware to take the exams, including a computer with:
    - current version of Chrome or Chromium browser (*beta versions are not recommended*)
    - reliable internet access (*turn off services that may run in the background like BitTorrent or Google Drive*)
    - webcam
    - microphone
  - Candidates should run the [WebDelivery Compatibility Check](#) (<https://www.examslocal.com/ScheduleExam/Home/CompatibilityCheck>) provided by the Exam Proctoring Partner, to verify that their hardware meets the minimum requirements.
-

# ID Requirements to take the Exam

- Candidates are required to provide a non-expired Primary ID that contains Candidate's photograph, signature and full name (see acceptable forms of ID in the table below)
- The name on your Primary ID **must exactly match** [the verified name](#) on your exam checklist.
- If the Candidate's full name on their Primary ID contains non-latin characters, then the Candidate must ALSO provide a non-expired Secondary ID containing their full name in Latin Characters and signature, OR a notarized English translation of their Primary ID along with the non-latin character Primary ID

<b>Primary ID</b> <i>(non-expired and including photograph and signature)</i>	<b>Secondary ID</b> <i>(non-expired and including signature with Candidate name in Latin characters)</i>
Passport	Debit (ATM) Card
Government-issued driver's license/permit	Credit Card
Government-Issued local language ID (plastic card with photo and signature)	Health Insurance Card
National Identity card	U.S. Social Security Card
State or province-issued identity card	Employee ID Card
住民基本台帳 (Basic resident register with Photo) or マイナンバーカード (My number card)	Student ID Card Japanese Health Insurance Card

## Additional Allowances:

- Some government issued ID such as a passport, driver's license, military ID or state/country card may be a biometric type and may or may not contain a signature. In these cases Primary ID will be accepted without a signature on condition that you also present a Secondary ID which does contain your signature (e.g. bank, credit or debit card)

- For candidates testing in Japan, a Driver's License (with name and recent recognizable photo) is acceptable as a primary ID as long as it is accompanied with a Japanese health insurance card (健康保険証). In Japan, the Japanese health insurance card (健康保険証) is an acceptable form of secondary ID.
  - Minors, between the age of 16-18, are permitted to take an online proctored exam with PSI, provided they complete the following requirements:
    - A Parent/Guardian must complete the [Parental Release for Testing of Minors](#) form, and submit it to [certificationsupport@linuxfoundation.org](mailto:certificationsupport@linuxfoundation.org), at least 2 weeks prior to the scheduled date of the exam
    - At check in, the minor candidate must present a valid student ID as a form of identification
    - During the PSI check-in process, the candidate's guardian must also present a valid ID and must provide verbal consent during the PSI check-in process.
- 

## Sanctioned Countries

Exams may be administered to citizens of a sanctioned country listed below PROVIDED the citizens are tested OUTSIDE the sanctioned country and their exam registration and current ID show an address OUTSIDE the sanctioned country.

- Cuba
  - Iran
  - Syria
  - Sudan
  - North Korea
  - Crimea Region of Ukraine
- 

## Resources allowed during exam

The following tools and resources are allowed during the Exam as long as they are used by Candidate to work independently on exam tasks (i.e. not used for 3rd party assistance or

research) and are accessed from within the Linux server terminal on which the Exam is delivered (resources that cannot be accessed from within the terminal are not allowed):

- Man pages
- Documents installed by the distribution (i.e. /usr/share and its subdirectories)
- Packages that are part of the distribution (may also be installed by Candidate if not available by default)

Please see the [Candidate Handbook](#) for additional information covering policies, procedures and rules during the exam.

---

## Exam Environment

- The exam environment consists of a base node (*hostname:node-1*) and a number of *LXD* containers and remote nodes on which certain questions must be answered. Those *LXD* containers and remote nodes are accessible via *ssh*, using a command such as the following: *ssh <nodename>*
  - You will be directed to *ssh* into appropriate containers and remote nodes, where needed, at the start of each question.
  - If no *ssh* instruction is provided, you must answer the question on the base node (*hostname: node-1*).
  - When you have finished working on a node other than *node-1*, you must ensure that you return to *node-1* when you have completed the item.
  - Nested *ssh* is not supported.
  - *~/.ssh/config* is configured appropriately for both the *root* and *student* users to *ssh* to all nodes as *root*, and you can also find entries in */etc/hosts* for all containers/remote nodes that may be required during your exam for your reference.
  - You should avoid rebooting *node-1*, as the supporting infrastructure will take around 15 minutes to start, and stabilize.
  - You are free to reboot any node other than *node-1* at any time.
  - You may obtain *root* privileges at any time using the following command: *sudo -i*
  - You should not manipulate the firewall on the base node (*hostname: node-1*).
-

## Technical Instructions

1. Root privileges can be obtained by running 'sudo -i'.
2. Do not stop or tamper with the cterminal process as this will END YOUR EXAM SESSION.
3. Do not block incoming ports 8080/tcp, 4505/tcp and 4506/tcp. This includes firewall rules that are found within the distribution's default firewall configuration files as well as interactive firewall commands.
4. Use Ctrl+Alt+W instead of Ctrl+W.  
Ctrl+W is a keyboard shortcut that will close the current tab in Google Chrome.

5. Ctrl+C & and Ctrl+V are not supported in your exam terminal.

To copy and paste text, please use;

For Linux: select text for copy and middle button for paste (or both left and right simultaneously if you have no middle button).

For Mac: ⌘+C to copy and ⌘+V to paste.

For Windows: Ctrl+Insert to copy and Shift+Insert to paste.

6. Installation of services and applications included in this exam may require modification of system security policies to successfully complete.
7. Only a single terminal console is available during the exam. Terminal multiplexers such as GNU Screen and tmux can be used to create virtual consoles.

---

## FAQ

Answers to Frequently Asked Questions (FAQ) can be found [here](#).

If you need additional help, please login with your LF Account to <https://trainingsupport.linuxfoundation.org> and use the search bar to find an answer to your question, or select your request type from the categories provided.

# Resources Allowed: All LF Certification Programs

## Linux Foundation Certified System Administrator (LFCS) & Linux Foundation Certified Engineer (LFCE)

The following tools and resources are allowed during the Exam as long as they are used by Candidate to work independently on exam tasks (i.e. not used for 3rd party assistance or research) and are accessed from within the Linux server terminal on which the Exam is delivered (resources that cannot be accessed from within the terminal are not allowed):

- Man pages
  - Documents installed by the distribution (i.e. /usr/share and its subdirectories)
  - Packages that are part of the distribution (may also be installed by Candidate if not available by default)
- 

## Certified Kubernetes Administrator (CKA) & Certified Kubernetes Application Developer (CKAD)

The following tools and resources are allowed during the exam as long as they are used by candidates to work independently on exam tasks (i.e. not used for 3rd party assistance or research) and are accessed from within the Linux server terminal on which the Exam is delivered.

During the exam, candidates may:

- review the Exam content instructions that are presented in the command line terminal.
- review Documents installed by the distribution (i.e. /usr/share and its subdirectories)
- use their Chrome or Chromium browser to open one additional tab in order to access assets at: <https://kubernetes.io/docs/>, <https://github.com/kubernetes/>, <https://kubernetes.io/blog/> and their subdomains. This includes all available language translations of these pages (e.g. <https://kubernetes.io/zh/docs/>)

No other tabs may be opened and no other sites may be navigated to (including <https://discuss.kubernetes.io/>).

*The allowed sites above may contain links that point to external sites. It is the responsibility of the candidate not to click any links to navigate to a domain that is not allowed*

---

## Certified Kubernetes Security Specialist (CKS)

The following tools and resources are allowed during the exam as long as they are used by candidates to work independently on exam tasks (i.e. not used for 3rd party assistance or research) and are accessed from within the Linux server terminal on which the Exam is delivered.

During the exam, candidates may:

- review the Exam content instructions that are presented in the command line terminal.
- review Documents installed by the distribution (i.e. /usr/share and its subdirectories)
- use their Chrome or Chromium browser to open one additional tab in order to access
  - **Kubernetes Documentation:**
    - <https://kubernetes.io/docs/> and their subdomains
    - <https://github.com/kubernetes/> and their subdomains
    - <https://kubernetes.io/blog/> and their subdomains

This includes all available language translations of these pages (e.g.

<https://kubernetes.io/zh/docs/>)

- **Tools:**

- Trivy documentation <https://github.com/aquasecurity/trivy>
- Sysdig documentation <https://docs.sysdig.com/>
- Falco documentation <https://falco.org/docs/>

This includes all available language translations of these pages (e.g.

<https://falco.org/zh/docs/>)

- **App Armor:**

- Documentation  
<https://gitlab.com/apparmor/apparmor/-/wikis/Documentation>

*The allowed sites above may contain links that point to external sites. It is the responsibility of the candidate not to click any links to navigate to a domain that is not allowed*

---

## Cloud Foundry Certified Developer (CFCD)

The following tools and resources are allowed during the exam as long as they are used by candidates to work independently on exam tasks (i.e. not used for 3rd party assistance or research) and are accessed from within the Linux server terminal on which the Exam is delivered.

During the exam, candidates may only use their Chrome or Chromium browser to open one additional tab in order to:

(a) access the following assets for reference during the exam:

- [Docs.cloudfoundry.org](https://Docs.cloudfoundry.org)
- [Apidocs.cloudfoundry.org](https://Apidocs.cloudfoundry.org)
- [V3-apidocs.cloudfoundry.org](https://V3-apidocs.cloudfoundry.org)
- [plugins.cloudfoundry.org](https://plugins.cloudfoundry.org)

(b) access applications in the following domain deployed during the exam as part of completing performance based items:

- [de.a9sapp.eu](https://de.a9sapp.eu)

No other tabs may be opened and no other sites may be navigated to.

*The allowed site above may contain links that point to external sites. It is the responsibility of the candidate not to click any links to navigate to a domain that is not allowed*

*The allowed sites above may contain links that point to external sites.*

*It is the responsibility of the candidate not to click on any links that cause them to navigate to a domain that is not allowed.*

All other resources not in the list above are \*\*prohibited\*\*. If you open any other site (including a Google search), or if you open more than one additional browser tab, your exam will be terminated by the proctor. For this reason, we recommend you ensure you are comfortable searching [docs.cloudfoundry.org](https://docs.cloudfoundry.org).

---

## **Certified Hyperledger Fabric Administrator (CHFA)**

The following tools and resources are allowed during the exam as long as they are used by candidates to work independently on exam tasks (i.e. not used for 3rd party assistance or research) and are accessed from within the Linux server terminal on which the Exam is delivered. During the exam, candidates may:

- review the Exam content instructions that are presented in the command line terminal.
- type “man lf\_exam” in the command line to view instructions again at any time during the Exam.
- use their Chrome or Chromium browser to open one additional tab in order to access assets at <https://hyperledger-fabric.readthedocs.io/en/release-1.4/> and its subdomains, and <https://hyperledger-fabric-ca.readthedocs.io/en/release-1.4/> and its subdomains.

No other tabs may be opened and no other sites may be navigated to.

*The allowed site above may contain links that point to external sites. It is the responsibility of the candidate not to click any links to navigate to a domain that is not allowed.*

---

## **Certified Hyperledger Sawtooth Administrator (CHSA)**

The following tools and resources are allowed during the exam as long as they are used by candidates to work independently on exam tasks (i.e. not used for 3rd party assistance or research) and are accessed from within the Linux server terminal on which the Exam is delivered. During the exam, candidates may

- review the Exam content instructions that are presented in the command line terminal.
- type “man If\_exam” in the command line to view instructions again at any time during the Exam.
- use their Chrome or Chromium browser to open one additional tab in order to access assets at <https://sawtooth.hyperledger.org/docs/core/releases/1.0.5/> and its subdomains.

No other tabs may be opened and no other sites may be navigated to.

*The allowed site above may contain links that point to external sites. It is the responsibility of the candidate not to click any links to navigate to a domain that is not allowed.*

---

## Certified Hyperledger Fabric Developer (CHFD)

The following tools and resources are allowed during the exam as long as they are used by candidates to work independently on exam tasks (i.e. not used for 3rd party assistance or research) and are accessed from within the Linux server terminal on which the Exam is delivered.

During the exam, candidates may

only use their Chrome or Chromium browser to open one additional tab in order to access technical documentation related to:

- Hyperledger Fabric
- Node.js/JavaScript

Note that the following sites are *explicitly prohibited* and accessing these sites will lead to immediate termination of the exam without warning.

- **Stack Overflow** ([stackoverflow.com](http://stackoverflow.com))
- **Stack Exchange** ([stackexchange.com](http://stackexchange.com))
- **Server Fault** ([serverfault.com](http://serverfault.com))
- **Super User** ([superuser.com](http://superuser.com))

Other *similar discussion forum sites* may also lead to immediate termination of the exam.

---

## Certified ONAP Professional (COP)

During the exam, candidates may only use the browser within the VM to open ONAP Documentation located at: <https://docs.onap.org/en/dublin/> and its subdomains.

The allowed site above may contain links that point to external sites. *It is the responsibility of the candidate not to click any links to navigate to a domain that is not allowed.*

Candidates will be permitted to access sites included in the exam task instructions or any other referenced link within the exam environment.

Candidates are not permitted to open additional browsers outside of the exam environment.

---

## OpenJS Node.js Application Developer (JSNAD) & OpenJS Node.js Services Developer (JSNSD)

The following tools and resources are allowed during the exam as long as they are used by candidates to work independently on exam tasks (i.e. not used for 3rd party assistance or research) and are accessed from within the Linux server terminal on which the Exam is delivered.

During the exam Candidates may only use the browser within the VM to access Node.js or JavaScript documentation and the documentation of any Node.js ecosystem modules used.

Stack Overflow ([www.stackoverflow.com](http://www.stackoverflow.com)), Stack Exchange ([www.stackexchange.com](http://www.stackexchange.com)), Server Fault ([www.serverfault.com](http://www.serverfault.com)) or Super User ([www.superuser.com](http://www.superuser.com)) will not be accessible to the candidate during the exam.

*The Linux Foundation has registered trademarks and uses trademarks. For a list of trademarks of The Linux Foundation, please see our [Trademark Usage Page](#). Linux is a registered trademark of Linus Torvalds.*

# Frequently Asked Questions: Linux Foundation Certified IT Associate (LFCA)

## What is the Linux Foundation Certified IT Associate (LFCA) Certification?

The Linux Foundation Certified IT Associate (LFCA) certification is a pre-professional certification intended for those new to the industry or considering starting an IT career. This certification is ideal for users interested in advancing to the professional level through a demonstrated understanding of critical concepts for modern IT systems including cloud computing.

The LFCA will test candidates' knowledge of fundamental IT concepts including operating systems, software application installation and management, hardware installation, use of the command line and basic programming, basic networking functions, security best practices, and other related topics to validate their capability and preparedness for an entry-level IT position.

---

## How much does the exam cost?

The exam costs \$200 USD.

---

## How is the exam proctored?

The certification exam is proctored remotely via streaming audio, video, and screen sharing feeds.

The screensharing feed allows proctors to view candidates' desktops (including all monitors).

The audio, video, and screen sharing feeds will be stored for a limited period of time in the event that there is a subsequent need for review.

---

## **What are the system requirements to take the exam?**

Exams are delivered online and Candidates must provide their own computer with:

- At this time, the exam delivery system does not support any Linux/Unix based Operating Systems. Please check back in Mid February 2021, for an update to this status.
- Current version of Chrome or Chromium
  - you don't need to install a virtual machine, use a client machine, or anything beyond a Chrome or Chromium browser
  - Make sure you have third party cookies turned on for the duration of the exam.
- Reliable internet access
  - Ensure others on the same internet connection are not performing activities that use excessive bandwidth (i.e. holding conference calls, streaming content, gaming, etc.)
  - A wired connection is often more stable and robust than a wireless connection
  - Turn off bandwidth-intensive services (e.g. file sync, dropbox, BitTorrent)
- Microphone
  - Please check to make sure it is working before you start your exam session.
- Webcam
  - Ensure the webcam is capable of being moved as you will be required to pan your surroundings to check for potential violations of exam policy.
  - If you will be testing from an employer-provide ISP or will use an employer provided machine, please ensure that streaming will be allowed using WebRTC.

Candidates should run the [PSI Online System Security Check](#) to verify that their machine meets the technical requirements for taking a proctored exam.

---

## **What are the Testing Environment requirements to take the exam?**

Below are the expectations for an acceptable testing environment:

- Clutter-free work area

- No objects such as paper, writing implements, electronic devices, or other objects on top of surface
  - No objects such as paper, trash bins, or other objects below the testing surface
  - Clear walls
    - No paper/print outs hanging on walls
    - Paintings and other wall décor is acceptable
    - Candidates will be asked to remove non-décor items prior to the exam being released
  - Lighting
    - Space must be well lit so that proctor is able to see candidate's face, hands, and surrounding work area
    - No bright lights or windows behind the examinee
  - Other
    - Candidate must remain within the camera frame during the examination
    - Space must be private where there is no excessive noise. Public spaces such as coffee shops, stores, open office environments, etc. are not allowed.
- 

## What are the ID requirements to take the exam?

Candidates are required to provide a non-expired Primary ID that contains Candidate's photograph, signature and full name (see acceptable forms of ID in the table below).

The name on your Primary ID **must exactly match** [the verified name](#) on your exam checklist.

If the Candidate's full name on their Primary ID contains non-latin characters, then the Candidate must ALSO provide a non-expired Secondary ID containing their full name in Latin Characters and signature, OR a notarized English translation of their Primary ID along with the non-latin character Primary ID.

**Primary ID**  
(non-expired and including photograph and signature)

**Secondary ID**  
(non-expired and including signature with Candidate name in Latin characters)

---

---

## Passport

Government-issued driver's license/permit	Debit (ATM) Card
Government-issued local language ID (with photo and signature)	Credit Card
National Identity card	Health Insurance Card
State or province-issued identity card	U.S. Social Security Card
住民基本台帳 (Basic resident register with Photo) or マイナンバーカード (My number card)	Employee ID Card Student ID Card Japanese Health Insurance Card

---

## Additional Allowances:

- Some government issued ID such as a passport, driver's license, military ID or state/country card may be a biometric type and may or may not contain a signature. In these cases Primary ID will be accepted without a signature on condition that you also present a Secondary ID which does contain your signature (e.g. bank, credit or debit card)
- For candidates testing in Japan, a Driver's License (with name and recent recognizable photo) is acceptable as a primary ID as long as it is accompanied with a Japanese health insurance card (健康保険証). In Japan, the Japanese health insurance card (健康保険証) is an acceptable form of secondary ID.
- Minors, between the age of 16-18, are permitted to take an online proctored exam with PSI, provided they complete the following requirements:
  - A Parent/Guardian must complete the [Parental Release for Testing of Minors](#) form, and submit it to [trainingsupport.linuxfoundation.org](http://trainingsupport.linuxfoundation.org), at least 2 weeks prior to the scheduled date of the exam
  - At check in, the minor candidate must present a valid student ID as a form of identification
  - During the PSI check-in process, the candidate's guardian must also present a valid ID and must provide verbal consent during the PSI check-in process.

Exams may be administered to citizens of a sanctioned country listed below PROVIDED the citizens are tested OUTSIDE the sanctioned country and their exam registration and current

ID show an address OUTSIDE the sanctioned country.

- Cuba
  - Iran
  - Syria
  - Sudan
  - North Korea
  - Crimea Region of Ukraine
- 

## **How long will the exam take?**

Candidates are allowed 90 minutes to complete the LFCA Exam.

---

## **What score is needed to pass the exam?**

For the LFCA Exam, a score of 75% or above must be earned to pass.

---

## **How is my exam scored?**

Exams are scored automatically, usually within 24 hours of completion.

Results will be emailed within 36 hours from the time that the Exam was completed.

---

## **What language(s) is the exam offered In?**

The multiple choice questions are only available in English.

---

## **How long is my certification valid for?**

LFCA Certifications are valid for 3 years.

---

## **How do I renew my certification?**

Candidates have the option to retake and pass the exam to renew their certification.

Certification Renewal must be completed prior to the certification expiration date.

The renewed certification will be valid for a further 3 years effective from the date the exam is passed.

---

## **How do I get additional exam-related questions answered?**

If you need additional help, please login with your LF Account to

<https://trainingsupport.linuxfoundation.org> and use the search bar to find an answer to your question, or select your request type from the categories provided..

# Important Instructions: LFCA

## Exam Details

- The exam is delivered online and consists of 60 multiple choice questions.
- Candidates have 90 minutes to complete the LFCA exam.
- The exam is proctored remotely via streaming audio, video, and screen sharing feeds.
- Results will be emailed 36 hours from the time that the exam is completed.

## System Requirements to take the exam

Exams are delivered online and Candidates must provide their own computer with:

- Current version of Chrome or Chromium
  - you don't need to install a virtual machine, use a client machine, or anything beyond a Chrome or Chromium browser
  - Make sure you have third party cookies turned on for the duration of the exam.
- Reliable internet access
  - Ensure others on the same internet connection are not performing activities that use excessive bandwidth (i.e. holding conference calls, streaming content, gaming, etc.)
  - A wired connection is often more stable and robust than a wireless connection
  - Turn off bandwidth-intensive services (e.g. file sync, dropbox, BitTorrent)
  -
- Microphone
  - Please check to make sure it is working before you start your exam session.
- Webcam
  - Ensure the webcam is capable of being moved as the proctor may ask you to pan your surroundings to check for potential violations of exam policy.
  - Try holding up your ID while viewing your webcam feed to ensure your placement and resolution are sufficient for the person viewing your feed to read your ID.
  - If you will be testing from an employer-provide ISP or will use an employer provided machine, please ensure that streaming will be allowed using WebRTC.

Candidates should run the [PSI Online System Security Check](#) to verify that their machine meets the technical requirements for taking a proctored exam.

## Acceptable Testing Location

Below are the expectations for an acceptable testing location::

- Clutter-free work area
  - No objects such as paper, writing implements, electronic devices, or other objects on top of surface
  - No objects such as paper, trash bins, or other objects below the testing surface
- Clear walls
  - No paper/print outs hanging on walls
  - Paintings and other wall décor is acceptable
  - Candidates will be asked to remove non-décor items prior to the exam being released
- Lighting
  - Space must be well lit so that proctor is able to see candidate's face, hands, and surrounding work area
  - No bright lights or windows behind the examinee
- Other
  - Candidate must remain within the camera frame during the examination
  - Space must be private where there is no excessive noise. Public spaces such as coffee shops, stores, open office environments, etc. are not allowed.

## ID Requirements to take the Exam

- Candidates are required to provide a non-expired Primary ID that contains Candidate's photograph, signature and full name (see acceptable forms of ID in the table below)
- The name on your Primary ID **must exactly match** [the verified name](#) on your exam checklist.
- If the Candidate's full name on their Primary ID contains non-latin characters, then the Candidate must ALSO provide a non-expired Secondary ID containing their full name in Latin Characters and signature, OR a notarized English translation of their Primary ID along with the non-latin character Primary ID

<b>Primary ID</b> (non-expired and including photograph and signature)	<b>Secondary ID</b> (non-expired and including signature with Candidate name in Latin characters)
Passport	
Government-issued driver's license/permit	
Government-Issued local language ID (with photo and signature)	Debit (ATM) Card
National Identity card	Credit Card
State or province-issued identity card	Health Insurance Card
住民基本台帳 (Basic resident register with Photo) or マイナンバーカード (My number card)	U.S. Social Security Card Japanese Health Insurance Card

#### Additional Allowances:

- Some government issued ID such as a passport, driver's license, military ID or state/country card may be a biometric type and may or may not contain a signature. In these cases Primary ID will be accepted without a signature on condition that you also present a Secondary ID which does contain your signature (e.g. bank, credit or debit card)
- For candidates testing in Japan, a Driver's License (with name and recent recognizable photo) is acceptable as a primary ID as long as it is accompanied with a Japanese health insurance card (健康保険証). In Japan, the Japanese health insurance card (健康保険証) is an acceptable form of secondary ID

## Sanctioned Countries

Exams may be administered to citizens of a sanctioned country listed below PROVIDED the citizens are tested OUTSIDE the sanctioned country and their exam registration and current ID show an address OUTSIDE the sanctioned country.

- Cuba
- Iran
- Syria

- Sudan
- North Korea
- Crimea Region of Ukraine

## **Additional Resources**

If you cannot find an answer to your question in the Candidate Handbook or [FAQ](#), please login to [trainingsupport.linuxfoundation.org](https://trainingsupport.linuxfoundation.org) to submit a customer support request.

# Frequently Asked Questions: CKA and CKAD & CKS

## What is the Certified Kubernetes Administrator (CKA) Certification?

The Certified Kubernetes Administrator (CKA) certification is designed to ensure that certification holders have the skills, knowledge, and competency to perform the responsibilities of Kubernetes Administrators. The CKA certification allows certified administrators to quickly establish their credibility and value in the job market, and also allowing companies to more quickly hire high-quality teams to support their growth.

---

## What is the Certified Kubernetes Application Developer (CKAD) Certification?

The Certified Kubernetes Application Developer (CKAD) certification is designed to provide assurance that certification holders have the skills, knowledge, and competency to perform the responsibilities of Kubernetes application developers. A Certified Kubernetes Application Developer can define application resources and use core primitives to build, monitor, and troubleshoot scalable applications and tools in Kubernetes.

---

## What is the Certified Kubernetes Security Specialist (CKS) Certification?

The Certified Kubernetes Security Specialist (CKS) certification is designed to provide assurance that certification holders are accomplished Kubernetes practitioners (as evidenced by holding the CKA credential) who have demonstrated competence on a broad range of best practices for securing container-based applications and Kubernetes platforms during build, deployment and runtime.

Certified Kubernetes Security Specialist (CKS) candidates must have taken and passed the Certified Kubernetes Administrator (CKA) exam **prior to attempting the CKS exam**.

CKS may be purchased but not scheduled until CKA certification has been achieved. CKA Certification must be active (non-expired) on the date the CKS exam (including Retakes) is scheduled.

---

## How much does the exam cost?

The exam costs \$300 USD.

---

## How is the exam proctored?

The certification exam is proctored remotely via streaming audio, video, and screen sharing feeds. The screensharing feed allows proctors to view candidates' desktops (including all monitors). The audio, video, and screen sharing feeds will be stored for a limited period of time in the event that there is a subsequent need for review.

---

## What are the system requirements to take the exam?

Exams are delivered online and Candidates must provide their own computer with:

- Current version of Chrome or Chromium
  - you don't need to install a virtual machine, use a client machine, or anything beyond a Chrome or Chromium browser
  - Make sure you have third party cookies turned on for the duration of the exam.
- Reliable internet access
  - Ensure others on the same internet connection are not performing activities that use excessive bandwidth (i.e. holding conference calls, streaming content, gaming, etc.)
  - A wired connection is often more stable and robust than a wireless connection

- Turn off bandwidth-intensive services (e.g. file sync, dropbox, BitTorrent)
  - Microphone
    - Please check to make sure it is working before you start your exam session.
  - Webcam
    - Ensure the webcam is capable of being moved as the proctor may ask you to pan your surroundings to check for potential violations of exam policy.
    - Try holding up your ID while viewing your webcam feed to ensure your placement and resolution are sufficient for the person viewing your feed to read your ID.
    - If you will be testing from an employer-provide ISP or will use an employer provided machine, please ensure that streaming will be allowed using WebRTC.
- Candidates should run the [compatibility check tool](#) to verify that their hardware meets the minimum requirements.
- 

## What are the Testing Environment requirements to take the exam?

Below are the expectations for an acceptable testing environment:

- Clutter-free work area
  - No objects such as paper, writing implements, electronic devices, or other objects on top of surface
  - No objects such as paper, trash bins, or other objects below the testing surface
- Clear walls
  - No paper/print outs hanging on walls
  - Paintings and other wall décor is acceptable
  - Candidates will be asked to remove non-décor items prior to the exam being released
- Lighting
  - Space must be well lit so that proctor is able to see candidate's face, hands, and surrounding work area
  - No bright lights or windows behind the examinee
- Other
  - Candidate must remain within the camera frame during the examination
  - Space must be private where there is no excessive noise. Public spaces such as coffee shops, stores, open office environments, etc. are not allowed.

# What are the ID requirements to take the exam?

Candidates are required to provide a non-expired Primary ID that contains Candidate's photograph, signature and full name (see acceptable forms of ID in the table below).

The name on your Primary ID **must exactly match** [the verified name](#) on your exam checklist.

If the Candidate's full name on their Primary ID contains non-latin characters, then the Candidate must ALSO provide a non-expired Secondary ID containing their full name in Latin Characters and signature, OR a notarized English translation of their Primary ID along with the non-latin character Primary ID.

Primary ID (non-expired and including photograph and signature)	Secondary ID (non-expired and including signature with Candidate name in Latin characters)
Passport	Debit (ATM) Card
Government-issued driver's license/permit	Credit Card
Government-Issued local language ID (with photo and signature)	Health Insurance Card
National Identity card	U.S. Social Security Card
State or province-issued identity card	Employee ID Card
住民基本台帳 (Basic resident register with Photo) or マイナンバーカード (My number card)	Student ID Card
	Japanese Health Insurance Card

## Additional Allowances:

- Some government issued ID such as a passport, driver's license, military ID or state/country card may be a biometric type and may or may not contain a signature. In these cases Primary ID will be accepted without a signature on condition that you also present a Secondary ID which does contain your signature (e.g. bank, credit or debit card)

- For candidates testing in Japan, a Driver's License (with name and recent recognizable photo) is acceptable as a primary ID as long as it is accompanied with a Japanese health insurance card (健康保険証). In Japan, the Japanese health insurance card (健康保険証) is an acceptable form of secondary ID.
- Minors, between the age of 16-18, are permitted to take an online proctored exam with PSI, provided they complete the following requirements:
  - A Parent/Guardian must complete the [Parental Release for Testing of Minors](#) form, and submit it to [trainingsupport.linuxfoundation.org](http://trainingsupport.linuxfoundation.org) at least 2 weeks prior to the scheduled date of the exam
  - At check in, the minor candidate must present a valid student ID as a form of identification
  - During the PSI check-in process, the candidate's guardian must also present a valid ID and must provide verbal consent during the PSI check-in process.

Exams may be administered to citizens of a sanctioned country listed below PROVIDED the citizens are tested OUTSIDE the sanctioned country and their exam registration and current ID show an address OUTSIDE the sanctioned country.

- Cuba
  - Iran
  - Syria
  - Sudan
  - North Korea
  - Crimea Region of Ukraine
- 

## How long will the exam take?

Candidates are allowed 2 hours to complete the CKA, CKAD and CKS Exams.

---

## What score is needed to pass the exam?

For the CKA Exam, a score of 66% or above must be earned to pass.

For the CKAD Exam, a score of 66% or above must be earned to pass.

For the CKS Exam, a score of 67% or above must be earned to pass.

---

## How is my exam scored?

Exams are scored automatically, usually within 24 hours of completion.

Results will be emailed within 36 hours from the time that the Exam was completed.

Exams are graded for results.

There may be more than one way to perform a task on an Exam and unless otherwise specified, the candidate can pick any available path to complete the task as long as it produces the correct result.

---

## What resources am I allowed to access during my exam?

### CKA & CKAD Exam

During the CKA & CKAD exam, candidates may:

- review the Exam content instructions that are presented in the command line terminal
- review Documents installed by the distribution (i.e. /usr/share and its subdirectories)
- use their Chrome or Chromium browser to open one additional tab in order to access assets at: <https://kubernetes.io/docs/>, <https://github.com/kubernetes/>, <https://kubernetes.io/blog/> and their subdomains. This includes all available language translations of these pages (e.g. <https://kubernetes.io/zh/docs/>)

No other tabs may be opened and no other sites may be navigated to (including <https://discuss.kubernetes.io/>).

*The allowed sites above may contain links that point to external sites. It is the responsibility of the candidate not to click on any links that cause them to navigate to a domain that is not allowed.*

## CKS

During the CKS exam, candidates may:

- review the Exam content instructions that are presented in the command line terminal.
- review Documents installed by the distribution (i.e. /usr/share and its subdirectories)
- use their Chrome or Chromium browser to open one additional tab in order to access

- **Kubernetes Documentation:**

- <https://kubernetes.io/docs/> and their subdomains
- <https://github.com/kubernetes/> and their subdomains
- <https://kubernetes.io/blog/> and their subdomains

This includes all available language translations of these pages (e.g.

<https://kubernetes.io/zh/docs/>)

- **Tools:**

- Trivy documentation <https://github.com/aquasecurity/trivy>
- Sysdig documentation <https://docs.sysdig.com/>
- Falco documentation <https://falco.org/docs/>

This includes all available language translations of these pages (e.g.

<https://falco.org/zh/docs/>)

- **App Armor:**

- Documentation  
<https://gitlab.com/apparmor/apparmor/-/wikis/Documentation>

*The allowed sites above may contain links that point to external sites. It is the responsibility of the candidate not to click any links to navigate to a domain that is not allowed*

---

## What application version is running in the Exam Environment?

The CKA exam environment is currently running Kubernetes v1.20

The CKAD exam environment is currently running Kubernetes v1.20

The CKS exam environment is currently running Kubernetes v1.20

The CKA, CKS and CKAD exam environment will be aligned with the most recent K8s minor version within approximately 4 to 8 weeks of the K8s release date.

---

## **What language(s) is the exam offered In?**

CKA and CKAD Exam tasks are available in English, Simplified Chinese, and Japanese.  
CKS Exam tasks are only available in English.

When an exam is launched, the exam tasks will default to the preferred language setting detected in the Candidate's browser. If the preferred language is not available for that exam, then the exam tasks default to English. Candidates may switch between available languages during the exam by clicking on the "Language Control Dropdown List" in the Content Panel of the exam console.

---

## **How long is my certification valid for?**

CKA and CKAD Certifications are valid for 3 years.  
CKS Certification is valid for 2 years.

---

## **How do I renew my certification?**

Candidates have the option to retake and pass the exam to renew their certification.  
Certification Renewal must be completed prior to the certification expiration date.  
The CKA & CKAD renewed certification will be valid for a further 3 years effective from the date the exam is passed.  
The CKS renewed certification will be valid for a further 2 years effective from the date the exam is passed.

---

## **Is there training to prepare for the certification exam?**

The Linux Foundation offers a free [Introduction to Kubernetes course](#) which provides an introduction to many key concepts for Kubernetes. The [Fundamentals of Kubernetes \(LFS258\)](#) course builds on this introductory material and is designed as preparation for the Certified Kubernetes Administrator Exam.

The topics covered in the [Kubernetes for Developers \(LFS259\)](#) course are directly aligned with the knowledge domains tested by the Certified Kubernetes Application Developer Exam.

---

## **What is the recourse for someone who attributes exam failure to the testing environment?**

We understand that taking the exams via remote desktop and a new platform environment may cause a lag time for some, however there are trade offs needed to offer this exam remotely.

We will continually monitor and seek to improve the testing experience over time.

When eligible, we do offer free retakes for those who do not pass the first time, regardless of why.

# Important Instructions: CKA and CKAD

## Exam Details

- The exams are delivered online and consist of performance-based tasks (problems) to be solved on the command line running Linux.
- The exams consist of 15-20 performance-based tasks.
- Candidates have 2 hours to complete the CKA and CKAD exam.
- The exams are proctored remotely via streaming audio, video, and screen sharing feeds.
- Results will be emailed 36 hours from the time that the exam is completed.

## System Requirements to take the exam

Exams are delivered online and Candidates must provide their own computer with:

- Current version of Chrome or Chromium
  - you don't need to install a virtual machine, use a client machine, or anything beyond a Chrome or Chromium browser
  - Make sure you have third party cookies turned on for the duration of the exam.
- Reliable internet access
  - Ensure others on the same internet connection are not performing activities that use excessive bandwidth (i.e. holding conference calls, streaming content, gaming, etc.)
  - A wired connection is often more stable and robust than a wireless connection
  - Turn off bandwidth-intensive services (e.g. file sync, dropbox, BitTorrent)
- Microphone
  - Please check to make sure it is working before you start your exam session.
- Webcam
  - Ensure the webcam is capable of being moved as the proctor may ask you to pan your surroundings to check for potential violations of exam policy.
  - Try holding up your ID while viewing your webcam feed to ensure your placement and resolution are sufficient for the person viewing your feed to read your ID.
  - If you will be testing from an employer-provide ISP or will use an employer provided machine, please ensure that streaming will be allowed using WebRTC.

Candidates should run the [compatibility check tool](#) to verify that their hardware meets the minimum requirements.

## Acceptable Testing Location

Below are the expectations for an acceptable testing location::

- Clutter-free work area
  - No objects such as paper, writing implements, electronic devices, or other objects on top of surface
  - No objects such as paper, trash bins, or other objects below the testing surface
- Clear walls
  - No paper/print outs hanging on walls
  - Paintings and other wall décor is acceptable
  - Candidates will be asked to remove non-décor items prior to the exam being released
- Lighting
  - Space must be well lit so that proctor is able to see candidate's face, hands, and surrounding work area
  - No bright lights or windows behind the examinee
- Other
  - Candidate must remain within the camera frame during the examination
  - Space must be private where there is no excessive noise. Public spaces such as coffee shops, stores, open office environments, etc. are not allowed.

Please see the [Candidate Handbook](#) for additional information covering policies, procedures and rules during the exam

## ID Requirements to take the Exam

- Candidates are required to provide a non-expired Primary ID that contains Candidate's photograph, signature and full name (see acceptable forms of ID in the table below)
- The name on your Primary ID **must exactly match** [the verified name](#) on your exam checklist.

- If the Candidate's full name on their Primary ID contains non-latin characters, then the Candidate must ALSO provide a non-expired Secondary ID containing their full name in Latin Characters and signature, OR a notarized English translation of their Primary ID along with the non-latin character Primary ID

<b>Primary ID</b> (non-expired and including photograph and signature)	<i>Secondary ID</i> (non-expired and including signature with Candidate name in Latin characters)
Passport	Debit (ATM) Card
Government-issued driver's license/permit	Credit Card
Government-Issued local language ID (with photo and signature)	Health Insurance Card
National Identity card	U.S. Social Security Card
State or province-issued identity card	Employee ID Card
住民基本台帳 (Basic resident register with Photo) or マイナンバーカード (My number card)	Student ID Card
	Japanese Health Insurance Card

#### Additional Allowances:

- Some government issued ID such as a passport, driver's license, military ID or state/country card may be a biometric type and may or may not contain a signature. In these cases Primary ID will be accepted without a signature on condition that you also present a Secondary ID which does contain your signature (e.g. bank, credit or debit card)
- For candidates testing in Japan, a Driver's License (with name and recent recognizable photo) is acceptable as a primary ID as long as it is accompanied with a Japanese health insurance card (健康保険証). In Japan, the Japanese health insurance card (健康保険証) is an acceptable form of secondary ID
- Minors, between the age of 16-18, are permitted to take an online proctored exam with PSI, provided they complete the following requirements:
  - A Parent/Guardian must complete the [Parental Release for Testing of Minors](#) form, and submit it to [trainingsupport.linuxfoundation.org](http://trainingsupport.linuxfoundation.org), at least 2 weeks prior to the

- scheduled date of the exam
- At check in, the minor candidate must present a valid student ID as a form of identification
  - During the PSI check-in process, the candidate's guardian must also present a valid ID and must provide verbal consent during the PSI check-in process.

## Sanctioned Countries

Exams may be administered to citizens of a sanctioned country listed below PROVIDED the citizens are tested OUTSIDE the sanctioned country and their exam registration and current ID show an address OUTSIDE the sanctioned country.

- Cuba
- Iran
- Syria
- Sudan
- North Korea
- Crimea Region of Ukraine

## Resources allowed during exam

During the exam, candidates may:

- review the Exam content instructions that are presented in the command line terminal
- review Documents installed by the distribution (i.e. /usr/share and its subdirectories)
- use their Chrome or Chromium browser to open one additional tab in order to access assets at: <https://kubernetes.io/docs/>, <https://github.com/kubernetes/>, <https://kubernetes.io/blog/> and their subdomains. This includes all available language translations of these pages (e.g. <https://kubernetes.io/zh/docs/>)

No other tabs may be opened and no other sites may be navigated to (including <https://discuss.kubernetes.io/>).

*The allowed sites above may contain links that point to external sites. It is the responsibility of the candidate not to click on any links that cause them to navigate to a domain that is not allowed.*

## Exam Technical Instructions

1. Root privileges can be obtained by running 'sudo -i'.
2. Rebooting of your server IS permitted at any time.
3. Do not stop or tamper with the cterminal process as this will END YOUR EXAM SESSION.
4. Do not block incoming ports 8080/tcp, 4505/tcp and 4506/tcp. This includes firewall rules that are found within the distribution's default firewall configuration files as well as interactive firewall commands.
5. Use Ctrl+Alt+W instead of Ctrl+W.  
5.1 Ctrl+W is a keyboard shortcut that will close the current tab in Google Chrome.
6. Ctrl+C & and Ctrl+V are not supported in your exam terminal.  
To copy and paste text, please use;
  - 6.1 For Linux: select text for copy and middle button for paste (or both left and right simultaneously if you have no middle button).
  - 6.2 For Mac: ⌘+C to copy and ⌘+V to paste.
  - 6.3 For Windows: Ctrl+Insert to copy and Shift+Insert to paste.
  - 6.4 In addition, you might find it helpful to use the Notepad (see top menu under 'Exam Controls') to manipulate text before pasting to the command line.
7. Installation of services and applications included in this exam may require modification of system security policies to successfully complete.
8. Only a single terminal console is available during the exam. Terminal multiplexers such as GNU Screen and tmux can be used to create virtual consoles.

## CKA & CKAD Environment

- Each task on this exam must be completed on a designated cluster/configuration context.
- To minimize switching, the tasks are grouped so that all questions on a given cluster appear consecutively.
- There are six clusters (CKA) / four clusters (CKAD) that comprise the exam environment, made up of varying numbers of containers, as follows:

CKA Clusters

Cluster	Members	CNI	Description

k8s	1 master, 2 worker	flannel	k8s cluster
hk8s	1 master, 2 worker	calico	k8s cluster
bk8s	1 master, 1 worker	flannel	k8s cluster
wk8s	1 master, 2 worker	flannel	k8s cluster
ek8s	1 master, 2 worker	flannel	k8s cluster
ik8s	1 master, 1 base node	loopback	k8s cluster – missing worker node

### CKAD Clusters

Cluster	Members	CNI	Description
k8s	1 master, 2 worker	flannel	k8s cluster
dk8s	1 master, 1 worker	flannel	k8s cluster
nk8s	1 master, 2 worker	calico	k8s cluster
sk8s	1 master, 1 worker	flannel	k8s cluster

- At the start of each task you'll be provided with the command to ensure you are on the correct cluster to complete the task.
- Nodes making up each cluster can be reached via ssh, using a command such as the following: ssh <nodename>
- You can assume elevated privileges on any node by issuing the following command: sudo -i
- You can also use sudo to execute commands with elevated privileges at any time
- You must return to the base node (hostname node-1) after completing each task.
- Nested-ssh is not supported.
- You can use kubectl and the appropriate context to work on any cluster from the base node. When connected to a cluster member via ssh, you will only be able to work on that particular cluster via kubectl.

- Further instructions for connecting to cluster nodes will be provided in the appropriate tasks
- Where no explicit namespace is specified, the default namespace should be acted upon.
- If you need to destroy/recreate a resource to perform a certain task, it is your responsibility to back up the resource definition appropriately prior to destroying the resource.
- The CKA & CKAD environments are currently running Kubernetes v1.20.

*The CKA, CKS and CKAD exam environment will be aligned with the most recent K8s minor version within approximately 4 to 8 weeks of the K8s release date.*

## **Additional Resources**

If you need additional help, please login with your LF Account to

<https://trainingsupport.linuxfoundation.org> and use the search bar to find an answer to your question, or select your request type from the categories provided.

# Important Instructions: CKS

## Exam Details

- The exams are delivered online and consist of performance-based tasks (problems) to be solved on the command line running Linux.
- The exams consist of 15-20 performance-based tasks.
- Candidates have 2 hours to complete the CKS exam.
- The exam is proctored remotely via streaming audio, video, and screen sharing feeds.
- Results will be emailed 36 hours from the time that the exam is completed.

## System Requirements to take the exam

Exams are delivered online and Candidates must provide their own computer with:

- Current version of Chrome or Chromium
  - you don't need to install a virtual machine, use a client machine, or anything beyond a Chrome or Chromium browser
  - Make sure you have third party cookies turned on for the duration of the exam.
- Reliable internet access
  - Ensure others on the same internet connection are not performing activities that use excessive bandwidth (i.e. holding conference calls, streaming content, gaming, etc.)
  - A wired connection is often more stable and robust than a wireless connection
  - Turn off bandwidth-intensive services (e.g. file sync, dropbox, BitTorrent)
- Microphone
  - Please check to make sure it is working before you start your exam session.
- Webcam
  - Ensure the webcam is capable of being moved as the proctor may ask you to pan your surroundings to check for potential violations of exam policy.
  - Try holding up your ID while viewing your webcam feed to ensure your placement and resolution are sufficient for the person viewing your feed to read your ID.
  - If you will be testing from an employer-provide ISP or will use an employer provided machine, please ensure that streaming will be allowed using WebRTC.

Candidates should run the [compatibility check tool](#) to verify that their hardware meets the minimum requirements.

## Acceptable Testing Location

Below are the expectations for an acceptable testing location::

- Clutter-free work area
  - No objects such as paper, writing implements, electronic devices, or other objects on top of surface
  - No objects such as paper, trash bins, or other objects below the testing surface
- Clear walls
  - No paper/print outs hanging on walls
  - Paintings and other wall décor is acceptable
  - Candidates will be asked to remove non-décor items prior to the exam being released
- Lighting
  - Space must be well lit so that proctor is able to see candidate's face, hands, and surrounding work area
  - No bright lights or windows behind the examinee
- Other
  - Candidate must remain within the camera frame during the examination
  - Space must be private where there is no excessive noise. Public spaces such as coffee shops, stores, open office environments, etc. are not allowed.

Please see the [Candidate Handbook](#) for additional information covering policies, procedures and rules during the exam

## ID Requirements to take the Exam

- Candidates are required to provide a non-expired Primary ID that contains Candidate's photograph, signature and full name (see acceptable forms of ID in the table below)
- The name on your Primary ID **must exactly match** [the verified name](#) on your exam checklist.

- If the Candidate's full name on their Primary ID contains non-latin characters, then the Candidate must ALSO provide a non-expired Secondary ID containing their full name in Latin Characters and signature, OR a notarized English translation of their Primary ID along with the non-latin character Primary ID

<b>Primary ID (non-expired and including photograph and signature)</b>	<b><i>Secondary ID (non-expired and including signature with Candidate name in Latin characters)</i></b>
Passport	Debit (ATM) Card
Government-issued driver's license/permit	Credit Card
Government-Issued local language ID (with photo and signature)	Health Insurance Card
National Identity card	U.S. Social Security Card
State or province-issued identity card	Employee ID Card
住民基本台帳 (Basic resident register with Photo) or マイナンバーカード (My number card)	Student ID Card
	Japanese Health Insurance Card

#### Additional Allowances:

- Some government issued ID such as a passport, driver's license, military ID or state/country card may be a biometric type and may or may not contain a signature. In these cases Primary ID will be accepted without a signature on condition that you also present a Secondary ID which does contain your signature (e.g. bank, credit or debit card)
- For candidates testing in Japan, a Driver's License (with name and recent recognizable photo) is acceptable as a primary ID as long as it is accompanied with a Japanese health insurance card (健康保険証). In Japan, the Japanese health insurance card (健康保険証) is an acceptable form of secondary ID
- Minors, between the age of 16-18, are permitted to take an online proctored exam with PSI, provided they complete the following requirements:
  - A Parent/Guardian must complete the [Parental Release for Testing of Minors](#) form, and submit it to [trainingsupport.linuxfoundation.org](http://trainingsupport.linuxfoundation.org), at least 2 weeks prior to the scheduled date of the exam

- At check in, the minor candidate must present a valid student ID as a form of identification
- During the PSI check-in process, the candidate's guardian must also present a valid ID and must provide verbal consent during the PSI check-in process.

## Sanctioned Countries

Exams may be administered to citizens of a sanctioned country listed below PROVIDED the citizens are tested OUTSIDE the sanctioned country and their exam registration and current ID show an address OUTSIDE the sanctioned country.

- Cuba
- Iran
- Syria
- Sudan
- North Korea
- Crimea Region of Ukraine

## Resources allowed during exam

During the exam, candidates may:

- review the Exam content instructions that are presented in the command line terminal.
- review Documents installed by the distribution (i.e. /usr/share and its subdirectories)
- use their Chrome or Chromium browser to open one additional tab in order to access

- **Kubernetes Documentation:**

- <https://kubernetes.io/docs/> and their subdomains
- <https://github.com/kubernetes/> and their subdomains
- <https://kubernetes.io/blog/> and their subdomains

This includes all available language translations of these pages (e.g.

<https://kubernetes.io/zh/docs/>)

- **Tools:**

- Trivy documentation <https://github.com/aquasecurity/trivy>
- Sysdig documentation <https://docs.sysdig.com/>
- Falco documentation <https://falco.org/docs/>

This includes all available language translations of these pages (e.g.

<https://falco.org/zh/docs/>)

- **App Armor:**

- Documentation

<https://gitlab.com/apparmor/apparmor/-/wikis/Documentation>

*The allowed sites above may contain links that point to external sites. It is the responsibility of the candidate not to click any links to navigate to a domain that is not allowed*

## Exam Technical Instructions

1. Root privileges can be obtained by running 'sudo -i'.
2. Rebooting of your server IS permitted at any time.
3. Do not stop or tamper with the certerminal process as this will END YOUR EXAM SESSION.
4. Do not block incoming ports 8080/tcp, 4505/tcp and 4506/tcp. This includes firewall rules that are found within the distribution's default firewall configuration files as well as interactive firewall commands.
5. Use Ctrl+Alt+W instead of Ctrl+W.  
5.1 Ctrl+W is a keyboard shortcut that will close the current tab in Google Chrome.
6. Ctrl+C & and Ctrl+V are not supported in your exam terminal.

To copy and paste text, please use;

- 6.1 For Linux: select text for copy and middle button for paste (or both left and right simultaneously if you have no middle button).
- 6.2 For Mac: ⌘+C to copy and ⌘+V to paste.
- 6.3 For Windows: Ctrl+Insert to copy and Shift+Insert to paste.
- 6.4 In addition, you might find it helpful to use the Notepad (see top menu under 'Exam Controls') to manipulate text before pasting to the command line.
7. Installation of services and applications included in this exam may require modification of system security policies to successfully complete.
8. Only a single terminal console is available during the exam. Terminal multiplexers such as GNU Screen and tmux can be used to create virtual consoles.

## CKS Environment

- Each task on this exam must be completed on a designated cluster/configuration context.
- Sixteen clusters comprise the exam environment, one for each task. Each cluster is made up of one master node and one worker node.
- An infobox at the start of each task provides you with the cluster name/context and the hostname of the master and worker node.
- You can switch the cluster/configuration context using a command such as the following:

```
kubectl config use-context <cluster/context name>
```

- Nodes making up each cluster can be reached via ssh, using a command such as the following:

```
ssh <nodename>
```

- You have elevated privileges on any node by default, so there is no need to assume elevated privileges.
- You must return to the base node (hostname cli) after completing each task.
- Nested `-ssh` is not supported.
- You can use `kubectl` and the appropriate context to work on any cluster from the base node. When connected to a cluster member via ssh, you will only be able to work on that particular cluster via kubectl.
- For your convenience, all environments, in other words, the base system and the cluster nodes, have the following additional command-line tools pre-installed and pre-configured:

- `kubectl` with `k` alias and Bash completion
- `yq` and `jq` for YAML/JSON processing
- `tmux` for terminal multiplexing
- `curl` and `wget` for testing web services
- `man` and man pages for further documentation

- Further instructions for connecting to cluster nodes will be provided in the appropriate tasks
- The CKS environment is currently running Kubernetes v1.20.

*The CKS exam environment will be aligned with the most recent K8s minor version within approximately 4 to 8 weeks of the K8s release date.*

## Additional Resources

If you need additional help, please login with your LF Account to  
<https://trainingsupport.linuxfoundation.org> and use the search bar to find an answer to  
your question, or select your request type from the categories provided.

# Frequently Asked Questions: CFCD

## What is the Cloud Foundry Certified Developer Exam?

The Cloud Foundry Certified Developer (CFCD) Exam is a performance-based exam designed to verify a candidate's expertise using the Cloud Foundry platform and building cloud-native applications

---

## How much does the exam cost?

The exam costs \$300 USD.

---

## How is the exam proctored?

The certification exam is proctored remotely via streaming audio, video, and screen sharing feeds.

The screensharing feed allows proctors to view candidates' desktops (including all monitors).

The audio, video, and screen sharing feeds will be stored for a limited period of time in the event that there is a subsequent need for review.

---

## What are the system requirements to take the exam?

Exams are delivered online and Candidates must provide their own computer with:

- Current version of Chrome or Chromium
  - you don't need to install a virtual machine, use a client machine, or anything beyond a Chrome or Chromium browser
  - Make sure you have third party cookies turned on for the duration of the exam.
- Reliable internet access

- Ensure others on the same internet connection are not performing activities that use excessive bandwidth (i.e. holding conference calls, streaming content, gaming, etc.)
- A wired connection is often more stable and robust than a wireless connection
- Turn off bandwidth-intensive services (e.g. file sync, dropbox, BitTorrent)
- Microphone
  - Please check to make sure it is working before you start your exam session.
- Webcam
  - Ensure the webcam is capable of being moved as you will be required to pan your surroundings to check for potential violations of exam policy.
  - If you will be testing from an employer-provide ISP or will use an employer provided machine, please ensure that streaming will be allowed using WebRTC.

Candidates should run the [PSI Online System Security Check](#) to verify that their machine meets the technical requirements for taking a proctored exam.

---

## What are the Testing Environment requirements to take the exam?

Below are the expectations for an acceptable testing environment:

- Clutter-free work area
  - No objects such as paper, writing implements, electronic devices, or other objects on top of surface
  - No objects such as paper, trash bins, or other objects below the testing surface
- Clear walls
  - No paper/print outs hanging on walls
  - Paintings and other wall décor is acceptable
  - Candidates will be asked to remove non-décor items prior to the exam being released
- Lighting
  - Space must be well lit so that proctor is able to see candidate's face, hands, and surrounding work area
  - No bright lights or windows behind the examinee
- Other

- Candidate must remain within the camera frame during the examination
  - Space must be private where there is no excessive noise. Public spaces such as coffee shops, stores, open office environments, etc. are not allowed.
- 

## What are the ID requirements to take the exam?

Candidates are required to provide a non-expired Primary ID that contains Candidate's photograph, signature and full name (see acceptable forms of ID in the table below).

The name on your Primary ID **must exactly match** [the verified name](#) on your exam checklist.

If the Candidate's full name on their Primary ID contains non-latin characters, then the Candidate must ALSO provide a non-expired Secondary ID containing their full name in Latin Characters and signature, OR a notarized English translation of their Primary ID along with the non-latin character Primary ID.

Primary ID (non-expired and including photograph and signature)	Secondary ID (non-expired and including signature with Candidate name in Latin characters)
Passport	
Government-issued driver's license/permit	Debit (ATM) Card
Government-Issued local language ID (with photo and signature)	Credit Card
National Identity card	Health Insurance Card
State or province-issued identity card	U.S. Social Security Card
住民基本台帳 (Basic resident register with Photo) or マイナンバーカード (My number card)	Employee ID Card
	Student ID Card
	Japanese Health Insurance Card

---

Additional Allowances:

- Some government issued ID such as a passport, driver's license, military ID or state/country card may be a biometric type and may or may not contain a signature. In these cases Primary ID will be accepted without a signature on condition that you also present a Secondary ID which does contain your signature (e.g. bank, credit or debit card)
- For candidates testing in Japan, a Driver's License (with name and recent recognizable photo) is acceptable as a primary ID as long as it is accompanied with a Japanese health insurance card (健康保険証). In Japan, the Japanese health insurance card (健康保険証) is an acceptable form of secondary ID.
- Minors, between the age of 16-18, are permitted to take an online proctored exam with PSI, provided they complete the following requirements:
  - A Parent/Guardian must complete the [Parental Release for Testing of Minors](#) form, and submit it to [trainingsupport.linuxfoundation.org](https://trainingsupport.linuxfoundation.org), at least 2 weeks prior to the scheduled date of the exam
  - At check in, the minor candidate must present a valid student ID as a form of identification
  - During the PSI check-in process, the candidate's guardian must also present a valid ID and must provide verbal consent during the PSI check-in process.

Exams may be administered to citizens of a sanctioned country listed below PROVIDED the citizens are tested OUTSIDE the sanctioned country and their exam registration and current ID show an address OUTSIDE the sanctioned country.

- Cuba
  - Iran
  - Syria
  - Sudan
  - North Korea
  - Crimea Region of Ukraine
- 

## How long will the exam take?

Candidates are allowed 3 hours to complete the CFCD Exam.

---

## **What score is needed to pass the exam?**

For the CFCD Exam, a score of 80% or above must be earned to pass.

---

## **How is my exam scored?**

Exams are scored automatically, usually within 24 hours of completion.

Results will be emailed within 36 hours from the time that the Exam was completed.

---

## **What language(s) is the exam offered In?**

The CFCD Exam is only available in English.

---

## **How long is my certification valid for?**

Certifications awarded on or after September 05, 2019 will expire 36 months from the date that the Program certification requirements are met by a candidate, all other CFCD Certifications will expire 24 months from the date that the Program certification requirements are met.

Certificants must meet renewal requirements prior to the expiration date of their current Certification in order to maintain active Certification. If Certification renewal requirements are not completed before the expiration date, Certification will be revoked.

---

## **How do I renew my certification?**

Candidates have the option to retake and pass the exam to renew their certification.

Certification Renewal must be completed prior to the certification expiration date.

The renewed certification will be valid for a further 3 years effective from the date the exam is passed.

---

## **How do I get additional exam-related questions answered?**

If you need additional help, please login with your LF Account to

<https://trainingsupport.linuxfoundation.org> and use the search bar to find an answer to

your question, or select your request type from the categories provided..

# Important Instructions: CFCD

## Exam Details

- The exam is delivered online and consists of 10 performance-based tasks, where you will use the CLI to interact with a Cloud Foundry environment, and 10 multiple choice questions.
- Candidates have 3 hours to complete the CFCD exam.
- The exam requires use of the Cloud Foundry CLI in the provided browser based terminal to execute, and no Cloud Foundry UI should be used to complete the exam.
- The exam is proctored remotely via streaming audio, video, and screen sharing feeds.
- Results will be emailed 36 hours from the time that the exam is completed.

## System Requirements to take the exam

Exams are delivered online and Candidates must provide their own computer with:

- Current version of Chrome or Chromium
  - you don't need to install a virtual machine, use a client machine, or anything beyond a Chrome or Chromium browser
  - Make sure you have third party cookies turned on for the duration of the exam.
- Reliable internet access
  - Ensure others on the same internet connection are not performing activities that use excessive bandwidth (i.e. holding conference calls, streaming content, gaming, etc.)
  - A wired connection is often more stable and robust than a wireless connection
  - Turn off bandwidth-intensive services (e.g. file sync, dropbox, BitTorrent)
- Microphone
  - Please check to make sure it is working before you start your exam session.
- Webcam
  - Ensure the webcam is capable of being moved as the proctor may ask you to pan your surroundings to check for potential violations of exam policy.
  - Try holding up your ID while viewing your webcam feed to ensure your placement and resolution are sufficient for the person viewing your feed to read your ID.

- If you will be testing from an employer-provide ISP or will use an employer provided machine, please ensure that streaming will be allowed using WebRTC.

Candidates should run the [PSI Online System Security Check](#) to verify that their machine meets the technical requirements for taking a proctored exam.

## Acceptable Testing Location

Below are the expectations for an acceptable testing location::

- Clutter-free work area
  - No objects such as paper, writing implements, electronic devices, or other objects on top of surface
  - No objects such as paper, trash bins, or other objects below the testing surface
- Clear walls
  - No paper/print outs hanging on walls
  - Paintings and other wall décor is acceptable
  - Candidates will be asked to remove non-décor items prior to the exam being released
- Lighting
  - Space must be well lit so that proctor is able to see candidate's face, hands, and surrounding work area
  - No bright lights or windows behind the examinee
- Other
  - Candidate must remain within the camera frame during the examination
  - Space must be private where there is no excessive noise. Public spaces such as coffee shops, stores, open office environments, etc. are not allowed.

## ID Requirements to take the Exam

- Candidates are required to provide a non-expired Primary ID that contains Candidate's photograph, signature and full name (see acceptable forms of ID in the table below)
- The name on your Primary ID **must exactly match** [the verified name](#) on your exam checklist.
- If the Candidate's full name on their Primary ID contains non-latin characters, then the Candidate must ALSO provide a non-expired Secondary ID containing their full name in

Latin Characters and signature, OR a notarized English translation of their Primary ID along with the non-latin character Primary ID

Primary ID (non-expired and including photograph and signature)	Secondary ID (non-expired and including signature with Candidate name in Latin characters)
Passport	
Government-issued driver's license/permit	
Government-Issued local language ID (with photo and signature)	Debit (ATM) Card
National Identity card	Credit Card
State or province-issued identity card	Health Insurance Card
住民基本台帳 (Basic resident register with Photo) or マイナンバーカード (My number card)	U.S. Social Security Card
	Japanese Health Insurance Card

#### Additional Allowances:

- Some government issued ID such as a passport, driver's license, military ID or state/country card may be a biometric type and may or may not contain a signature. In these cases Primary ID will be accepted without a signature on condition that you also present a Secondary ID which does contain your signature (e.g. bank, credit or debit card)
- For candidates testing in Japan, a Driver's License (with name and recent recognizable photo) is acceptable as a primary ID as long as it is accompanied with a Japanese health insurance card (健康保険証). In Japan, the Japanese health insurance card (健康保険証) is an acceptable form of secondary ID

## Sanctioned Countries

Exams may be administered to citizens of a sanctioned country listed below PROVIDED the citizens are tested OUTSIDE the sanctioned country and their exam registration and current ID show an address OUTSIDE the sanctioned country.

- Cuba
- Iran
- Syria
- Sudan
- North Korea
- Crimea Region of Ukraine

## Editors

There is a small need to edit simple text files on the exam. You should be able to create a file, edit text, save the file and exit the editor. You should not need any more advanced capabilities. It may be helpful to familiarize yourself with one of the editors available in the linux terminal. You only need to be comfortable with one, not all three. There are many tutorials available for each editor, such as:

- Emacs: <https://www.gnu.org/software/emacs/tour/index.html>
- VI: <http://heather.cs.ucdavis.edu/~matloff/UnixAndC/Editors/Vlntro.html>
- Nano: <https://www.howtogeek.com/howto/42980/the-beginners-guide-to-nano-the-linux-command-line-text-editor/>

## Spaces

On the exam, you will have access to a single org in a Cloud Foundry Instance. There will be a space for each performance based task in this org. It is your responsibility to manage the orgs and spaces you are targeted to. Don't forget to target the correct space before starting a performance based task.

## Resources Allowed

Candidates may use their Chrome or Chromium browser to open one additional tab in order to:

(a) access the following assets for reference during the exam:

- [docs.cloudfoundry.org](https://docs.cloudfoundry.org)
- [apidocs.cloudfoundry.org](https://apidocs.cloudfoundry.org)

- [v3-apidocs.cloudfoundry.org](https://v3-apidocs.cloudfoundry.org)
- [plugins.cloudfoundry.org](https://plugins.cloudfoundry.org)

(b) access applications in the following domain deployed during the exam as part of completing performance based items:

- [de.a9sapp.eu](https://de.a9sapp.eu)

No other tabs may be opened and no other sites may be navigated to.

The allowed sites above may contain links that point to external sites. It is the responsibility of the candidate not to click on any links that cause them to navigate to a domain that is not allowed.

## Additional Resources

If you cannot find an answer to your question in the Candidate Handbook or FAQ, you may contact Customer Support at [certificationsupport@linuxfoundation.org](mailto:certificationsupport@linuxfoundation.org).

# Important Instructions: CHFA and CHSA

## Exam Details

- The exams are delivered online and consist of performance-based tasks (problems) to be solved on the command line running Linux.
  - The exams consist of between 16-26 performance-based tasks.
  - Candidates have 2 hours to complete the exam.
  - The exams are proctored remotely via streaming audio, video, and screen sharing feeds.
  - Results will be emailed 36 hours from the time that the exam is completed.
- 

## System Requirements to take the exam

Exams are delivered online and Candidates must provide their own computer with:

- Current version of Chrome or Chromium
  - you don't need to install a virtual machine, use a client machine, or anything beyond a Chrome or Chromium browser.
  - Make sure you have third party cookies turned on for the duration of the exam.
- Reliable internet access
  - Ensure others on the same internet connection are not performing activities that use excessive bandwidth (i.e. holding conference calls, streaming content, gaming, etc.)
  - A wired connection is often more stable and robust than a wireless connection
  - Turn off bandwidth-intensive services (e.g. file sync, dropbox, BitTorrent)
- Microphone
  - Please check to make sure it is working before you start your exam session.
- Webcam
  - Ensure the webcam is capable of being moved as the proctor may ask you to pan your surroundings to check for potential violations of exam policy.
  - Try holding up your ID while viewing your webcam feed to ensure your placement and resolution are sufficient for the person viewing your feed to read your ID.

- If you will be testing from an employer-provide ISP or will use an employer provided machine, please ensure that streaming will be allowed using WebRTC.

Candidates should run the [compatibility check tool](#) to verify that their hardware meets the minimum requirements.

---

## Acceptable Testing Location

Below are the expectations for an acceptable testing location:

- Clutter-free work area
  - No objects such as paper, writing implements, electronic devices, or other objects on top of surface.
  - No objects such as paper, trash bins, or other objects below the testing surface.
- Clear walls
  - No paper/print outs hanging on walls.
  - Paintings and other wall décor is acceptable.
  - Candidates will be asked to remove non-décor items prior to the exam being released.
- Lighting
  - Space must be well lit so that proctor is able to see candidate's face, hands, and surrounding work area.
  - No bright lights or windows behind the examinee.
- Other
  - Candidate must remain within the camera frame during the examination.
  - Space must be private where there is no excessive noise. Public spaces such as coffee shops, stores, open office environments, etc. are not allowed.

Please see the [Linux Foundation Certification Exams: Candidate Handbook](#) for additional information covering policies, procedures and rules during the exam.

---

## ID Requirements to take the Exam

- Candidates are required to provide a non-expired Primary ID that contains Candidate's photograph, signature and full name (see acceptable forms of ID in the table below)
- The name on your Primary ID **must exactly match** [the verified name](#) on your exam checklist.
- If the Candidate's full name on their Primary ID contains non-latin characters, then the Candidate must ALSO provide a non-expired Secondary ID containing their full name in Latin Characters and signature, OR a notarized English translation of their Primary ID along with the non-latin character Primary ID

<b>Primary ID</b> <i>(non-expired and including photograph and signature)</i>	<b>Secondary ID</b> <i>(non-expired and including signature with Candidate name in Latin characters)</i>
Passport	Debit (ATM) Card
Government-issued driver's license/permit Government-Issued local language ID (with photo and signature)	Credit Card
National Identity card	Health Insurance Card
State or province-issued identity card	U.S. Social Security Card
住民基本台帳 (Basic resident register with Photo) or マイナンバーカード (My number card)	Employee ID Card
	Student ID Card
	Japanese Health Insurance Card

#### Additional Allowances:

- Some government issued ID such as a passport, driver's license, military ID or state/country card may be a biometric type and may or may not contain a signature. In these cases Primary ID will be accepted without a signature on condition that you also present a Secondary ID which does contain your signature (e.g. bank, credit or debit card)
- For candidates testing in Japan, a Driver's License (with name and recent recognizable photo) is acceptable as a primary ID as long as it is accompanied with a Japanese health insurance card (健康保険証). In Japan, the Japanese health insurance card (健康保険証) is an

acceptable form of secondary ID

- Minors, between the age of 16-18, are permitted to take an online proctored exam with PSI, provided they complete the following requirements:
    - A Parent/Guardian must complete the [Parental Release for Testing of Minors](#) form, and submit it to [trainingsupport.linuxfoundation.org](mailto:trainingsupport.linuxfoundation.org), at least 2 weeks prior to the scheduled date of the exam
    - At check in, the minor candidate must present a valid student ID as a form of identification
    - During the PSI check-in process, the candidate's guardian must also present a valid ID and must provide verbal consent during the PSI check-in process.
- 

## Sanctioned Countries

Exams may be administered to citizens of a sanctioned country listed below PROVIDED the citizens are tested OUTSIDE the sanctioned country and their exam registration and current ID show an address OUTSIDE the sanctioned country.

- Cuba
  - Iran
  - Syria
  - Sudan
  - North Korea
  - Crimea Region of Ukraine
- 

## Resources allowed during exam for CHSA and CHFA

## CHSA

- Candidates may use their Chrome or Chromium browser to open one additional tab in order to access assets at <https://sawtooth.hyperledger.org/docs/core/releases/1.0.5/> and its subdomains. No other tabs may be opened and no other sites may be navigated to.  
*The allowed site above may contain links that point to external sites. It is the responsibility of the candidate not to click on any links that cause them to navigate to a domain that is not allowed.*
- Please see the [Candidate Handbook](#) for additional information covering policies, procedures and rules during the exam.
- Answers to Frequently Asked Questions (FAQ) can be [found here](#).

## CHFA

- Candidates may use their Chrome or Chromium browser to open one additional tab in order to access assets at <https://hyperledger-fabric.readthedocs.io/en/release-1.4/> and its subdomains , and <https://hyperledger-fabric-ca.readthedocs.io/en/release-1.4/> and its subdomains. No other tabs may be opened and no other sites may be navigated to.  
*The allowed site above may contain links that point to external sites. It is the responsibility of the candidate not to click on any links that cause them to navigate to a domain that is not allowed.*
- Please see the [Candidate Handbook](#) for additional information covering policies, procedures and rules during the exam.
- Answers to Frequently Asked Questions (FAQ) can be found [here](#).
- If you cannot find an answer to your question in the [Candidate Handbook](#) or [FAQ](#), you may contact Customer Support at [certificationsupport@hyperledger.org](mailto:certificationsupport@hyperledger.org).

# Technical Instructions

You may access these instructions at any time while taking the exam by typing 'man If\_exam'.

1. Root privileges can be obtained by running 'sudo -i'.
2. You should avoid rebooting node-1, as the supporting infrastructure will take around 15 minutes to start, and stabilize. You are free to reboot any node other than node-1 at any time.
3. Do not stop or tamper with the certerminal or sshd configuration and process on node-1 as this will END YOUR EXAM SESSION.
4. Do not block incoming ports 8080/tcp, 4505/tcp and 4506/tcp. This includes firewall rules that are found within the distribution's default firewall configuration files as well as interactive firewall commands.
5. Use Ctrl+Alt+W instead of Ctrl+W.  
Ctrl+W is a keyboard shortcut that will close the current tab in Google Chrome.
6. Ctrl+C and Ctrl+V are not supported in your exam terminal.  
For Linux: select text for copy and middle button for paste (or both left and right simultaneously if you have no middle button).  
For Mac: ⌘+C to copy and ⌘+V to paste.  
For Windows: Ctrl+Insert to copy and Shift+Insert to paste.
7. Installation of services and applications included in this exam may require modification of system security policies to successfully complete.
8. Only a single terminal console is available during the exam. Terminal multiplexers such as GNU Screen and tmux can be used to create virtual consoles.
9. To change font size in the terminal please use the native Chrome keys: Ctrl and '+' or Ctrl and '-'.
10. You should avoid changing the locale of the system during your exam.
11. You should not manipulate the firewall of node-1, or tamper with any of the running lxd or dnsmasq processes.

---

## Environment Details for CHSA and CHFA

- Each question on this exam must be completed on a designated Sawtooth node.
- This exam comprises several single, two and three-node Sawtooth networks, with each peer running on separate machines.
- At the start of each task, you will be directed to which Sawtooth node(s) you should *ssh* to in order to complete the task .
- You can *ssh* to a Sawtooth node with a command such as: *ssh sawadm@<nodename>*
- You can *ssh* between machines in a network comprising more than one node, unless where otherwise noted.
- The *sawadm* user should be used for all tasks, unless otherwise indicated.
- You can assume elevated privileges on any node by issuing the following command: *sudo -i*
- You must return to the base node (hostname *node-1*) after completing each task.
- The exam is based on Sawtooth v1.0.5.

- Each task on this exam must be completed on a designated Fabric node, most of which run Fabric under *docker/docker-compose*.
- *Most* of the networks are based off of *byfn* with configuration files located under */srv/fabric-samples*, unless otherwise noted in the instructions.
- For most tasks, you can connect to the CLI node with a command such as: *docker exec -it cli bash*.
- At the start of each task, you will be directed to which Fabric node you should *ssh* to in order to complete the task.
- You can *ssh* to a Fabric node with a command such as:  
*ssh fabadm@<nodename>*
- The *fabadm* user should be used for all tasks, unless otherwise indicated.
- You can assume elevated privileges on any node by issuing the following command: *sudo -i*
- You can also use *sudo* to execute commands with elevated privileges at any time.
- You must return to the base node (hostname *node-1*) after completing each task.
- The exam is based on Fabric v1.4 **Fabric v2.2 coming in May 2021**

# Important Instructions: CHFD

## Exam Details

- The exams are delivered online and consist of performance-based tasks (problems) to be solved with a web IDE and the command line.
  - The exams consist of between 16-20 performance-based tasks.
  - Candidates have 2 hours to complete the exam.
  - The exams are proctored remotely via streaming audio, video, and screen sharing feeds.
  - Results will be emailed 36 hours from the time that the exam is completed.
- 

## System Requirements to take the exam

Exams are delivered online and Candidates must provide their own computer with:

- Current version of Chrome or Chromium
  - you don't need to install a virtual machine, use a client machine, or anything beyond a Chrome or Chromium browser.
  - Make sure you have third party cookies turned on for the duration of the exam.
- Reliable internet access
  - Ensure others on the same internet connection are not performing activities that use excessive bandwidth (i.e. holding conference calls, streaming content, gaming, etc.)
  - A wired connection is often more stable and robust than a wireless connection
  - Turn off bandwidth-intensive services (e.g. file sync, dropbox, BitTorrent)
- Microphone
  - Please check to make sure it is working before you start your exam session.
- Webcam
  - Ensure the webcam is capable of being moved as the proctor may ask you to pan your surroundings to check for potential violations of exam policy.
  - Try holding up your ID while viewing your webcam feed to ensure your placement and resolution are sufficient for the person viewing your feed to read your ID.

- If you will be testing from an employer-provide ISP or will use an employer provided machine, please ensure that streaming will be allowed using WebRTC.

Candidates should run the [compatibility check tool](#) to verify that their hardware meets the minimum requirements.

---

## Acceptable Testing Location

Below are the expectations for an acceptable testing location:

- Clutter-free work area
  - No objects such as paper, writing implements, electronic devices, or other objects on top of surface.
  - No objects such as paper, trash bins, or other objects below the testing surface.
- Clear walls
  - No paper/print outs hanging on walls.
  - Paintings and other wall décor is acceptable.
  - Candidates will be asked to remove non-décor items prior to the exam being released.
- Lighting
  - Space must be well lit so that proctor is able to see candidate's face, hands, and surrounding work area.
  - No bright lights or windows behind the examinee.
- Other
  - Candidate must remain within the camera frame during the examination.
  - Space must be private where there is no excessive noise. Public spaces such as coffee shops, stores, open office environments, etc. are not allowed.

Please see the [Linux Foundation Certification Exams: Candidate Handbook](#) for additional information covering policies, procedures and rules during the exam.

---

## ID Requirements to take the Exam

- Candidates are required to provide a non-expired Primary ID that contains Candidate's photograph, signature and full name (see acceptable forms of ID in the table below)
- The name on your Primary ID **must exactly match** [the verified name](#) on your exam checklist.
- If the Candidate's full name on their Primary ID contains non-latin characters, then the Candidate must ALSO provide a non-expired Secondary ID containing their full name in Latin Characters and signature, OR a notarized English translation of their Primary ID along with the non-latin character Primary ID

<b>Primary ID</b> <i>(non-expired and including photograph and signature)</i>	<b>Secondary ID</b> <i>(non-expired and including signature with Candidate name in Latin characters)</i>
Passport	Debit (ATM) Card
Government-issued driver's license/permit Government-Issued local language ID (with photo and signature)	Credit Card
National Identity card	Health Insurance Card
State or province-issued identity card	U.S. Social Security Card
住民基本台帳 (Basic resident register with Photo) or マイナンバーカード (My number card)	Employee ID Card
	Student ID Card
	Japanese Health Insurance Card

#### Additional Allowances:

- Some government issued ID such as a passport, driver's license, military ID or state/country card may be a biometric type and may or may not contain a signature. In these cases Primary ID will be accepted without a signature on condition that you also present a Secondary ID which does contain your signature (e.g. bank, credit or debit card)
- For candidates testing in Japan, a Driver's License (with name and recent recognizable photo) is acceptable as a primary ID as long as it is accompanied with a Japanese health insurance card (健康保険証). In Japan, the Japanese health insurance card (健康保険証) is an

acceptable form of secondary ID

- Minors, between the age of 16-18, are permitted to take an online proctored exam with PSI, provided they complete the following requirements:
    - A Parent/Guardian must complete the [Parental Release for Testing of Minors](#) form, and submit it to [trainingsupport.linuxfoundation.org](mailto:trainingsupport.linuxfoundation.org), at least 2 weeks prior to the scheduled date of the exam
    - At check in, the minor candidate must present a valid student ID as a form of identification
    - During the PSI check-in process, the candidate's guardian must also present a valid ID and must provide verbal consent during the PSI check-in process.
- 

## Sanctioned Countries

Exams may be administered to citizens of a sanctioned country listed below PROVIDED the citizens are tested OUTSIDE the sanctioned country and their exam registration and current ID show an address OUTSIDE the sanctioned country.

- Cuba
  - Iran
  - Syria
  - Sudan
  - North Korea
  - Crimea Region of Ukraine
- 

## Resources Allowed During the CHFD Exam

Candidate may only use their Chrome or Chromium browser to open one additional tab in order to access technical documentation related to:

- Hyperledger Fabric
- Node.js/JavaScript

Note that the following sites are explicitly prohibited and accessing these sites will lead to immediate termination of the exam without warning.

- Stack Overflow (stackoverflow.com)
- Stack Exchange (stackexchange.com)
- Server Fault (serverfault.com)
- Super User (superuser.com)

Other similar discussion forum sites may also lead to immediate termination of the exam.

Please see the [Candidate Handbook](#) for additional information covering policies, procedures and rules during the exam.

Answers to Frequently Asked Questions (FAQ) can be found here.

#### CHFD Environment

- Every task runs in its own (Linux) context. Contexts are similar to virtual machines.
- Every context has its own separate `Docker engine/Fabric network` as well as its own copy of the [Fabric Samples](#) repository.
  - Changes made to one task's `Fabric network` are not visible in other tasks and vice-versa!
  - Changes made to one task's `Fabric Samples` are not available in other tasks and vice-versa!
- When switching between tasks, the Web IDE will switch context with the task and automatically open the task's `Fabric Samples`.  
Please allow the web IDE some seconds to complete the switch.
- When using the web IDE's integrated terminal, the shell will start in the task's context, ready to interact with the task's `Fabric network`.
- The task's `Fabric Samples` are located at `/fabric-samples`
- The exam is based on Hyperledger Fabric v2.2
- The Hyperledger Fabric SDK for Node.js runs on Node.js v12.

## Web IDE

- Every tasks needs to be completed in the provided web IDE
- The provided web IDE is a web version of [VSCode](#)
  - Not all `vscode` features are available in the web version!  
All features you need to complete the tasks are provided
  - Your keyboard layout should be automatically detected, but should that not be the case there is a keyboard layout selector at the bottom right of the web IDE's status bar

# Frequently Asked Questions: CHFA, CHSA, CHFD

## How much does the exam cost?

The exam costs \$300 USD.

---

## How is the exam proctored?

The certification exam is proctored remotely via streaming audio, video, and screen sharing feeds. The screensharing feed allows proctors to view candidates' desktops (including all monitors). The audio, video, and screen sharing feeds will be stored for a limited period of time in the event that there is a subsequent need for review.

---

## What are the system requirements to take the exam?

Exams are delivered online and Candidates must provide their own computer with:

- Current version of Chrome or Chromium
  - you don't need to install a virtual machine, use a client machine, or anything beyond a Chrome or Chromium browser
  - Make sure you have third party cookies turned on for the duration of the exam.
- Reliable internet access
  - Ensure others on the same internet connection are not performing activities that use excessive bandwidth (i.e. holding conference calls, streaming content, gaming, etc.)
  - A wired connection is often more stable and robust than a wireless connection
  - Turn off bandwidth-intensive services (e.g. file sync, dropbox, BitTorrent)
- Microphone
  - Please check to make sure it is working before you start your exam session.
- Webcam

- Ensure the webcam is capable of being moved as the proctor may ask you to pan your surroundings to check for potential violations of exam policy.
- Try holding up your ID while viewing your webcam feed to ensure your placement and resolution are sufficient for the person viewing your feed to read your ID.
- If you will be testing from an employer-provide ISP or will use an employer provided machine, please ensure that streaming will be allowed using WebRTC.

Candidates should run the [compatibility check tool](#) to verify that their hardware meets the minimum requirements.

---

## **What are the Testing Environment requirements to take the exam?**

Below are the expectations for an acceptable testing environment:

- Clutter-free work area
  - No objects such as paper, writing implements, electronic devices, or other objects on top of surface
  - No objects such as paper, trash bins, or other objects below the testing surface
- Clear walls
  - No paper/print outs hanging on walls
  - Paintings and other wall décor is acceptable
  - Candidates will be asked to remove non-décor items prior to the exam being released
- Lighting
  - Space must be well lit so that proctor is able to see candidate's face, hands, and surrounding work area
  - No bright lights or windows behind the examinee
- Other
  - Candidate must remain within the camera frame during the examination
  - Space must be private where there is no excessive noise. Public spaces such as coffee shops, stores, open office environments, etc. are not allowed.

# What are the ID requirements to take the exam?

Candidates are required to provide a non-expired Primary ID that contains Candidate's photograph, signature and full name (see acceptable forms of ID in the table below).

The name on your Primary ID **must exactly match** [the verified name](#) on your exam checklist.

If the Candidate's full name on their Primary ID contains non-latin characters, then the Candidate must ALSO provide a non-expired Secondary ID containing their full name in Latin Characters and signature, OR a notarized English translation of their Primary ID along with the non-latin character Primary ID.

Primary ID (non-expired and including photograph and signature)	Secondary ID (non-expired and including signature with Candidate name in Latin characters)
Passport	Debit (ATM) Card
Government-issued driver's license/permit	Credit Card
Government-Issued local language ID (with photo and signature)	Health Insurance Card
National Identity card	U.S. Social Security Card
State or province-issued identity card	Employee ID Card
住民基本台帳 (Basic resident register with Photo) or マイナンバーカード (My number card)	Student ID Card
	Japanese Health Insurance Card

## Additional Allowances:

- Some government issued ID such as a passport, driver's license, military ID or state/country card may be a biometric type and may or may not contain a signature. In these cases Primary ID will be accepted without a signature on condition that you also present a Secondary ID which does contain your signature (e.g. bank, credit or debit card)

- For candidates testing in Japan, a Driver's License (with name and recent recognizable photo) is acceptable as a primary ID as long as it is accompanied with a Japanese health insurance card (健康保険証). In Japan, the Japanese health insurance card (健康保険証) is an acceptable form of secondary ID.
- Minors, between the age of 16-18, are permitted to take an online proctored exam with PSI, provided they complete the following requirements:
  - A Parent/Guardian must complete the [Parental Release for Testing of Minors](#) form, and submit it to [Customer Support](#), at least 2 weeks prior to the scheduled date of the exam
  - At check in, the minor candidate must present a valid student ID as a form of identification
  - During the PSI check-in process, the candidate's guardian must also present a valid ID and must provide verbal consent during the PSI check-in process.

---

## Sanctioned Countries

Exams may be administered to citizens of a sanctioned country listed below PROVIDED the citizens are tested OUTSIDE the sanctioned country and their exam registration and current ID show an address OUTSIDE the sanctioned country.

- Cuba
- Iran
- Syria
- Sudan
- North Korea
- Crimea Region of Ukraine

---

## How long will the exam take?

Candidates are allowed 2 hours to complete the CHFA, CHSA and CHFD Exams.

---

## **What score is needed to pass the exam?**

For the CHSA Exam, a score of 65% or above must be earned to pass.

For the CHFA Exam, a score of 62% or above must be earned to pass.

For the CHFD Exam, a score of 65% or above must be earned to pass.

---

## **How is my exam scored?**

Exams are scored automatically, usually within 24 hours of completion. Results will be emailed within 36 hours from the time that the Exam was completed.

Exams are graded for results. There may be more than one way to perform a task on an Exam and unless otherwise specified, the candidate can pick any available path to complete the task as long as it produces the correct result.

---

## **What resources am I allowed to access during my exam?**

The following tools and resources are allowed during the exam as long as they are used by candidates to work independently on exam tasks (i.e. not used for 3rd party assistance or research) and are accessed from within the Linux server terminal on which the Exam is delivered. During the exam, candidates may:

- review the Exam content instructions that are presented in the command line terminal.
- type “man lf\_exam” in the command line to view instructions again at any time during the Exam.
- use their Chrome or Chromium browser to open one additional tab in order to access assets at <https://hyperledger-fabric.readthedocs.io/en/release-1.4/> and its subdomains, and <https://hyperledger-fabric-ca.readthedocs.io/en/release-1.4/> and its subdomains.

No other tabs may be opened and no other sites may be navigated to.

*The allowed site above may contain links that point to external sites. It is the responsibility of the candidate not to click any links to navigate to a domain that is not allowed.*

The following tools and resources are allowed during the exam as long as they are used by candidates to work independently on exam tasks (i.e. not used for 3rd party assistance or research) and are accessed from within the Linux server terminal on which the Exam is delivered. During the exam, candidates may

- review the Exam content instructions that are presented in the command line terminal.
- type “man lf\_exam” in the command line to view instructions again at any time during the Exam.
- use their Chrome or Chromium browser to open one additional tab in order to access assets at <https://sawtooth.hyperledger.org/docs/core/releases/1.0.5/> and its subdomains.

No other tabs may be opened and no other sites may be navigated to.

*The allowed site above may contain links that point to external sites. It is the responsibility of the candidate not to click any links to navigate to a domain that is not allowed.*

Candidate may only use their Chrome or Chromium browser to open one additional tab in order to access technical documentation related to:

- Hyperledger Fabric
- Node.js/JavaScript

Note that the following sites are explicitly prohibited and accessing these sites will lead to immediate termination of the exam without warning.

- Stack Overflow ([stackoverflow.com](https://stackoverflow.com))
- Stack Exchange ([stackexchange.com](https://stackexchange.com))
- Server Fault ([serverfault.com](https://serverfault.com))
- Super User ([superuser.com](https://superuser.com))

Other similar discussion forum sites may also lead to immediate termination of the exam.

## **What application version is running in the Exam Environment?**

The CHSA exam environment is currently running on Sawtooth v1.0.5.

The CHFA exam environment is currently running Fabric v1.4 **Coming in May 2021: Fabric v2.2**

The CHFD exam environment is currently running Fabric v2.2

## **What language(s) is the exam offered In?**

The CHSA and CHFA Exam is currently available in English.

The CHFD Exam is currently available in English and Japanese.

---

## **How long is my certification valid for?**

CHSA, CHFA, and CHFD Certifications are valid for 3 years.

---

## **How do I renew my certification?**

Candidates have the option to retake and pass the exam to renew their certification.

Certification Renewal must be completed prior to the certification expiration date.

The renewed certification will be valid for a further 3 years effective from the date the exam is passed.

# Frequently Asked Questions: JSNAD and JSNSD

## What is the OpenJS Node.js Application Developer (JSNAD) Certification?

The [OpenJS Node.js Application Developer certification](#) is designed for anyone looking to demonstrate competence with Node.js to create applications of any kind, with a focus on knowledge of Node.js core APIs

---

## What is the OpenJS Node.js Services Developer (JSNSD) Certification?

The [OpenJS Node.js Services Developer certification](#) is designed for anyone looking to demonstrate competence in creating RESTful Node.js Servers and Services (or Microservices) with a particular emphasis on security practices.

---

## How much does the exam cost?

The exam costs \$300 USD.

---

## How is the exam proctored?

The certification exam is proctored remotely via streaming audio, video, and screen sharing feeds. The screensharing feed allows proctors to view candidates' desktops (including all monitors). The audio, video, and screen sharing feeds will be stored for a limited period of time in the event that there is a subsequent need for review.

---

## **What are the system requirements to take the exam?**

Exams are delivered online and Candidates must provide their own computer with:

- Current version of Chrome or Chromium
  - you don't need to install a virtual machine, use a client machine, or anything beyond a Chrome or Chromium browser
  - Make sure you have third party cookies turned on for the duration of the exam.
- Reliable internet access
  - Ensure others on the same internet connection are not performing activities that use excessive bandwidth (i.e. holding conference calls, streaming content, gaming, etc.)
  - A wired connection is often more stable and robust than a wireless connection
  - Turn off bandwidth-intensive services (e.g. file sync, dropbox, BitTorrent)
- Microphone
  - Please check to make sure it is working before you start your exam session.
- Webcam
  - Ensure the webcam is capable of being moved as the proctor may ask you to pan your surroundings to check for potential violations of exam policy.
  - Try holding up your ID while viewing your webcam feed to ensure your placement and resolution are sufficient for the person viewing your feed to read your ID.
  - If you will be testing from an employer-provide ISP or will use an employer provided machine, please ensure that streaming will be allowed using WebRTC.

Candidates should run the [compatibility check tool](#) to verify that their hardware meets the minimum requirements.

---

## **What are the Testing Environment requirements to take the exam?**

Below are the expectations for an acceptable testing environment:

- Clutter-free work area

- No objects such as paper, writing implements, electronic devices, or other objects on top of surface
  - No objects such as paper, trash bins, or other objects below the testing surface
  - Clear walls
    - No paper/print outs hanging on walls
    - Paintings and other wall décor is acceptable
    - Candidates will be asked to remove non-décor items prior to the exam being released
  - Lighting
    - Space must be well lit so that proctor is able to see candidate's face, hands, and surrounding work area
    - No bright lights or windows behind the examinee
  - Other
    - Candidate must remain within the camera frame during the examination
    - Space must be private where there is no excessive noise. Public spaces such as coffee shops, stores, open office environments, etc. are not allowed.
- 

## What are the ID requirements to take the exam?

Candidates are required to provide a non-expired Primary ID that contains Candidate's photograph, signature and full name (see acceptable forms of ID in the table below).

The name on your Primary ID **must exactly match** [the verified name](#) on your exam checklist.

If the Candidate's full name on their Primary ID contains non-latin characters, then the Candidate must ALSO provide a non-expired Secondary ID containing their full name in Latin Characters and signature, OR a notarized English translation of their Primary ID along with the non-latin character Primary ID.



<b>Primary ID (non-expired and including photograph and signature)</b>	<b>Secondary ID (non-expired and including signature with Candidate name in Latin characters)</b>
Passport	Debit (ATM) Card
Government-issued driver's license/permit	Credit Card
Government-issued local language ID (with photo and signature)	Health Insurance Card
National Identity card	U.S. Social Security Card
State or province-issued identity card	Employee ID Card
住民基本台帳 (Basic resident register with Photo) or マイナンバーカード (My number card)	Student ID Card
	Japanese Health Insurance Card

#### Additional Allowances:

- Some government issued ID such as a passport, driver's license, military ID or state/country card may be a biometric type and may or may not contain a signature. In these cases Primary ID will be accepted without a signature on condition that you also present a Secondary ID which does contain your signature (e.g. bank, credit or debit card)
- For candidates testing in Japan, a Driver's License (with name and recent recognizable photo) is acceptable as a primary ID as long as it is accompanied with a Japanese health insurance card (健康保険証). In Japan, the Japanese health insurance card (健康保険証) is an acceptable form of secondary ID.
- Minors, between the age of 16-18, are permitted to take an online proctored exam with PSI, provided they complete the following requirements:
  - A Parent/Guardian must complete the [Parental Release for Testing of Minors](#) form, and submit it to [Customer Support](#), at least 2 weeks prior to the scheduled date of the exam
  - At check in, the minor candidate must present a valid student ID as a form of identification

- During the PSI check-in process, the candidate's guardian must also present a valid ID and must provide verbal consent during the PSI check-in process.
- 

## **Sanctioned Countries**

Exams may be administered to citizens of a sanctioned country listed below PROVIDED the citizens are tested OUTSIDE the sanctioned country and their exam registration and current ID show an address OUTSIDE the sanctioned country.

- Cuba
  - Iran
  - Syria
  - Sudan
  - North Korea
  - Crimea Region of Ukraine
- 

## **How long will the exam take?**

Candidates are allowed 2 hours to complete the JSNAD and JSNSD Exams.

---

## **What score is needed to pass the exam?**

For the JSNAD Exam, a score of 68% or above must be earned to pass.

For the JSNSD Exam, a score of 68% or above must be earned to pass.

---

## **How is my exam scored?**

Exams are scored automatically, usually within 24 hours of completion. Results will be emailed within 36 hours from the time that the Exam was completed.

Exams are graded for results. There may be more than one way to perform a task on an Exam and unless otherwise specified, the candidate can pick any available path to complete the task as long as it produces the correct result.

---

## What resources am I allowed to access during my exam?

During the exam, candidates may only use the browser within the VM to access Node.js or JavaScript documentation and the documentation of any Node.js ecosystem modules used. Stack Overflow ([stackoverflow.com](https://stackoverflow.com)), Stack Exchange ([stackexchange.com](https://stackexchange.com)), Server Fault ([serverfault.com](https://serverfault.com)) or Super User ([superuser.com](https://superuser.com)) will not be accessible to the candidate during the exam.

---

## What application version is running in the Exam Environment?

The exam environment is currently running Node.js Version 14 LTS.

As the current Long Term Support version changes the environment will be updated to the latest LTS.

See <https://github.com/nodejs/Release> for information on the Node.js LTS schedule.

---

## What language(s) is the exam offered In?

Exam tasks are available in English and Chinese \*\*

\*\*To register for the **Chinese Only** exam content, and to obtain the benefit of a Chinese speaking proctor you must register for:

[OpenJS Node.js Application Developer \(China Version\) \(JSNAD\)](#)

[OpenJS Node.js Services Developer \(China Version\) \(JSNSD\)](#)

---

## How long is my certification valid for?

JSNAD and JSNSD Certifications are valid for 3 years.

---

## How do I renew my certification?

Candidates have the option to retake and pass the exam to renew their certification.

Certification Renewal must be completed prior to the certification expiration date.

The renewed certification will be valid for a further 3 years effective from the date the exam is passed.

---

## Is there training to prepare for the certification exam?

### JSNAD:

The Linux Foundation offers [The Node.js Application Development](#) (LFW211) a self-paced E-Learning course to improve your versatility in creating various types of Node.js applications. Covering a broad set of use cases and using Node.js core APIs with selected ecosystem libraries, this course prepares you for JSNAD Certification Exam.

The following resources are considered *Recommended Reading* for the JSNAD Exam:

- Node.js 14.x Documentation, <https://nodejs.org/docs/latest-v14.x/api/index.html>
- Node Cookbook, 3rd Edition, Chapters 1, 2, 3, 4 and 9
- <https://nodeschool.io/>

### JSNSD:

The Linux Foundation offers [Node.js Services Development](#) (LFW212) a self-paced E-Learning course that provides a deep dive into Node core HTTP clients and servers, web servers, RESTful services and web security essentials.

With a major focus on Node.js services and security this content is an essential counterpart to the Node.js Application Development (LFW211) course, and will prepare you for the OpenJS Node.js Services Developer (JSNSD) exam.

The following resources are considered *Recommended Reading* for the JSNSD Exam:

- Node.js 14.x Documentation, <https://nodejs.org/docs/latest-v14.x/api/index.html>
  - Node Cookbook, 3rd Edition, Chapters 5, 7, 8, 10
  - Documentation of any preferred web frameworks
  - <https://nodeschool.io/>
- 

## How was the exam content created?

The Linux Foundation and OpenJS Foundation worked with industry experts to craft relevant and challenging exams. These experts include folks from NearForm and Node Source, as well as members of the Node.js community and ecosystem

---

## What is the recourse for someone who attributes exam failure to the testing environment?

We understand that taking the exams via remote desktop and a new platform environment may cause a lag time for some, however there are trade offs needed to offer this exam remotely.

We will continually monitor and seek to improve the testing experience over time. When eligible, we do offer free retakes for those who do not pass the first time, regardless of why.

---

## How do I get additional exam-related questions answered?

If you need additional help, please login with your LF Account to <https://trainingsupport.linuxfoundation.org> and use the search bar to find an answer to

your question, or select your request type from the categories provided.

# Important Instructions: JSNAD and JSNSD

## Exam Details

- This exam is an online, proctored, performance-based test that requires implementing multiple solutions within a Remote Desktop Linux environment.
  - The exams are expected to take 2 hours to complete
  - The exams are proctored remotely via streaming audio, video, and screen sharing feeds.
- 

## What You Need For Your Exam

- Candidates must provide their own front-end hardware to take the exams, including a computer with:
    - current version of Chrome or Chromium browser (*beta versions are not recommended*)
    - reliable internet access (*turn off services that may run in the background like BitTorrent or Google Drive*)
    - webcam
    - microphone
  - Candidates should run the [WebDelivery Compatibility](#) provided by the Exam Proctoring Partner, to verify that their hardware meets the minimum requirements.
- 

## ID Requirements to take the Exam

- Candidates are required to provide a non-expired Primary ID that contains Candidate's photograph, signature and full name (see acceptable forms of ID in the table below)
- The name on your Primary ID **must exactly match** [the verified name](#) on your exam checklist.
- If the Candidate's full name on their Primary ID contains non-latin characters, then the Candidate must ALSO provide a non-expired Secondary ID containing their full name in

Latin Characters and signature, OR a notarized English translation of their Primary ID along with the non-latin character Primary ID

<b>Primary ID (non-expired and including photograph and signature)</b>	<b>Secondary ID (non-expired and including signature with Candidate name in Latin characters)</b>
Passport	Debit (ATM) Card
Government-issued driver's license/permit Government-Issued local language ID (plastic card with photo and signature)	Credit Card
National Identity card	Health Insurance Card
State or province-issued identity card	U.S. Social Security Card
住民基本台帳 (Basic resident register with Photo) or マイナンバーカード (My number card)	Employee ID Card
	Student ID Card
	Japanese Health Insurance Card

#### Additional Allowances:

- Some government issued ID such as a passport, driver's license, military ID or state/country card may be a biometric type and may or may not contain a signature. In these cases Primary ID will be accepted without a signature on condition that you also present a Secondary ID which does contain your signature (e.g. bank, credit or debit card)
- For candidates testing in Japan, a Driver's License (with name and recent recognizable photo) is acceptable as a primary ID as long as it is accompanied with a Japanese health insurance card (健康保険証). In Japan, the Japanese health insurance card (健康保険証) is an acceptable form of secondary ID.
- Minors, between the age of 16-18, are permitted to take an online proctored exam with PSI, provided they complete the following requirements:

- A Parent/Guardian must complete the [Parental Release for Testing of Minors](#) form, and submit it to [customer support](#), at least 2 weeks prior to the scheduled date of the exam
  - At check in, the minor candidate must present a valid student ID as a form of identification
  - During the PSI check-in process, the candidate's guardian must also present a valid ID and must provide verbal consent during the PSI check-in process.
- 

## Sanctioned Countries

Exams may be administered to citizens of a sanctioned country listed below PROVIDED the citizens are tested OUTSIDE the sanctioned country and their exam registration and current ID show an address OUTSIDE the sanctioned country.

- Cuba
  - Iran
  - Syria
  - Sudan
  - North Korea
  - Crimea Region of Ukraine
- 

## Resources allowed during exam

During the exam, Candidates may only use the browser within the VM to access Node.js or JavaScript documentation and the documentation of any Node.js ecosystem modules used. Stack Overflow ( [www.stackoverflow.com](http://www.stackoverflow.com) ), Stack Exchange ( [www.stackexchange.com](http://www.stackexchange.com) ), Server Fault ( [www.serverfault.com](http://www.serverfault.com) ) or Super User ( [www.superuser.com](http://www.superuser.com) ) will not be accessible to the candidate during the exam.

---

## Exam Environment (workstation)

A dedicated environment will be provisioned for your assessment, which will include the following nodes and software:

- Workstation (the VM) is CENTOS7 based
- GNOME Desktop Environment
- Code Editing Software (VSCode, Vim, WebStorm (*sponsored by JetBrains*) )
- Node.js Version 14 LTS\*

The terminal provided by the environment is Gnome Terminal, but the Visual Studio Code or WebStorm Terminal may also be used.

All questions may be answered with Node.js core API's or with any Node.js libraries/frameworks of the candidates choosing

\*As the current Long Term Support version changes the environment will be updated to the latest LTS.

See <https://github.com/nodejs/Release> for information on the Node.js LTS schedule.

---

## International Keyboards

Some keys on international keyboards may not function as expected.

Please note the following:

- To access keys modified by using the ALT key, use the ALT key located on the right side of your keyboard.
- The ALT or ALT GR key located on the left side of your keyboard will not function as a modifier key.
- An on-screen virtual keyboard is provided for any special characters that may be needed. To access the on-screen keyboard, double-click the "Virtual Keyboard" Icon on the desktop.

## FAQ

Answers to Frequently Asked Questions (FAQ) can be found [here](#).

# Frequently Asked Questions: COP

## What is the Certified ONAP Professional (COP) Certification?

The Certified ONAP Professional (COP) certification is designed for anyone looking to demonstrate competence in designing and running services on an existing ONAP platform.

A successful COP candidate must demonstrate the ability to onboard VNFs, design and deploy network services and configure VNFs. Additionally, candidates must have baseline understanding of closed-loop automation in terms of closed-loop design and runtime behavior. A candidate will also possess elementary troubleshooting capabilities to find issues with network services and closed-loops. The exam expects baseline understanding of the underlying cloud platform (e.g. Kubernetes and OpenStack) and minimal familiarity with modeling languages (e.g. Heat and TOSCA)

---

## How much does the exam cost?

The exam costs \$300 USD.

---

## How is the exam proctored?

The certification exam is proctored remotely via streaming audio, video, and screen sharing feeds. The screensharing feed allows proctors to view candidates' desktops (including all monitors). The audio, video, and screen sharing feeds will be stored for a limited period of time in the event that there is a subsequent need for review.

---

## What are the system requirements to take the exam?

Exams are delivered online and Candidates must provide their own computer with:

- Current version of Chrome or Chromium
  - you don't need to install a virtual machine, use a client machine, or anything beyond a Chrome or Chromium browser
  - Make sure you have third party cookies turned on for the duration of the exam.
- Reliable internet access
  - Ensure others on the same internet connection are not performing activities that use excessive bandwidth (i.e. holding conference calls, streaming content, gaming, etc.)
  - A wired connection is often more stable and robust than a wireless connection
  - Turn off bandwidth-intensive services (e.g. file sync, dropbox, BitTorrent)
- Microphone
  - Please check to make sure it is working before you start your exam session.
- Webcam
  - Ensure the webcam is capable of being moved as the proctor may ask you to pan your surroundings to check for potential violations of exam policy.
  - Try holding up your ID while viewing your webcam feed to ensure your placement and resolution are sufficient for the person viewing your feed to read your ID.
  - If you will be testing from an employer-provide ISP or will use an employer provided machine, please ensure that streaming will be allowed using WebRTC.

Candidates should run the [compatibility check tool](#) to verify that their hardware meets the minimum requirements.

---

## What are the Testing Environment requirements to take the exam?

Below are the expectations for an acceptable testing environment:

- Clutter-free work area
  - No objects such as paper, writing implements, electronic devices, or other objects on top of surface
  - No objects such as paper, trash bins, or other objects below the testing surface
- Clear walls

- No paper/print outs hanging on walls
- Paintings and other wall décor is acceptable
- Candidates will be asked to remove non-décor items prior to the exam being released
- Lighting
  - Space must be well lit so that proctor is able to see candidate's face, hands, and surrounding work area
  - No bright lights or windows behind the examinee
- Other
  - Candidate must remain within the camera frame during the examination
  - Space must be private where there is no excessive noise. Public spaces such as coffee shops, stores, open office environments, etc. are not allowed.

---

## What are the ID requirements to take the exam?

Candidates are required to provide a non-expired Primary ID that contains Candidate's photograph, signature and full name (see acceptable forms of ID in the table below).

The name on your Primary ID **must exactly match** [the verified name](#) on your exam checklist.

If the Candidate's full name on their Primary ID contains non-latin characters, then the Candidate must ALSO provide a non-expired Secondary ID containing their full name in Latin Characters and signature, OR a notarized English translation of their Primary ID along with the non-latin character Primary ID.

**Primary ID**  
(non-expired and including photograph and signature)

**Secondary ID**  
(non-expired and  
including signature  
with Candidate name in  
Latin characters)

---

Passport	Debit (ATM) Card
Government-issued driver's license/permit	Credit Card
Government-issued local language ID (with photo and signature)	Health Insurance Card
National Identity card	U.S. Social Security Card
State or province-issued identity card	Employee ID Card
住民基本台帳 (Basic resident register with Photo) or マイナンバーカード (My number card)	Student ID Card Japanese Health Insurance Card

---

#### Additional Allowances:

- Some government issued ID such as a passport, driver's license, military ID or state/country card may be a biometric type and may or may not contain a signature. In these cases Primary ID will be accepted without a signature on condition that you also present a Secondary ID which does contain your signature (e.g. bank, credit or debit card)
- For candidates testing in Japan, a Driver's License (with name and recent recognizable photo) is acceptable as a primary ID as long as it is accompanied with a Japanese health insurance card (健康保険証). In Japan, the Japanese health insurance card (健康保険証) is an acceptable form of secondary ID.
- Minors, between the age of 16-18, are permitted to take an online proctored exam with PSI, provided they complete the following requirements:
  - A Parent/Guardian must complete the [Parental Release for Testing of Minors](#) form, and submit it to [trainingsupport.linuxfoundation.org](mailto:trainingsupport.linuxfoundation.org), at least 2 weeks prior to the scheduled date of the exam
  - At check in, the minor candidate must present a valid student ID as a form of identification
  - During the PSI check-in process, the candidate's guardian must also present a valid ID and must provide verbal consent during the PSI check-in process.

## **Sanctioned Countries**

Exams may be administered to citizens of a sanctioned country listed below PROVIDED the citizens are tested OUTSIDE the sanctioned country and their exam registration and current ID show an address OUTSIDE the sanctioned country.

- Cuba
  - Iran
  - Syria
  - Sudan
  - North Korea
  - Crimea Region of Ukraine
- 

## **How long will the exam take?**

Candidates are allowed 3 hours to complete the COP Exam.

---

## **What score is needed to pass the exam?**

For the COP Exam, a score of 60% or above must be earned to pass.

---

## **How is my exam scored?**

Exams are scored automatically, usually within 24 hours of completion. Results will be emailed within 36 hours from the time that the Exam was completed.

Exams are graded for results. There may be more than one way to perform a task on an Exam and unless otherwise specified, the candidate can pick any available path to complete the task as long as it produces the correct result.

---

## **What resources am I allowed to access during my exam?**

During the exam, candidates may only use the browser within the VM to open ONAP Documentation located at: <https://docs.onap.org/en/dublin/> and its subdomains.

The allowed site above may contain links that point to external sites. *It is the responsibility of the candidate not to click any links to navigate to a domain that is not allowed.*

Candidates will be permitted to access sites included in the exam task instructions or any other referenced link within the exam environment.

Candidates are not permitted to open additional browsers outside of the exam environment.

---

## **What application version is running in the Exam Environment?**

The exam environment is currently running ONAP Dublin v4.0.0

---

## **What language(s) is the exam offered In?**

Exam tasks are only available in English.

---

## **How long is my certification valid for?**

COP Certifications are valid for 3 years.

---

## **How do I renew my certification?**

Candidates have the option to retake and pass the exam to renew their certification.

Certification Renewal must be completed prior to the certification expiration date.

The renewed certification will be valid for a further 3 years effective from the date the exam is passed.

---

## Is there training to prepare for the certification exam?

The Linux Foundation offers E-Learning courses to provides conceptual and hands-on skills around ONAP, including the basics of Network Function Virtualization (NFV); an overview of ONAP architecture, subprojects, and use case blueprints; ONAP modeling overview; interfacing with ONAP; network service design, orchestration, and lifecycle management; the ONAP Policy framework; closed control loop automation; and troubleshooting.

- [Introduction to ONAP: Complete Network Automation](#)
  - [ONAP Essentials](#)
- 

## How was the exam content created?

The Linux Foundation worked with ONAP expert volunteers from Ericsson Tech, Mahindra, Huawei, Intel, Vodafone, and China Mobile to identify the core domains and the critical skills, knowledge and competencies applicable to this certification.

---

## How do I get additional exam-related questions answered?

If you need additional help, please login with your LF Account to <https://trainingsupport.linuxfoundation.org> and use the search bar to find an answer to your question, or select your request type from the categories provided.

# Important Instructions: COP

## Exam Details

- This exam is an online, proctored, performance-based test that requires implementing multiple solutions within a Remote Desktop Linux environment.
  - The exams consist of between 15-20 performance-based tasks.
  - Candidates have 3 hours to complete the exam.
  - The exams are proctored remotely via streaming audio, video, and screen sharing feeds.
  - Results will be emailed 36 hours from the time that the exam is completed.
- 

## System Requirements to take the exam

Exams are delivered online and Candidates must provide their own computer with:

- Current version of Chrome or Chromium
  - you don't need to install a virtual machine, use a client machine, or anything beyond a Chrome or Chromium browser.
  - Make sure you have third party cookies turned on for the duration of the exam.
- Reliable internet access
  - Ensure others on the same internet connection are not performing activities that use excessive bandwidth (i.e. holding conference calls, streaming content, gaming, etc.)
  - A wired connection is often more stable and robust than a wireless connection
  - Turn off bandwidth-intensive services (e.g. file sync, dropbox, BitTorrent)
- Microphone
  - Please check to make sure it is working before you start your exam session.
- Webcam
  - Ensure the webcam is capable of being moved as the proctor may ask you to pan your surroundings to check for potential violations of exam policy.
  - Try holding up your ID while viewing your webcam feed to ensure your placement and resolution are sufficient for the person viewing your feed to read your ID.

- If you will be testing from an employer-provide ISP or will use an employer provided machine, please ensure that streaming will be allowed using WebRTC.

Candidates should run the [compatibility check tool](#) to verify that their hardware meets the minimum requirements.

---

## Acceptable Testing Location

Below are the expectations for an acceptable testing location:

- Clutter-free work area
  - No objects such as paper, writing implements, electronic devices, or other objects on top of surface.
  - No objects such as paper, trash bins, or other objects below the testing surface.
- Clear walls
  - No paper/print outs hanging on walls.
  - Paintings and other wall décor is acceptable.
  - Candidates will be asked to remove non-décor items prior to the exam being released.
- Lighting
  - Space must be well lit so that proctor is able to see candidate's face, hands, and surrounding work area.
  - No bright lights or windows behind the examinee.
- Other
  - Candidate must remain within the camera frame during the examination.
  - Space must be private where there is no excessive noise. Public spaces such as coffee shops, stores, open office environments, etc. are not allowed.

Please see the [Linux Foundation Certification Exams: Candidate Handbook](#) for additional information covering policies, procedures and rules during the exam.

---

## ID Requirements to take the Exam

- Candidates are required to provide a non-expired Primary ID that contains Candidate's photograph, signature and full name (see acceptable forms of ID in the table below)
- The name on your Primary ID **must exactly match** [the verified name](#) on your exam checklist.
- If the Candidate's full name on their Primary ID contains non-latin characters, then the Candidate must ALSO provide a non-expired Secondary ID containing their full name in Latin Characters and signature, OR a notarized English translation of their Primary ID along with the non-latin character Primary ID

<b>Primary ID</b> <i>(non-expired and including photograph and signature)</i>	<b>Secondary ID</b> <i>(non-expired and including signature with Candidate name in Latin characters)</i>
Passport	Debit (ATM) Card
Government-issued driver's license/permit Government-Issued local language ID (with photo and signature)	Credit Card
National Identity card	Health Insurance Card
State or province-issued identity card	U.S. Social Security Card
住民基本台帳 (Basic resident register with Photo) or マイナンバーカード (My number card)	Employee ID Card
	Student ID Card
	Japanese Health Insurance Card

#### Additional Allowances:

- Some government issued ID such as a passport, driver's license, military ID or state/country card may be a biometric type and may or may not contain a signature. In these cases Primary ID will be accepted without a signature on condition that you also present a Secondary ID which does contain your signature (e.g. bank, credit or debit card)
- For candidates testing in Japan, a Driver's License (with name and recent recognizable photo) is acceptable as a primary ID as long as it is accompanied with a Japanese health insurance card (健康保険証). In Japan, the Japanese health insurance card (健康保険証) is an

acceptable form of secondary ID

- Minors, between the age of 16-18, are permitted to take an online proctored exam with PSI, provided they complete the following requirements:
    - A Parent/Guardian must complete the [Parental Release for Testing of Minors](#) form, and submit it to [trainingsupport.linuxfoundation.org](https://trainingsupport.linuxfoundation.org), at least 2 weeks prior to the scheduled date of the exam
    - At check in, the minor candidate must present a valid student ID as a form of identification
    - During the PSI check-in process, the candidate's guardian must also present a valid ID and must provide verbal consent during the PSI check-in process.
- 

## Sanctioned Countries

Exams may be administered to citizens of a sanctioned country listed below PROVIDED the citizens are tested OUTSIDE the sanctioned country and their exam registration and current ID show an address OUTSIDE the sanctioned country.

- Cuba
  - Iran
  - Syria
  - Sudan
  - North Korea
  - Crimea Region of Ukraine
- 

## Resources allowed during exam for COP

During the exam, candidates may only use the browser within the VM to open ONAP Documentation located at: <https://docs.onap.org/en/dublin/> and its subdomains.

The allowed site above may contain links that point to external sites. *It is the responsibility of the candidate not to click any links to navigate to a domain that is not allowed.*

Candidates will be permitted to access sites included in the exam task instructions or any other referenced link within the exam environment.

Candidates are not permitted to open additional browsers outside of the exam environment.

---

## **Exam Environment (workstation)**

A dedicated environment will be provisioned for your assessment, which will include a desktop workstation (VM Based on Ubuntu 18.04) and nested virtualized infrastructure to support a limited ONAP deployment.

The following software and services will also be installed:

Software/Services Name	Version
Kubernetes	v1.13.5-rancher1-2
Docker	18.09.5
Helm	2.12.3
OpenStack AIO	03adca70dcc2c8bef597e2f2dd12bbeb7d88720 (stable/pike)
ONAP Operations Manager	git/4.0.0-ONAP
Postman	7.1.0

In addition to the GUI the following terminal access may be available:

- KubeCTL
  - Openstack CLI
-

## **International Keyboards**

Some keys on international keyboards may not function as expected.

Please note the following:

- To access keys modified by using the ALT key, use the ALT key located on the right side of your keyboard.
- The ALT or ALT GR key located on the left side of your keyboard will not function as a modifier key.
- An on-screen virtual keyboard is provided for any special characters that may be needed. To access the on-screen keyboard, double-click the “Virtual Keyboard” Icon on the desktop.

# Untitled