Linux Foundation Training & Certification

April 2020

Agenda

1. The Linux Foundation (TLF or The LF)
2. Demand for Talent
3. Training and Certification
4. Why Certify with LFCS?

Close with Q&A

Intro to the Linux Foundation

Linux Foundation History

- The Linux Foundation was started in 2000 under the Open Source Development Labs (OSDL) and became the organization it is today when OSDL merged with the Free Standards Group (FSG) in 2007.
- The Linux Foundation is home to the largest open source projects in the world and sponsors the work of Linux creator Linus Torvalds.
- The Linux Foundation is supported by leading technology firms and developers from around the world.
- The Linux Foundation provides infrastructure, legal management, events, training and certification, for open source projects in order grow and sustain them.

The Linux Foundation is creating the greatest shared technology investment in history by enabling open source collaboration across companies, developers, and users.

We are the organization of choice to build ecosystems that accelerate open technology development and commercial adoption.

THE LINUX FOUNDATION

Neutral home for the world's most important projects

We host over 200 of the most critical open source projects accelerating open technology and commercial adoption. Our projects harness the power of open source development to fuel innovation at unmatched speed and scale.

www.linuxfoundation.org/projects/

Linux has become the most important software in the world

99%	82%	2nd	90%	90%	62%	#1
Supercomputer Market	Smartphone Market Share	To Windows in Enterprise	Mainframe Customers	Public Cloud Workload	Embedded Systems Market	Internet Client

Every market Linux has entered it eventually dominates

The Linux Foundation is a critical part of the tech ecosystem

1600+	100%	40,000+	200+	$15.7B
Members From 41 Countries	of Fortune 100 Tech & Telecom	Developers Contributing Code	Open Source Projects	Shared Value

We have seen unprecedented growth in our projects

THE LINUX FOUNDATION

Today the Linux Foundation is Much More than Linux…

Security

We securing the internet as home to world's largest certificate authority securing100M web sites.

Let's Encrypt

Networking

We are home to 8 of the top 10 open source networking projects in the world backed by the majority of global network providers.

ONAP

OPEN DAYLIGHT

LF NETWORKING

Cloud

We are creating a portability layer for the cloud, driving standards and developing reference tools for cloud native development.

kubernetes

CLOUD FOUNDRY

CLOUD NATIVE COMPUTING FOUNDATION

Automotive

Our Automotive Grade Linux platform is backed by 12 automakers and is either in or slated for production in millions of vehicles worldwide.

AUTOMOTIVE GRADE LINUX

Blockchain

We are creating a permanent, secure distributed ledger that makes it easier to create cost-efficient, decentralized business networks.

HYPERLEDGER

Edge/Embedded

We are creating projects used in building the majority of embedded Linux distributions and rationalizing edge computing.

Zephyr™

yocto PROJECT

Web

We are providing the application development framework for next generation web, mobile, serverless, and IoT applications.

node JS

JS Foundation

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LF EDGE

ACADEMY OF MOTION PICTURE

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Our Role Has Been Recognized Alongside Tech Titans

- "This category looks at those companies, associations and projects that have inspired development and IT shops to build upon the work they have created, and recognizes them for their leadership as we begin to create a digital world we only could have dreamed about a generation ago.
- SD Times Influencers: Apple, Facebook, Google, IBM, Intel, Microsoft, GitHub, Netflix, Red Hat, Slack, *The Linux Foundation*

In 2019, The Linux Foundation is the Only Non-Profit Recognized For Three Consecutive Years For Its Critical Role in the Industry

Demand for Open Source talent is strong

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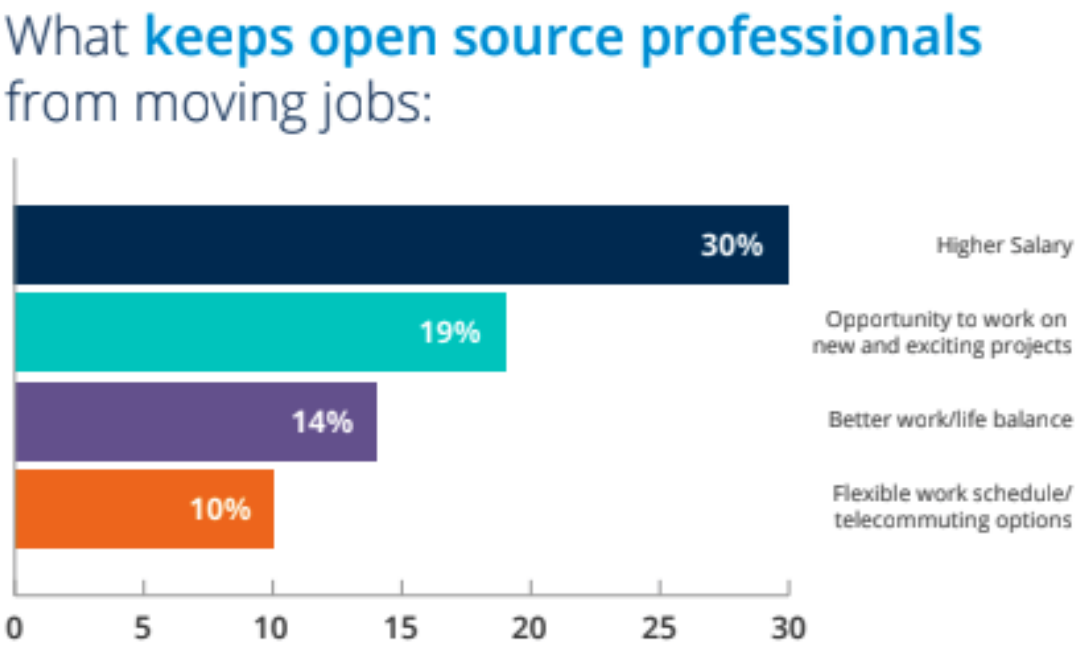
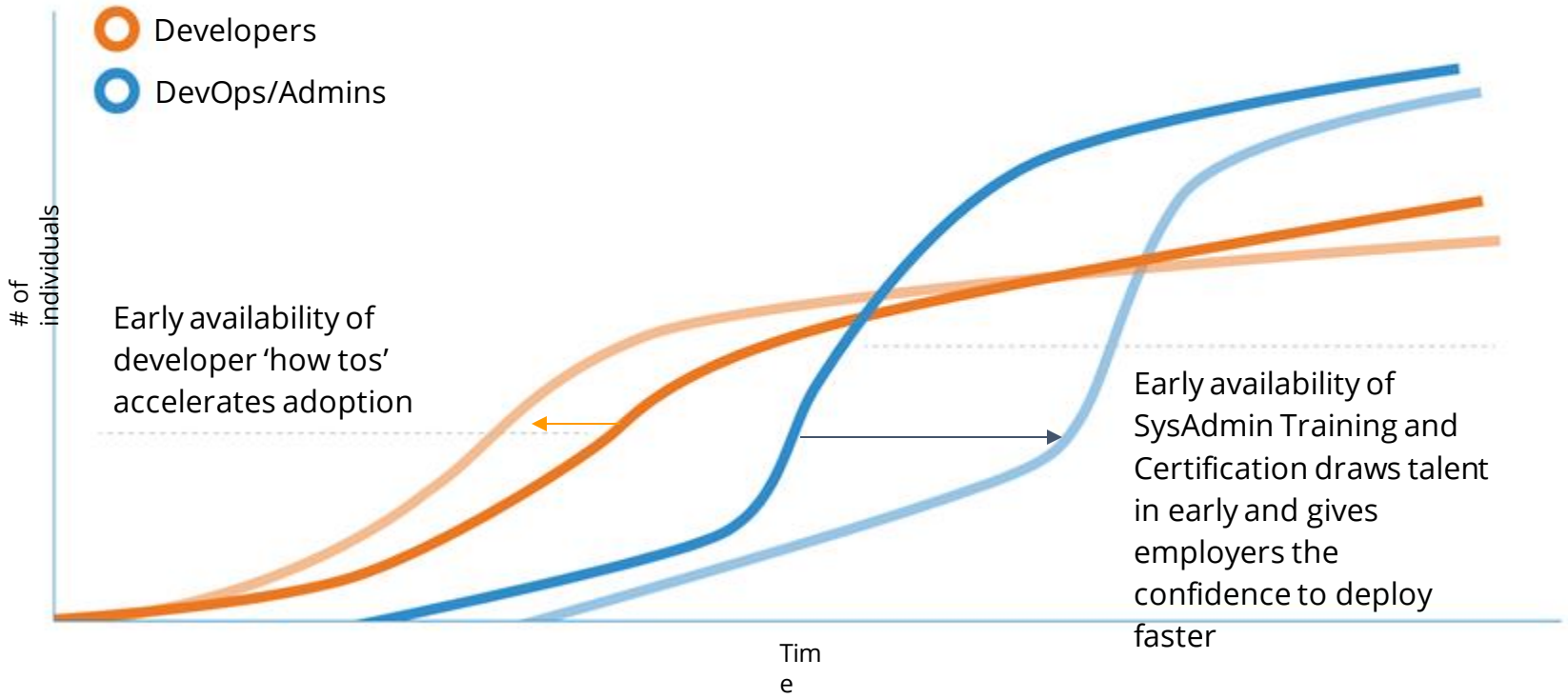
linuxfoundation.org/publications/open-source-jobs-report-2018/

Earnings and perks

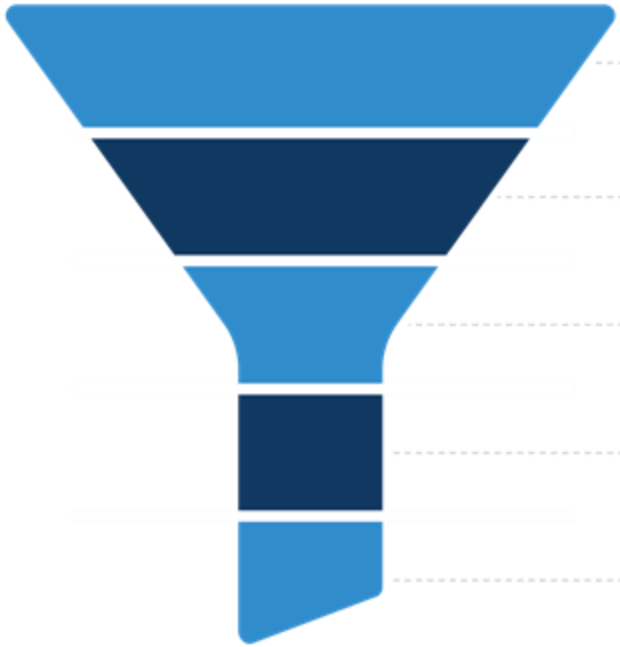


The Linux Foundation Training and Certification

Early Training/Certification Accelerates Path



The Linux Foundation has a platform to build a talent funnel



Massive Open Online Courses edX

Self-Paced E-Learning

Classroom-Led

Certification Testing

Custom Instruction

Our training platform accelerates our communities

1,500,000+
Educated Through Free Courses

500
Annual Scholarships for Students

40,000+
Professionals Certified

65+
Training Courses Offered

Open source leaders from 4,000 companies and 85 countries

LF Training Capabilities

Experienced staff in place to quickly develop and deploy high quality online, self-paced content (with Instructor led as an option): both Free and Paid

Working with LF (and non-LF) hosted projects to accelerate talent development:

kubernetes

CLOUDFOUNDRY

Example User Training Courses

- Introduction to Linux (free through EdX)
- Introduction to Cloud Infrastructure Technologies (free through EdX)
- Essentials of System Administration
- Linux Networking and Administration
- Linux Security Fundamentals
- OpenStack Administration Fundamentals
- Open Source Virtualization

Example Developer Training

- Compliance Basics for Developers
- Introduction to Linux, Open Source Development, and GIT
- Developing Applications For Linux
- Inside Android: An Intro to Android Internals
- Linux Kernel Internals and Development
- Developing Linux Device Drivers
- Linux Kernel Debugging and Security
- Embedded Linux Development

We have a cutting edge user and developer catalog

Training from the developers of open source technology

- Linux Internals
- Open Source Developer Compliance
- Systems Administration
- Security
- Networking
- Cloud

We are growing fast for the most up-to-date courses visit – tlftraining.org

LF Certification Capabilities

- 100% online, performance-based exam platform
- Deep track record - exams for multiple projects
- Experienced staff can work with experts to build and deploy exams
- Focus is on entry level Certification, allows specialized providers to thrive
- Option to bundle Certification exams with training to ensure adequate preparation

THE LINUX FOUNDATION

The Linux Foundation Certified System Administrator LFCS

LFCS

- Early/Beginning of your career in IT
- `C:¥ sudo :- DANGER! become superuser!`
- Validation for Employers
- No Pre-requisites
- Training is available to help prepare

At a Glance:

Exam Delivery

Online

Duration of Exam

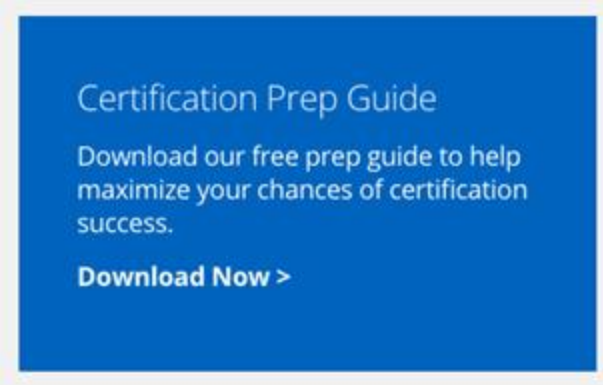
2 Hours

Certification Valid

2 Years

Includes

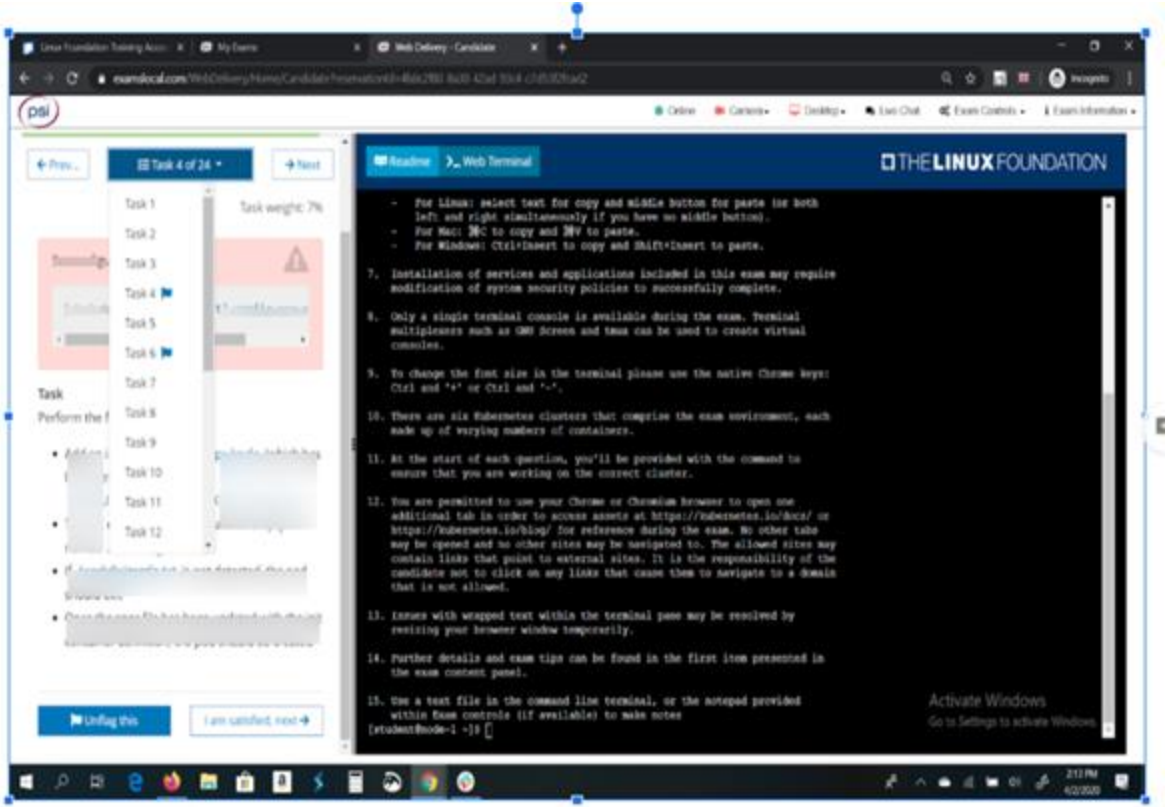
- 12 Month Exam Eligibility
- Free Exam Retake
- PDF Certificate



Other resources provided:

- Linux Foundation Certification FAQ
- Linux Foundation Certification Policies & Candidate Handbook

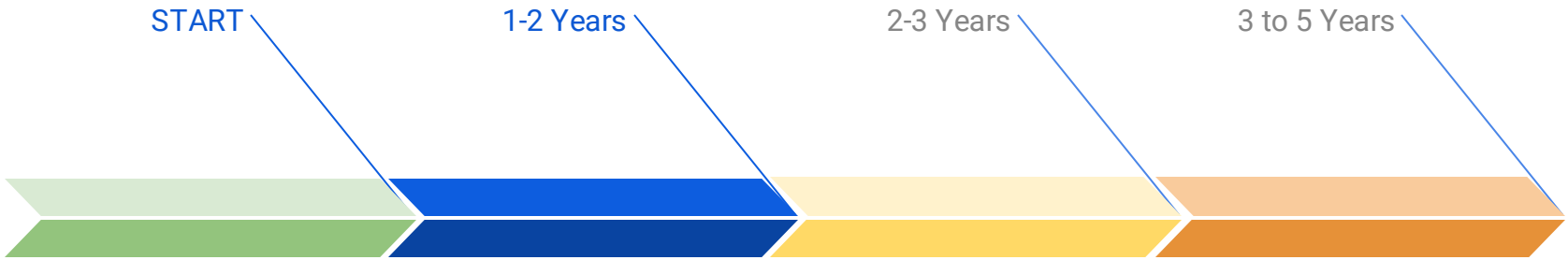
The exam environment



Importance of certification

- certifications vs. on-the- job experience
- Statistically shown to be useful to your career
- Go with the Trend
- Employers increasingly seek vendor neutrality in their training providers (enterprise rely on several flavors of Linux, not just one)

Why Choose LFCS Certification?



Junior System Admin

LFCS

Median Salary $45,000

Tech Support, System Administrator

Senior System Admin

LFCE

Median Salary $70,000

Network/Systems Engineer/Architect

Security Engineer/Manager

CEH, GSEC

Median Salary $70,000

Cyber Security Analyst

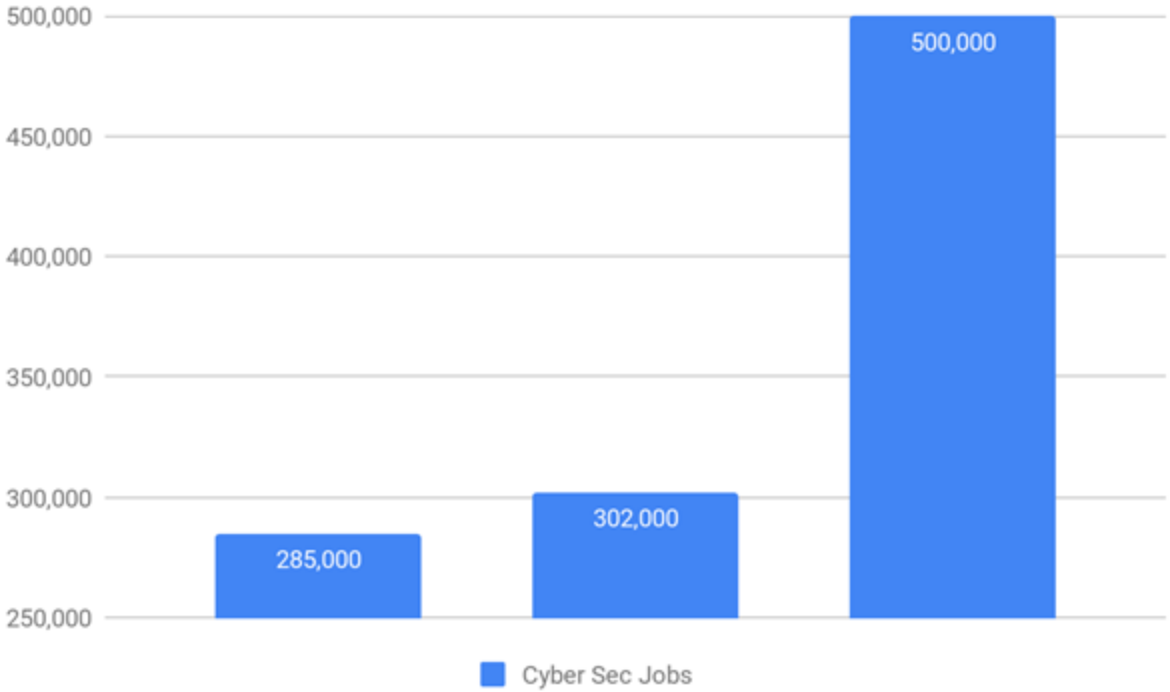
Cyber Security Engineer/Architect

CISM, CISSP

Median Salary $120,000

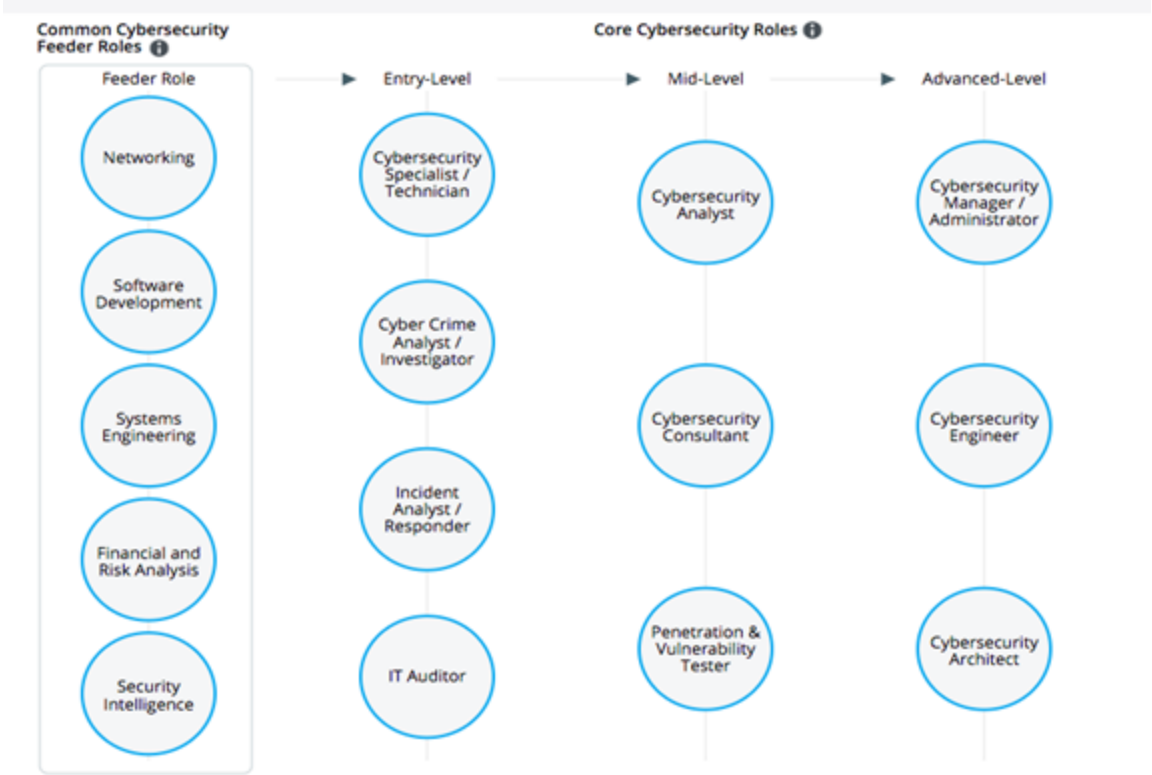
Security Engineer/Manager/ Architect

Demand for trained security experts increasing



Source: CyberSeek https://www.cyberseek.org/heatmap.html

Cyber Seek Career Pathway



Top 5 Information Security Certifications

1. CEH: Certified Ethical Hacker
2. CISM: Certified Information Security Manager
3. CompTIA Security+
4. CISSP: Certified Information Systems Security Professional
5. GSEC: SANS GIAC Security Essentials

SOURCE: Business News Daily April 2018 https://www.businessnewsdaily.com/10708-information-security-certifications.html

Blockchain is the Hottest Career of 2020

A recent study from LinkedIn found that Blockchain is the most in demand skill of 2020.

Blockchain Career Path

Level	Skills	Courses
Beginner	• Basic understanding of blockchain terminology	• LFS 170 Blockchain: Understanding Its Uses and Implications
Enthusiast	• An idea of business use cases for blockchain	• LFS171 Introduction to Hyperledger Blockchain Technologies
Junior	• Understanding of digital identity concepts • Familiarity with GitHub • Knowledge of Linux command line • Familiarity with Python	• LFS172 Introduction to Hyperledger Sovereign Identity Blockchain Solutions: Indy, Aries & Ursa • LFS173 Becoming a Hyperledger Aries Developer
Intermediate	• Programming experience with Python, JavaScript, and Golang • General familiarity with protocol buffers (protobufs) • Understand of the basics of the ZeroMQ (ZMQ) messaging library	• LFS174 Hyperledger Sawtooth for Application Developers • LFD271 Hyperledger Fabric Fundamentals
Senior	• Knowledge of bash basics • Strong knowledge of containerization and Docker • Familiarity with NoSQL databases and general understanding of CouchDB • Strong understanding of Hyperledger Fabric and Sawtooth architecture and components • Familiarity with YAML/TOML markup languages • Comprehension of traditional HTTP protocols and RESTful API design	• LFS272 Hyperledger Fabric Administration • LFS273 Hyperledger Sawtooth Administration

Your Career Path Training Gateway

System Administration

Recommended Online, Self-Paced Courses:

- LFS101 Introduction to Linux
- LFS201 Essentials of Linux System Administration
- LFS211 Linux Networking and Administration
- LFS216 Linux Security Fundamentals

Recommended Instructor-Led Training Classes:

- LFS300 Fundamentals of Linux
- LFS301 Linux for System Administrators
- LFS311 Linux for System Engineers
- LFS416 Linux Security
- LFS422 High Availability Linux Architecture
- LFS426 Linux Performance Tuning
- LFS430 Linux Enterprise Automation
- LFS462 Open Source Virtualization

DevOps/
Site Reliability

Recommended Online, Self-Paced Courses:

- LFS201 Essentials of Linux System Administration
- LFS216 Linux Security Fundamentals
- LFS261 DevOps and SRE Fundamentals: Implementing Continuous Delivery
- LFS266 DevOps for Network Engineers

Kernel Development

Recommended Online, Self-paced Courses:

- LFD102 A Beginner's Guide to Open Source Software Development
- LFD103 A Beginner's Guide to Linux Kernel Development
- LFD201 Introduction to Open Source Development, GiT and Linux

Recommended Instructor-Led Classes:

- LFD301 Introduction to Linux, Open Source Development and GiT
- LFD401 Developing Applications For Linux
- LFD420 Linux Kernel Internals and Development
- LFD430 Developing Linux Device Drivers
- LFD440 Linux Kernel Debugging and Security

Embedded Development

Recommended Instructor-Led:

- LFD301 Introduction to Linux, Open Source Development and GiT
- LFD420 Linux Kernel Internals and Development
- LFD435 Developing Embedded Linux Device Drivers
- LFD440 Linux Kernel Debugging and Security
- LFD450 Embedded Linux Development
- LFD460 Embedded Linux Development with Yocto Project

Application Development

Recommended Online, Self-Paced Courses:

- LFS174 Hyperledger Sawtooth for Application Developers
- LFD232 Cloud Foundry for Developers

Recommended Instructor-Led Classes:

- LFD301 Introduction to Linux, Open Source Development, and GiT
- LFD401 Developing Applications For Linux

Cloud & Containers

Recommended Online, Self-Paced Courses:

- LFS132 Introduction to Cloud Foundry and Cloud Native Software Architecture
- LFS141 Exploring GraphQL: A Query Language for APIs
- LFS151 Introduction to Cloud Infrastructure Technologies
- LFS158 Introduction to Kubernetes
- LFS201 Essentials of Linux System Administration
- LFS216 Linux Security Fundamentals
- LFD232 Cloud Foundry for Developers
- LFS241 Monitoring Systems and Services with Prometheus
- LFS242 Cloud Native Logging with Fluentd
- LFS253 Containers Fundamentals
- LFD254 Containers for Developers and Quality Assurance
- LFD258 Kubernetes Fundamentals

Recommended Instructor-Led Classes:

- LFS301 Linux for System Administrators
- LFS416 Linux Security

Networking

Recommended Online, Self-Paced Courses:

- LFS201 Essentials of Linux System Administration
- LFS211 Linux Networking and Administration
- LFS263 ONAP Fundamentals
- LFS264 OPNFV Fundamentals
- LFS265 Software Defined Networking Fundamentals

Recommended Instructor-Led Classes:

- LFS465 Software Defined Networking Essentials

Blockchain

Recommended Online, Self-Paced Courses:

- LFS 170 Blockchain: Understanding Its Uses and Implications
- LFS171 Introduction to Hyperledger Blockchain Technologies
- LFS172 Introduction to Hyperledger Sovereign Identity Blockchain Solutions: Indy, Aries and Ursa
- LFS174 Hyperledger Sawtooth for Application Developers
- LFD271 Hyperledger Fabric Fundamentals
- LFS272 Hyperledger Fabric Administration
- LFS273 Hyperledger Sawtooth Administration

Systems Engineering/ Architecture

Recommended Online, Self-Paced Courses:

- LFS201 Essentials of Linux System Administration
- LFS211 Linux Networking and Administration
- LFS216 Linux Security Fundamentals

Recommended Instructor-Led Classes:

- LFS311 Linux for System Engineers
- LFS422 High Availability Linux Architecture
- LFS430 Linux Enterprise Automation
- LFS462 Open Source Virtualization

Contact Us

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THE LINUX FOUNDATION

最後までご参加いただいた皆さんに特別に

4月30日まで期間延長

すべてのトレーニングと認定試験を30%割引で提供

クーポンコードANYWHERE30

12月31日まで使える

OSC参加者向けスペシャルクーポン

すべてのトレーニングと認定試験を20%割引で提供

クーポンコードOSSJP20

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