

Protect Your Data: An Introduction to Blockchain Security

GoSkills online course syllabus

Skill level

Beginner

Lessons

18

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Pre-requisites

No prior experience needed

Video duration

1h 8m

Estimated study time

1h 8m

Instructor

Taha Sajid

Introduction

1 Intro to blockchain

Blockchain is one of the most talked-about technology in the market right now.

Blockchain Security Overview

2 Fundamentals of blockchain

The amount of content available on blockchain can easily make anyone lost and confused about where to start.

3 How blockchain works

Knowing how the blockchain works will help you in exploring the use cases and opportunities.

4 Exploring blockchain benefits

Data is the new oil.

5 Inherent security qualities

Blockchain is a suite of security technologies.

Blockchain Security Variations

6 Types of blockchains

Public blockchains are the core essence of blockchain technology.

7 **Security of public blockchain**
Private blockchains bring the distributed ledger technology benefits to an enterprise.

8 **Security of private blockchain**
With consortiums, blockchain technology helps organizations to find solutions together and save time, development cost and foster adaptability.

9 **Crypto wallets and exchanges**
Wallets and exchanges allow the public to interact with blockchain technology.

Analyzing Cyber Attacks

10 **Blockchain risk ecosystem**
In order to understand gaps and challenges that blockchain brings, getting a strong grip on the architecture and different domains is important.

11 **Threat model overview**
Among many cyber attacks that have happened to date on blockchain solutions, the top ones will be discussed.

12 **Classifying risk with threat model**
For a security mitigation to be architected in blockchain solution, understanding the how of the attack is important.

13 **Crypto attacks with mitigations**
To endorse the importance of having a security solution and building the security mindset, it's important to explore recent cyber attacks.

Blockchain Security Solution

14 **Identity and access management**
In a security solution, identity and access management gives you protection from Confidentiality, integrity and non-repudiation attacks.

15 **Securing public key infrastructure**
PKI ensure that the trust between the network elements are maintained and there is no room for any intruder to sit in the middle and eavesdrop the communication.

16 **Smart contract security**
Smart contract is one of the fundamental pieces in public blockchain technology.

17 Penetration testing for blockchain

Getting all the security controls in the right place, at the right time, capturing the correct information and responding to threats as when required is what you need in your architecture.

Conclusion

18 Key takeaways

Thank you for watching this course!

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