

# GIAC Certified Intrusion Analyst Certification



## Online Course

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## Course Modules

### 1. Advanced IDS Concepts

IDS tuning methods and correlation issues.

### 2. Application Protocols

Skill relating to application layer protocol dissection and analysis.

### 3. Concepts of TCP/IP and the Link Layer

TCP/IP communications model and link layer operations.

### 4. Fragmentation

How fragmentation works, and how to identify fragmentation and fragmentation-based attacks in packet captures.

### 5. IDS Fundamentals and Network Architecture

Fundamental IDS concepts, such as network architecture options and benefits/weaknesses of common IDS systems.

### 6. Intrusion Detection System Rules

IDS rules to detect varied types of malicious activity.



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## 7. IP Headers

Dissect IP packet headers and analyze them for normal and anomalous values that may point to security issues.

## 8. IPv6

IPv6 and how it differs from IPv4.

## 9. Network Forensics and Traffic Analysis

Competence in analyzing data from multiple sources (e.g. full packet)

## 10. Packet Engineering

Relating to packet crafting and manipulation.

## 11. SiLK and Other Traffic Analysis Tools

SiLK and other tools to perform network traffic and flow analysis.

## 12. TCP

TCP protocol and the ability to discern between typical and anomalous behavior.

## 13. Tcpdump Filters

Craft tcpdump filters that match on given criteria.





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## **14. UDP and ICMP**

UDP and ICMP protocols and the ability to discern between typical and anomalous behavior.

## **15. Wireshark Fundamentals**

Wireshark to analyze typical and malicious network traffic.

The logo for Zetlan Technologies features a large, stylized, light gray letter 'Z' in the background. To the left of the 'Z', there are three light gray circles of varying sizes. Below the 'Z', the text 'Zetlan Technologies' is written in a light gray, sans-serif font.

Zetlan Technologies

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