Macrosoft

Vzdelávanie s trvalým efektom

DOCUMENT

Course syllabus

CATEGORY

Computer network, CISCO courses

TRAINING FORMAT

In Bratislava or online with a lecturer

PRICE EXCL. VAT

360,00 €

PRICE INCL. VAT

442,80 €

including 23 % VAT

Macrosoft školiace centrum
Aktuálne informácie na Macrosoft.sk

PDF SYLLABUS

Cybersecurity II. - Advanced

Clear overview of course topics, training scope and key information.

This specialized technical course focuses on network security analysis at individual layers of the OSI model. Participants will gain practical knowledge about network attacks, defense mechanisms and implementation of security solutions, especially on Cisco devices. The course combines theoretical knowledge with extensive practical exercises in a laboratory environment.

COURSE CONTENT

01 **Network Models and Attacks**

OSI & TCP/IP Security according to OSI model layers Layer 2 second layer Classification of attack types Mac address flooding VLAN hopping VLAN double tagging DHCP starvation DHCP spoofing ARP spoofing SPANNING tree attack CDP reconnaissance

02 **Designs and Network Security Solutions**

Security method: Port security Security method: DHCP snooping Dynamic ARP inspection PortFast and BPDU Guard

03 **Layer 3 Third Layer**

Basic Cisco IOS firewall: Access lists Standard Extended Recommendations NAT Static NAT Dynamic NAT PAT (NAT overload) How do NAT logic, routing and ACL work on Cisco? Advantages and disadvantages of NAT

04 **Higher-Layer Devices 4-7**

ESA WSA AAA

05 **Exercises**

Basics of working with Wireshark Sniffing CDP Sniffing TELNET Network scanning nMAP and other tools

Macrosoft

Vzdelávanie s trvalým efektom

This document serves as an informational overview of the course syllabus. Current dates, venue and availability are listed at Macrosoft.sk.

https://www.macrosoft.sk/en/courses/cybersecurity-advanced