

# Network Security and Design Summer School

Join us for an immersive and comprehensive Network Security and Design Summer School, where participants will delve into the exciting world of network security, configuration, architecture, and design. This intensive program is designed for students and professionals seeking to enhance their knowledge and skills in securing and optimizing network infrastructures.

**Course Overview:** The Network Security and Design Summer School provides a unique opportunity to explore the fundamental concepts, methodologies, and best practices in network security and design. Participants will engage in hands-on activities, practical workshops, and interactive discussions. The Network Security and Design Summer School's content is aligned with the Cisco Courses CCNA2 and CCNA3. If you succeed in passing the hands-on hackathons, you will receive Cisco certified diplomas that endorse your knowledge.

## Other Details:

- This summer school takes place in July, every **Tuesday, Wednesday and Thursday, from 11am** (exception: on week 3 will be doing Monday and Tuesday)
- Instructors: Răzvan Rughiniș and Flavia Oprea
- You need to enroll in order to participate
- If you pass the exams, you will receive CCNA2 and CCNA3 Cisco Certified diplomas
- We will offer special prizes for the best hackathon projects
- What you need to know: CCNA1 or basic networking concepts (OSI and IPv4 concepts)

|                          | Concept 1                        | Concept 2                 | Concept 3                  | Hands-on Lab                      |
|--------------------------|----------------------------------|---------------------------|----------------------------|-----------------------------------|
| <b>2nd of July, Tue</b>  | Introduction                     | Basic Switching Concepts  | Routing Concepts           | Switch Configuration              |
| <b>3rd of July, Wed</b>  | VLANs                            | Inter-VLAN Routing        | Static Routing             | VLANs + Routing                   |
| <b>4th of July, Thu</b>  | STP                              | Etherchannel              | FHRP                       | Redundancy Lab                    |
| <b>9th of July, Tue</b>  | DHCP                             | LAN Security              | LAN Security Configuration | DHCP + LAN Security Configuration |
| <b>10th of July, Wed</b> | OSPF                             | Network Security Concepts | -                          | OSPF Configuration                |
| <b>11th of July, Thu</b> | ACL                              | NAT                       | -                          | ACL + NAT Configuration           |
| <b>15th of July, Mon</b> | WAN Concepts                     | VPN and IPsec             | QoS                        | WAN + VPN Configuration           |
| <b>16th of July, Tue</b> | Network Management               | Network Virtualization    | Network Design             | Recap                             |
| <b>23rd of July, Tue</b> | Networking and Security Workshop |                           |                            |                                   |
| <b>24th of July, Wed</b> | Hackathon Day 1                  |                           |                            |                                   |
| <b>25th of July, Thu</b> | Hackathon Day 2                  |                           |                            |                                   |

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## Register for NSDSS

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