Routing Architectures and Protocols Lab (LPA)

Davide Adami
About LPA

• Teacher name: Davide Adami
  - Email: d.adami@iet.unipi.it
  - Phone: +390502217652

• Semester: First

• Exam mode: Oral

• Pre-requisites:
  - Networking fundamental
  - Understanding of destination-based, hop-by-hop IP routing in a Classless Inter-Domain Routing (CIDR) environment

• Area: Networking
Course Overview

• The course provides the basic knowledge and the key concepts to understand the functional components required to design and implement intra and inter-domain routing.

• Main theoretical and practical topics:
  - design and deployment of networks with IGP (RIP/OSPF) and EGP (BGP) routing protocols, Routing Policy, Firewall Filters, Class-of-Services, IPv6

• Traditional lectures are coupled with hands-on lectures which provides students with the possibility to work with Juniper Networks routers.

• Basic concepts concerning the configuration, management and monitoring of Juniper Networks routers are recalled.

• At the end of the course, students may obtain Juniper Certification (JNCIA-Junos exam).

• Required Skills
  - Networking fundamental
  - Understanding of destination-based, hop-by-hop IP routing in a Classless Inter-Domain Routing (CIDR) environment
Lab equipment at UNIPI

9 J4350 Router with Gigabit Ethernet Interfaces

9 SRX-240 Router with Gigabit Ethernet and Serial Interfaces

Layer 2 switches with 24 10/100/1000 Ethernet Interfaces
4 Fiber Optic Gigabit Ethernet Interfaces