

Packet Tracer Practice Lab 01

You are tasked to create a network for a medium size office. The office currently have three departments IT, Sales and HR. These departments have 100, 16 and 40 computers respectively. Company is planning to open few new departments in the future.

Company has already reserved an IP address for the network – 192.168.10.0/24

Company have following requirements for the network.

- Each Department should have its own local area network.
- Every department should be able to communicate with each other.
- You only can use one cisco switch (2960 24T) and a router (2911).

1. Using Cisco Packet tracer, propose a network solution for above company.
2. What is the best method to segment the IP addresses?
3. Reason why you're chosen method is the best. (Short answer)

Note 1: Use correct type of cables.

Note 2: Use a laptop to get access to switch and router. Attach the laptop to either switch or router in the final submission.

Note 3: Use three (3) PCs per department.

Send your Packet tracer file and answer sheet (With calculations) to

Tharinduthathsara8@gmail.com on or before 27th of November 2025. Add your Name and Index as subject.