**Questions and answers about…**

Topics: **Transporting IP Traffic**

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**Question 1:**

Suppose that I have to send a set of messages S = {1,2,…,n} from a Source A to a Destination B in 2 different IP Networks. It is now that the messages are not arriving in order and there is no delay on establishing the route from A to B, because there is no fixed route for transfer them. Explain what kind of Traffic Network is behind this and justify your response.

**Answer to question 1:**

The traffic Network behind this it is a **Virtual Packet Switching**, and in particular It is in **Datagram mode or Approach.** Packet Switching on the contrary of **Circuit Switching** there is no need to establish a fixed path between source a destination. We can detect that the Datagram mode is used because there is no Ack on package received in B and there is no need that packets arrives in order.

**Question 2:**

What is and What are the benefit of NFV (Network Functions Virtualization)?

**Answer to question 2:**

It is the concept implemented in SDN networks of replacing specialized appliances such as Routers, NATs, Firewalls, etc with Virtual Machines and Application Specific Software running inside those virtual machine providing the services that those appliances used to serve.

Among other benefits are:

* Flexibility: Because it is no need to buy new appliance to improve the functions and it is a matter of replacing VM
* Faster Service Provisioning: Provision a VM in a Software Architecture can be a matter of seconds and a process that can be automize against deploying appliances and configure them.
* Network Scalability
* Innovation and Time to market
* Expenses reduction