



Nombre de la Materia:

Fundamentos de Telecomunicaciones

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Nombre de la Licenciatura:

Ing. Sistemas Computacionales.

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Nombre de la Tarea:

AWS VPC

Unidad #3

Nombre de la Unidad: Modulación

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Fecha: 24/11/20



TECNOLÓGICO
NACIONAL DE MÉXICO

AWS VPC (Amazon Virtual Private Cloud)

Amazon Virtual Private Cloud (VPC) is a commercial cloud computing service that provides users a virtual private cloud, by "provision a logically isolated section of Amazon Web Services (AWS) Cloud"

Amazon Virtual Private Cloud (Amazon VPC) allows you to provision a logically isolated section of the AWS cloud, where you can launch AWS resources on a virtual network you define. You can control all aspects of the virtual network environment, including selecting your own range of IP addresses, creating subnets, and configuring network routing tables and gateways. You can use both IPv4 and IPv6 on your VPC to access resources and applications securely and easily.

Elements of Amazon VPC

A virtual network in the cloud created in Amazon VPC has the particularity of being isolated from the rest of the virtual networks that are in AWS. You can use the resources of AWS within the Amazon VPC network and there create instances of Amazon EC2.

Subnet: this is the way Amazon VPC creates partitions of the same private network. This subnet acts as a network by itself, with its own routing table for managing the traffic of the instances within the subnet itself.

Routing table: used to redirect the traffic within the network in a correct way. A single routing table can have several associated subnets but a subnet can only have one associated routing table at a time.

IP range: the private IP addresses that Amazon VPC provides are not accessible from the Internet, but can be used to establish communications between instances within the same private network. Public IP addresses need to first establish contact with a gateway so that they can be accessed from computers connected to the Internet.

Internet Gateway: the tool needed for instances within a network to communicate with computers connected to the Internet. On the other hand, it performs NAT (network address translation) for those instances that have been assigned a public IP.

In addition, you can also create a virtual private gateway for your company's corporate network to access resources within Amazon VPC.