**Content**

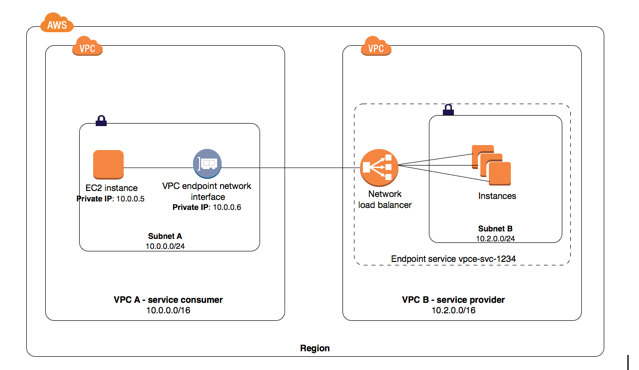
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[1. VPC Gateway vs VPC Endpoint 2](#_Toc80014367)

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1. Udemy
   1. VPC Endpoints
      1. Gateway

* In gateway apporach the vpc endpoint was created outside of the VPC. Thus it is not possible to use via VPN or Direct Connect solutions
* When associated with a route table, the route table automatically updates the prefixc list ofservice and taget endpoints
* IAM or resource policies to be used to restrict access
* Highly available by default
  + 1. Interface
* An interface endpoint is an elastic network interface with a private IP address form the IP range of your subnet.
* Sits inside a subnet and needs to be in an AZ (for HA put one in each AZ)
* Has its own dns names,
* Could be used with Route 53 Resolver to return private IP addresses
* Interface endpoints enable to use of security groups to restrict access
* VPC and Direct connect are supported
* 1 vpc endpoint / vpc / subnet / az
  + 1. Service VPC Endpoints



* + 1. Gateway Load Balancer

Gateway Load Balancers enable you to deploy, scale, and manage virtual appliances, such as firewalls, intrusion detection and prevention systems, and deep packet inspection systems. It combines a transparent network gateway (that is, a single entry and exit point for all traffic) and distributes traffic while scaling your virtual appliances with the demand.

1. Load Balancers deep dive

<https://aws.amazon.com/elasticloadbalancing/features/>

1. Networking tools

* tcpdump
* Ping

A very widely used command line utility that tests remote host availability and reports on roundtrip time, packet loss, and jitter.

* Ifconfig

A command line system query that returns the current host’s IP addressing statuses.

* NetStat

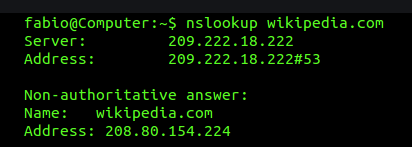
Displays both incoming and outgoing connections active on the current system.

* Dig

A utility that enables you to test your current DNS server.

* NSLookup

A DNS lookup and reverse lookup mechanism.



* Route

View or alter entries in the local routing table.

* Host

A DNS name lookup and reverse lookup tool.

* ARP

Address Resolution Protocol implementation checker. Reads the mapping between IP addresses and MAC addresses.

* EthTool

A command line tool that enables the Ethernet adapter settings to be viewed or edited.

* IWConfig

View a wireless adapter configuration and edit it.

* Hostname

View and change the host name of the current system.