**VPN – Virtual Private Network**

**Hybrid environments :** Expanding on premise network on to AWS

1. Connection can be made secure so that they work as one single private network

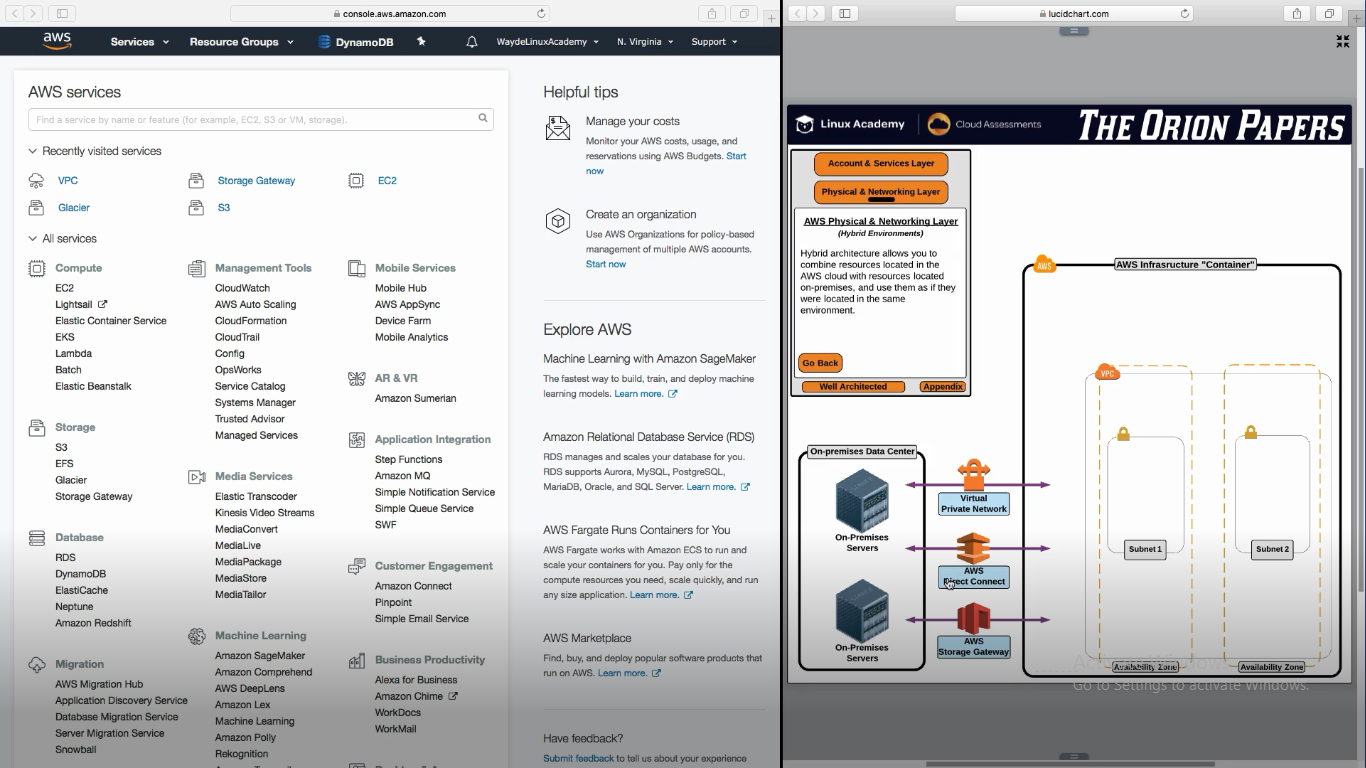
**VPN:**

Extending a network from one geographic network to another

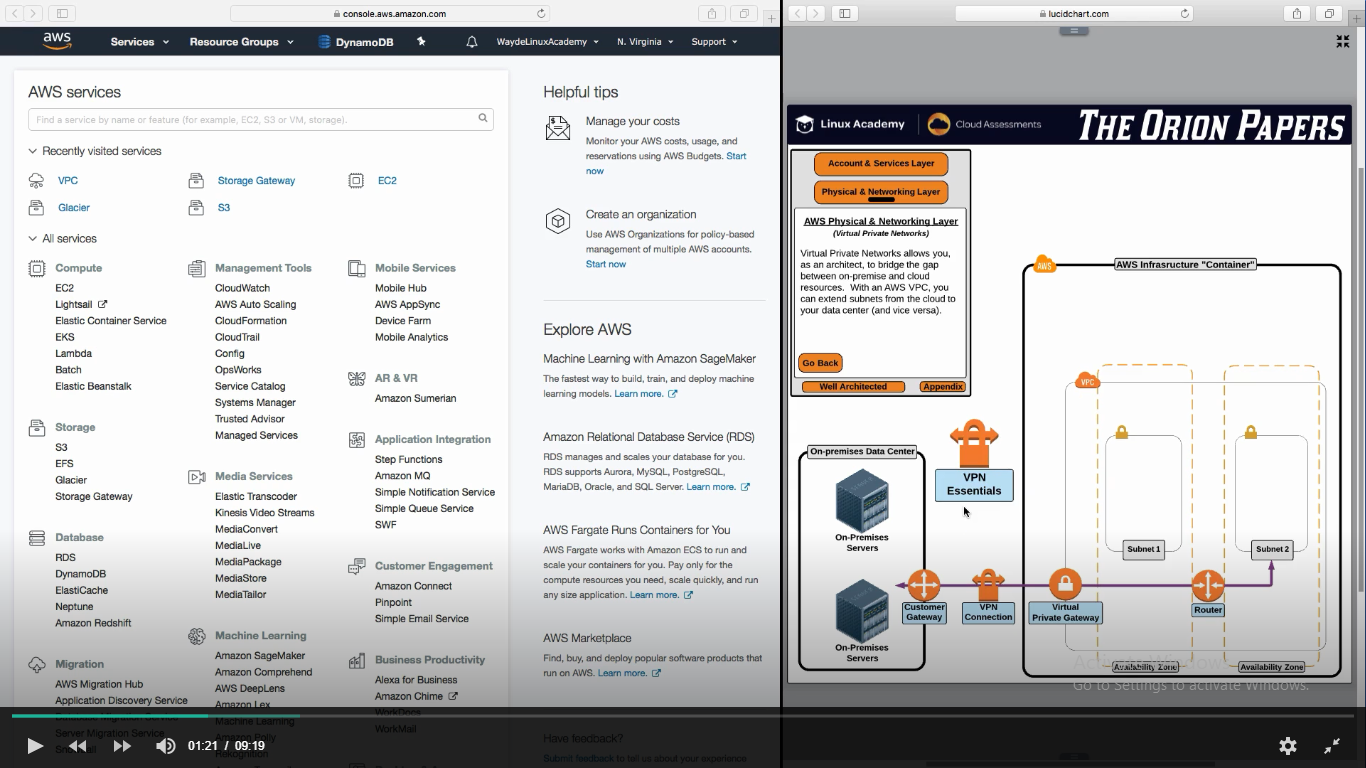
Data’s are sent over internet with IPSec (Internet Protocol Security)

It does mutual authentication in both end. It encrypts data in transit

It is private because of mutual authentication and encryption in transit



**Inside VPN**

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**Types of VPN**

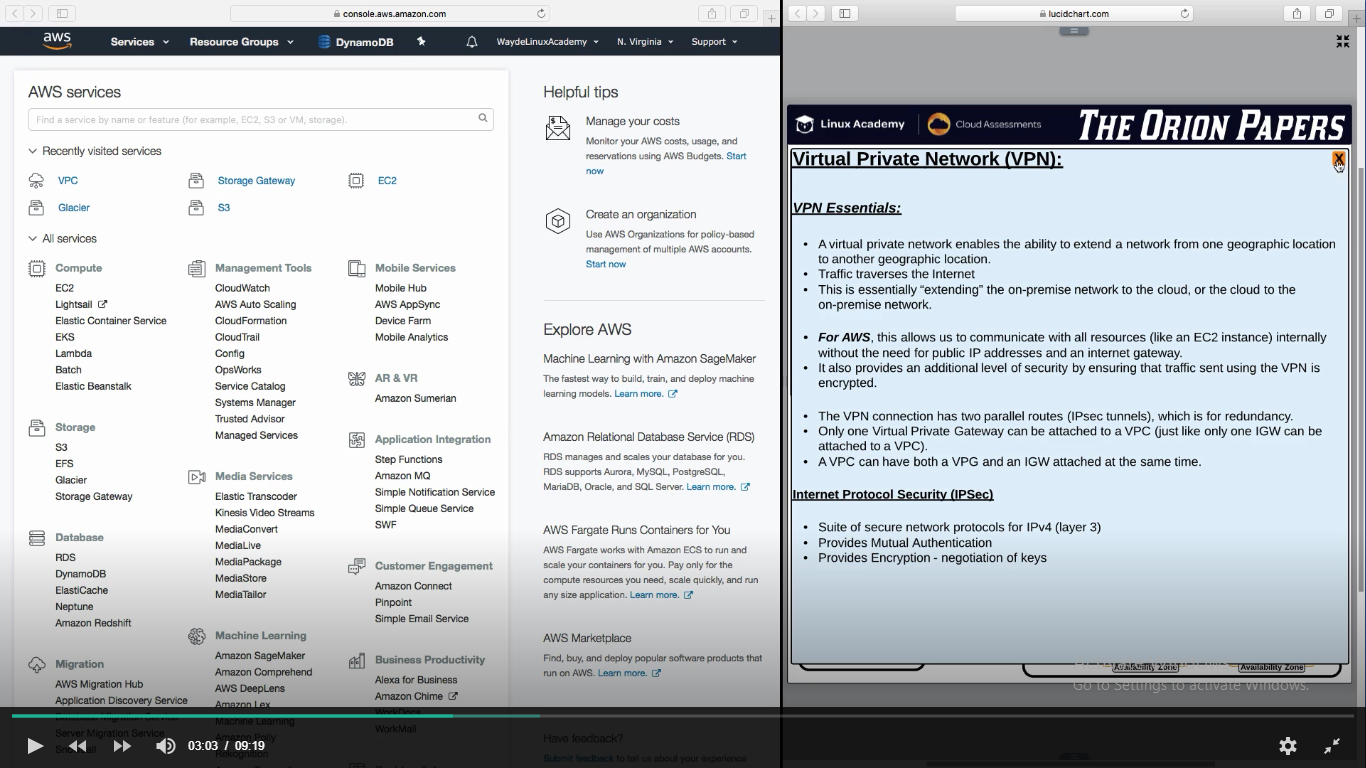
1. Traditional software based VPN
   1. We run a VPN Server and VPN Client
   2. Connect from one server to another in different network and those severs can communicate to other servers in the network
   3. Here we manage he connections

**AWS Provides Hardware VPN**

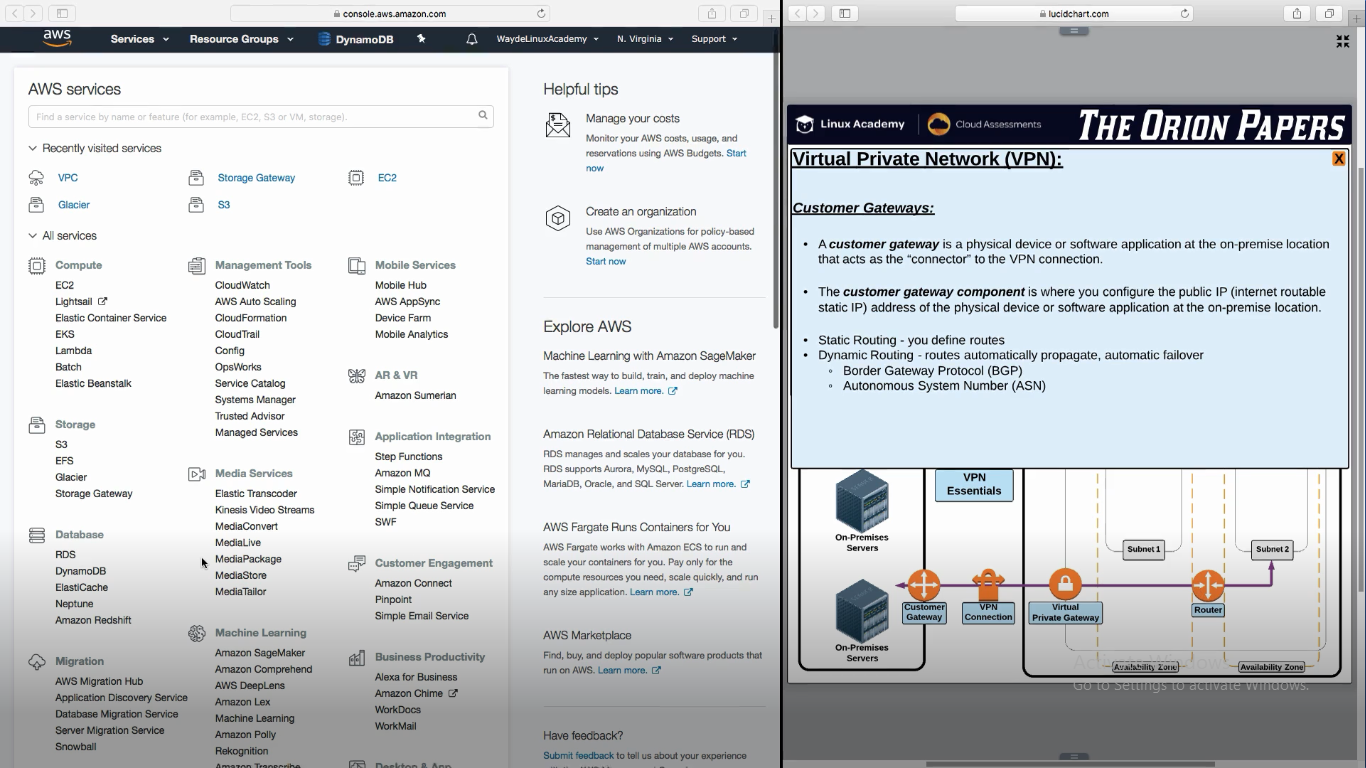
Customer Gateway 🡪 Attach it to our on premise data center

Virtual Private Gateway 🡪 Attach it to our VPC in AWS

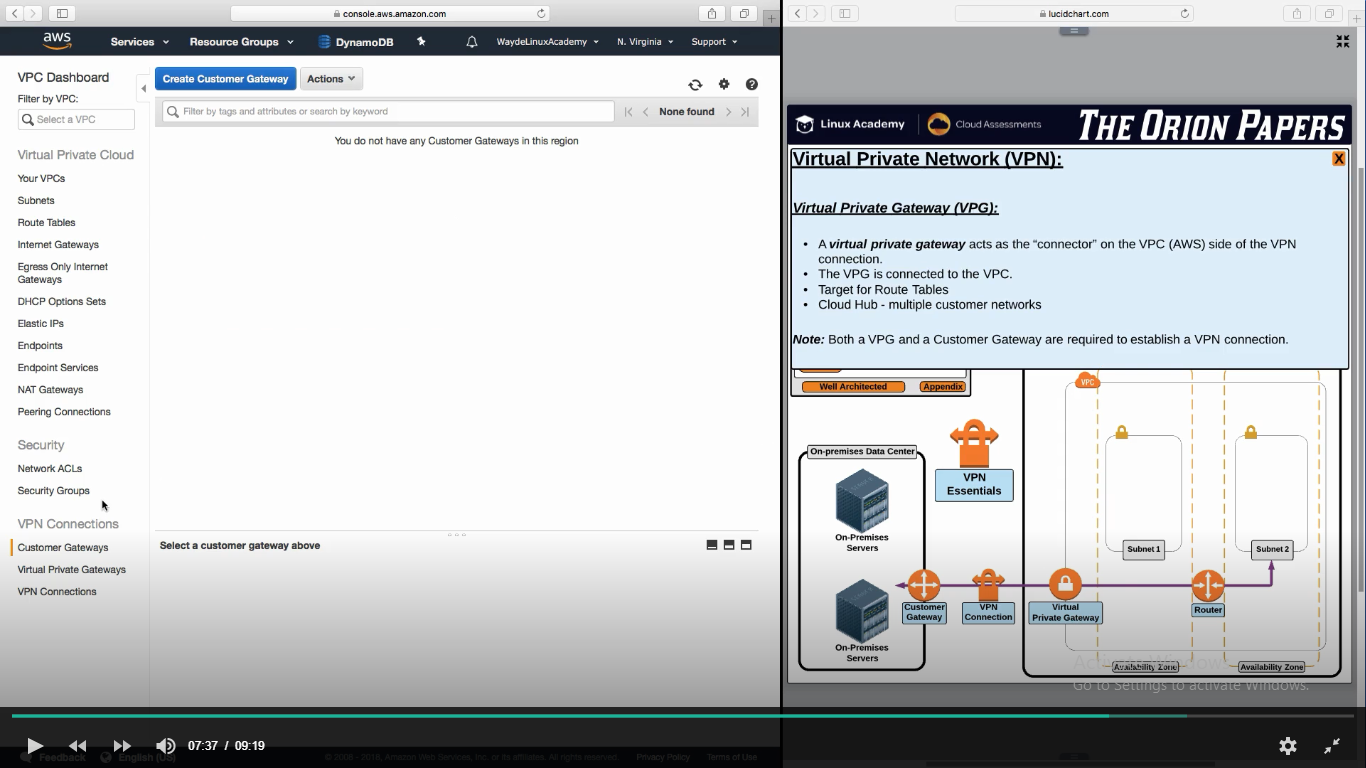
**VPN Essentials**

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**Configuring a VPN**

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**Virtual Private Gateway**

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