

### Definitions

<b>VPC</b>	Private network within AWS
<b>Subnet</b>	Private/Public sub network within VPC

### Security

<b>Network Firewall</b>	Security of VPC
<b>Network Access Control List</b>	Security of Subnet ( <i>Stateless. Allow + Deny rules</i> )
<b>Security Groups</b>	Security of EC2 ( <i>Stateful. Allow rules only</i> )
<b>Shield</b>	Security of Application ( <i>Layer 3/4</i> )
<b>Web Application Firewall</b>	Security of Application ( <i>Layer 7</i> )

### Internet Connectivity

<b>Internet Gateway</b>	Connect VPC to Internet
<b>NAT Gateway</b>	Connect Private Subnet to Internet ( <i>AWS Managed</i> )
<b>NAT Instance</b>	Connect Private Subnet to Internet ( <i>Self Managed</i> )

### Private Connectivity

<b>VPC Peering</b>	Connect VPC to VPC privately
<b>Transit Gateway</b>	Connect multiple VPCs
<b>PrivateLink</b>	Connect VPC to AWS services privately
<b>VPC Endpoint Gateway</b>	S3, DynamoDB
<b>VPC Endpoint Interface</b>	Rest of AWS services

### Hybrid Connectivity

<b>Direct Connect</b>	Connect on-premises to VPC privately
<b>VPN</b>	
<b>Site-to-Site VPN</b>	Connect on-premises to VPC publicly
<b>Customer Gateway</b>	Within on-premises
<b>Virtual Private Gateway</b>	Within VPC
<b>Client VPN</b>	Connect users to VPC publicly



By **MedAzizTousli**

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