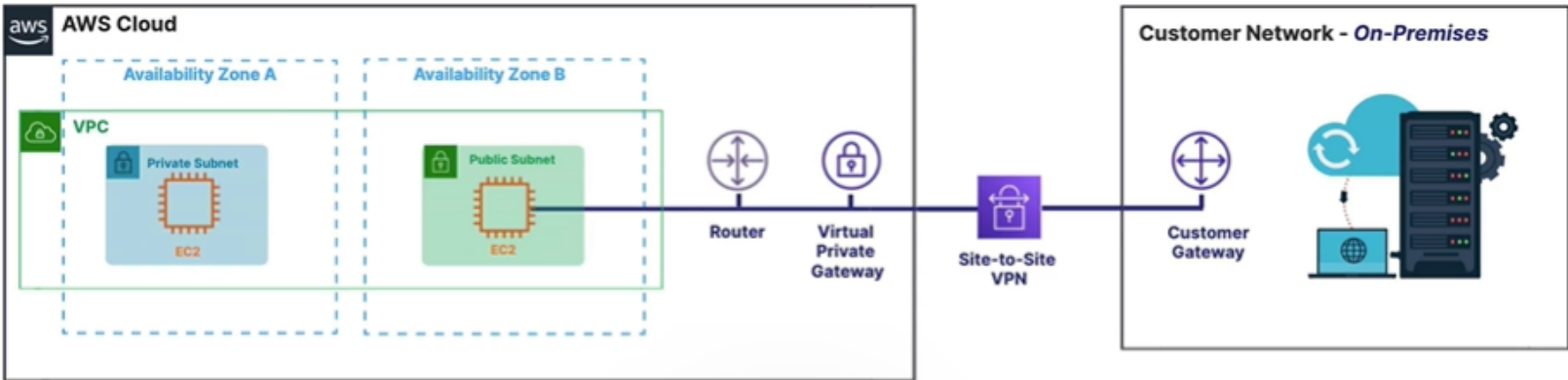


# Understanding Networking Services: Additional Networking Services

Questions	Notes
what is DNS?	<ul style="list-style-type: none"><li>DNS stands for domaine name system and directs internet traffic by connecting domain names with xeb servers</li></ul>
<b>Amazon route 53:</b> route table hosted zone	<ul style="list-style-type: none"><li>Route is a dns service that routes users to apps</li><li>Domame name registration</li><li>performs health checks on aws ressources</li><li>Supports hybrid cloud architectures</li></ul>
aws direct connect	<ul style="list-style-type: none"><li>Direct connect is a dedicated physical network connection from you on-premises data center to aws</li><li>Dedicated physical network connection</li><li>connects your on-premises data to aws</li><li>data travels over a private network</li><li>supports a hybrid enviroment</li><li>Direct connect in the real world:<ul style="list-style-type: none"><li>large datasets: Transfer large datasets to AWS</li><li>Transfer internal data directly to aws , bypassing your internet service provider</li><li>Hybrid model: Build hybrid environment</li></ul></li></ul>
AWS VPN	<ul style="list-style-type: none"><li>site-to-site VPN : creates a secure connection between your internal networks and your aws VPCs</li><li>similar to direct connect , but data travels over the public internet</li><li>connects your on-premises data center to aws</li><li>supports a hybrid environment</li><li>cheaper than direct connect</li><li>site-to-site VPN in the real world:<ul style="list-style-type: none"><li>moving application: makes moving apps to the cloud easier</li></ul></li><li>a vpn tunnel:</li></ul>  <p>The diagram illustrates the AWS Site-to-Site VPN architecture. On the left, the 'AWS Cloud' section shows two Availability Zones (A and B). Availability Zone A contains a VPC with a Private Subnet and an EC2 instance. Availability Zone B contains a Public Subnet with an EC2 instance. A Router connects the Private Subnet to the Public Subnet. A Virtual Private Gateway is connected to the Public Subnet. A Site-to-Site VPN tunnel connects the Virtual Private Gateway to a Customer Gateway in the 'Customer Network - On-Premises' section. The Customer Network contains a Customer Gateway, a cloud icon, a laptop, and a server rack.</p>
API Gateway	<ul style="list-style-type: none"><li>API gateway allows you to build and manage APis</li><li>share data between systems</li><li>Integrate with seviles like aws lambda</li></ul>
Things to remember	<ul style="list-style-type: none"><li>Route 53: Don't forget 53 performs health checks on aws ressources and supports a hybrid model</li><li>direct connect: remember that direct connect supports a hybrid model</li><li>site-to-site vpn : supports a hybrid model. Don't forget to review components such as the virtual private gateway and customer gateway</li></ul>