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AWS Site-to-Site VPN

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What?

- AWS Site-to-Site VPN creates a secure connection between your datacenter or branch office and your AWS cloud resources.
- Data transferred between your VPC and datacenter routes over an encrypted VPN connection using IPsec to help maintain the confidentiality and integrity of data in transit.

Why?

- With AWS Site-to-Site VPN you don't have to manage 3rd-party or custom VPN solutions built using EC2 instances.
- It has native integration with AWS Transit Gateway which allows customers to scale the connectivity to multiple VPCs with a single Transit Gateway-based VPN connection.

When?

- You want to extend your existing on-premises network into a VPC.
- You want to host Amazon VPCs behind your corporate firewall and seamlessly move your IT resources, without changing the way your users access these applications.

Where?

- AWS Site-to-Site VPN service is a regional service.
- It offers two VPN tunnels across multiple AZs, between a virtual private gateway or a transit gateway on the AWS side, and a customer gateway (which represents a physical device or software application) on the remote (on-premises) side.

Who?

- AWS Site-to-Site VPN is a fully-managed service.
- To enable instances in your VPC to reach your customer gateway, you must configure your route table to include the routes used by your Site-to-Site VPN connection and point them to your virtual private gateway or transit gateway.

How?

- You can create the Site-to-Site VPN connection using the customer gateway in combination with the virtual private gateway or transit gateway. After you create the Site-to-Site VPN connection, you can download a sample configuration file to use for configuring the customer gateway device.

How much?

- You are charged for each VPN connection hour that your VPN connection is provisioned and available. Each partial VPN connection-hour consumed is billed as a full hour.
- You also incur standard AWS data transfer charges for all data transferred via the VPN connection.