Direct Connect

AWS Direct Connect, sometimes also referred to as simply DX, is a network service that establishes a dedicated, private, wired connection between on-premises infrastructure and AWS services, in fact AWS claims it to be the shortest path to the AWS resources we rent from them, providing us with a high-speed, low-latency connection that helps improve performance and allow us to receive a more consistent network experience with our cloud infrastructure compared to standard internet connections.

Direct Connect is ideal for applications requiring stable and high-throughput data transfer, such as large-scale data migrations, hybrid cloud architectures, and real-time data processing. Since the service allows us to connect to AWS resources through a wired connection, it essentially bypasses the public internet and therefore essentially eliminates the security threats and interruption risks associated with web-based traffic further enhancing the reliability and connectivity to AWS resources compared to standard connections.

Finally, it is also worth noting that because DX is based on dedicated private connections, it does not compete with the organization's bandwidth allowing us to negate any internet-speed restrictions for example.