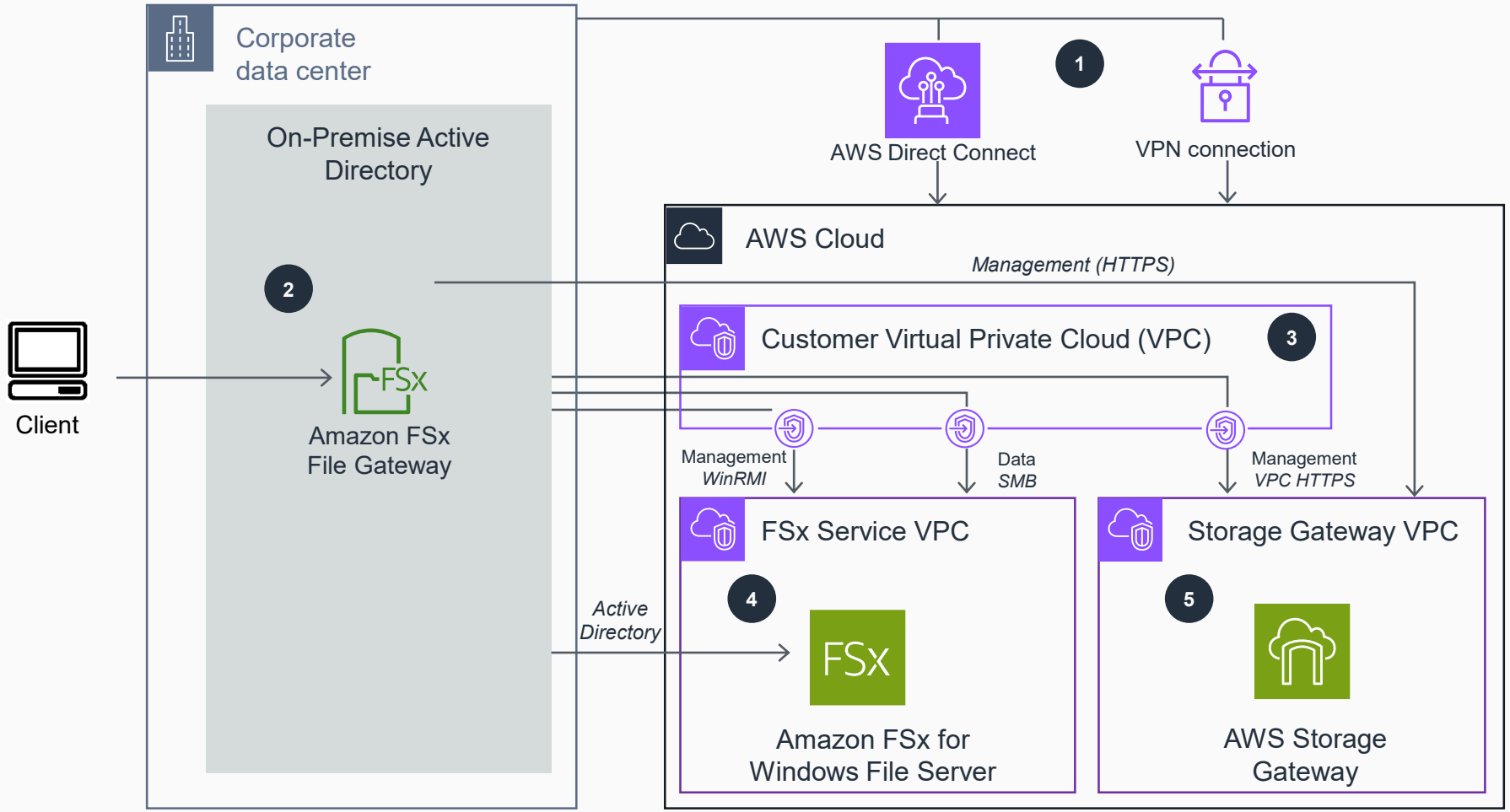
Guidance for Getting Started with Amazon FSx File Gateway

This architecture diagram shows how to connect an on-premise Windows File Server to Amazon FSx. Amazon FSx File Gateway is a new file gateway type that provides low latency and efficient access to in-cloud Amazon FSx for Windows File Server file shares from your on-premises facility.



1. **AWS Direct Connect** or a virtual private network (VPN) connection is needed to join your on-premises Active Directory domain.
2. An Amazon FSx File Gateway virtual machine (VM) or hardware appliance is installed into your on-premise environment.
3. An **Amazon Virtual Private Cloud (Amazon VPC)** enables endpoints to connect and manage **AWS Storage Gateway**.
4. An **Amazon FSx for Windows File Server** is accessed through VPC endpoints and enables the Server Message Book (SMB) file sharing protocol between the on-premise gateway. The server is added to the on-premise Active Directory domain.
5. **AWS Storage Gateway** management APIs can be accessed through private VPC endpoints or public HTTPS endpoints. You can use **AWS Storage Gateway** APIs to join Amazon FSx File Gateways to an Active Directory domain. Or, you can associate an **Amazon FSx** file system with the Amazon FSx File Gateway. You can also update file system settings, such as cache settings, bandwidth rate limits, and credentials.

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AWS Reference Architecture