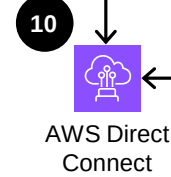


Alliance Connect Virtual Gold

 Co-location/
on-premises

SWIFT
Network: MV-
SPIN



Network partner



AWS Direct Connect

 Co-location/
on-premises

HSM



AWS Direct Connect

SWIFT
Network: MV-
SPIN



Network partner

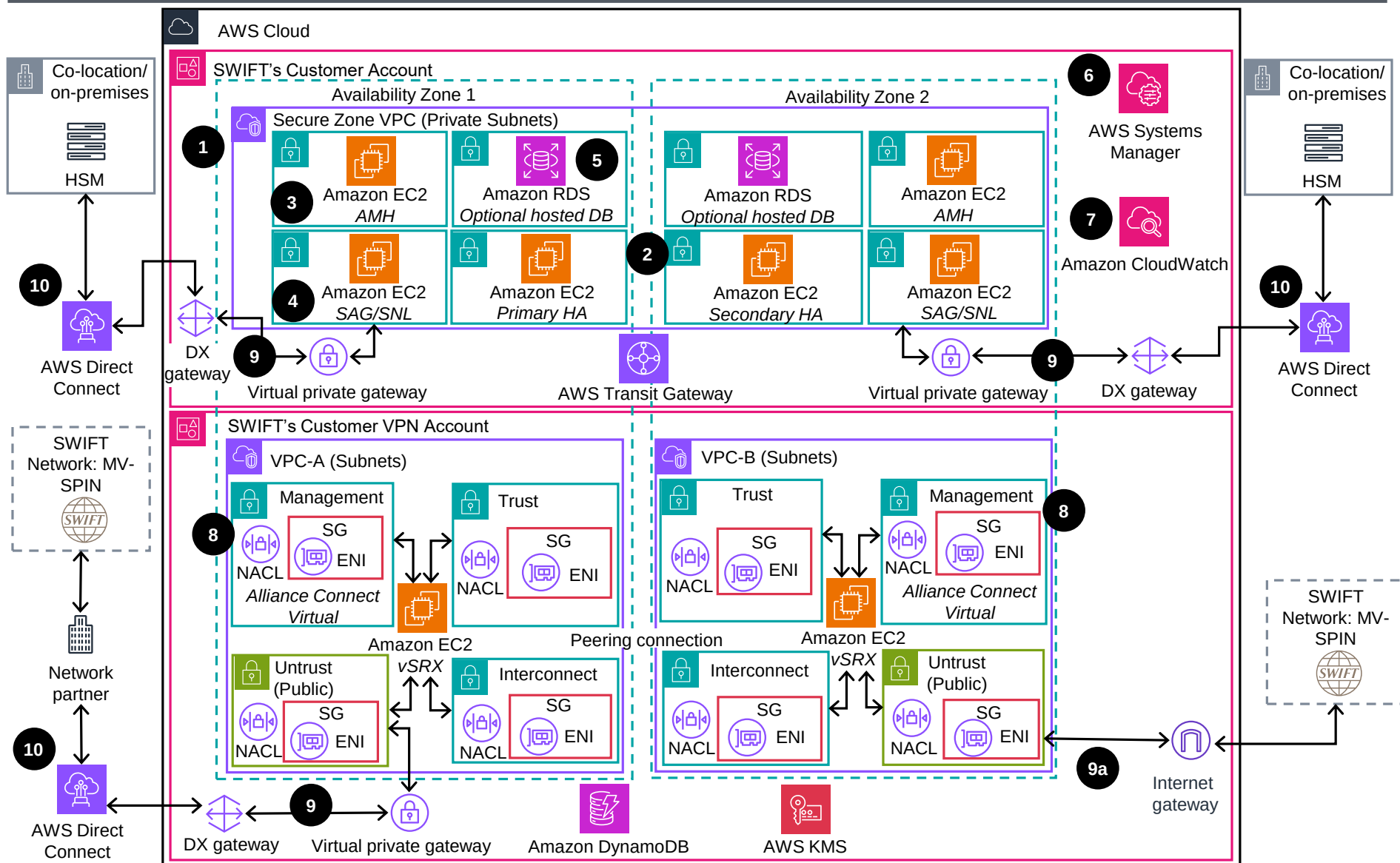
AWS Direct Connect

- 3 The **Amazon Elastic Compute Cloud (Amazon EC2)** instance hosts the Alliance Message Hub (AMH) for SWIFT message processing.
- 4 The **EC2** instance hosts SWIFT Alliance Gateway (SAG) and SWIFTNet Link (SNL) for secure financial transmission..
- 5 (Optional) **Amazon Relational Database Service (Amazon RDS)** operates in active or standby mode, storing configuration and message data for AMH. Note that while customers can use external databases, SWIFT only supports the embedded database.
- 6 **AWS Systems Manager** provides secure remote access, eliminating the need for a dedicated jump server.
- 7 **Amazon CloudWatch** collects, stores, and monitors logs and metrics from the SWIFT environment.
- 8 A dual Alliance Connect Virtual **EC2** instance, based on Juniper vSRX platform, establishes **AWS Virtual Private Network (AWS VPN)** connectivity to the SWIFT network.
- 9 An **AWS VPN** gateway links the **Amazon Virtual Private Cloud (Amazon VPC)** to **AWS Direct Connect** for reliable, private connectivity.
- 10 **Direct Connect** provides private connectivity between AWS and data centers or colocation environments.

Guidance for SWIFT Alliance Message Hub on AWS

Alliance Connect Virtual Silver

This architecture diagram shows a standardized environment for connecting to the SWIFT network using Silver standard connectivity.



Reviewed for technical accuracy May 23, 2025

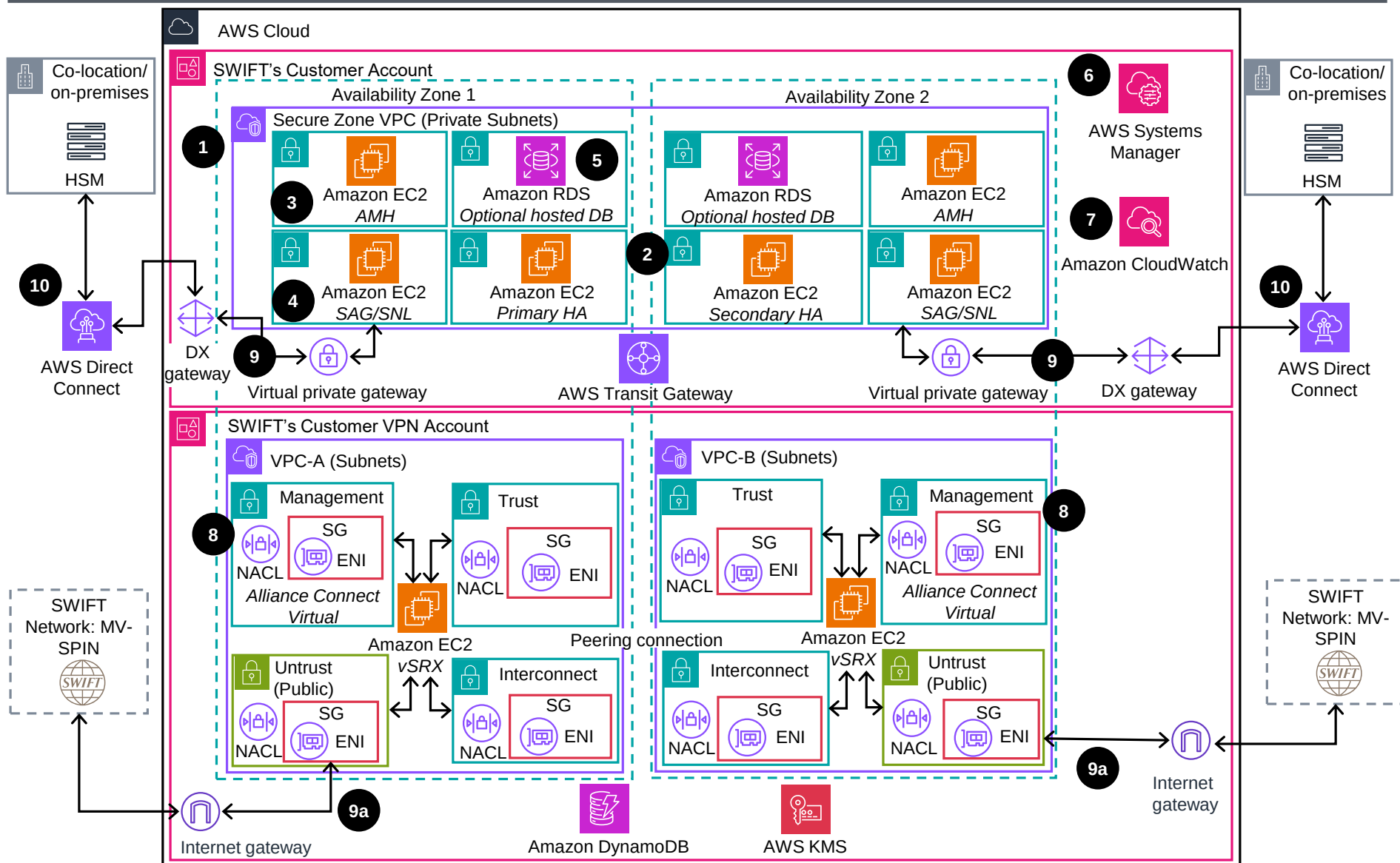
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AWS Reference Architecture

Guidance for SWIFT Alliance Message Hub on AWS

Alliance Connect Virtual Bronze*

This architecture diagram shows a standardized environment for connecting to the SWIFT network using Alliance Connect Virtual Bronze connectivity.



- 1 This architecture operates across two AZs for redundancy.
- 2 Configure **Amazon VPC** with private subnets that meet AWS and SWIFT CSP security.
- 3 The **EC2** instance hosts AMH for SWIFT message processing.
- 4 The **EC2** instance hosts SAG and SNL for secure financial transmission.
- 5 (Optional) **Amazon RDS** operates in active or standby mode, storing configuration and message data for AMH. Note that while customers can use external databases, SWIFT only supports the embedded database.
- 6 **Systems Manager** provides secure remote access, eliminating the need for a dedicated jump server.
- 7 **CloudWatch** collects, stores, and monitors logs and metrics from the SWIFT environment.
- 8 A dual Alliance Connect Virtual **EC2** instance, based on Juniper vSRX platform, establishes **AWS VPN** connectivity to the SWIFT network.
- 9 An **AWS VPN** gateway links the **Amazon VPC** to **Direct Connect** for reliable, private connectivity.
- 9a An internet gateway allows communication between the **Amazon VPC** to the SWIFT network over the internet, providing redundancy and failover capability.
- 10 **Direct Connect** provides private connectivity between AWS and data centers or colocation environments.

*Bronze may be appropriate for development environments but is not recommended for AMH due to its suitability for low volume traffic. AMH is designed for high volume institutions.



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AWS Reference Architecture