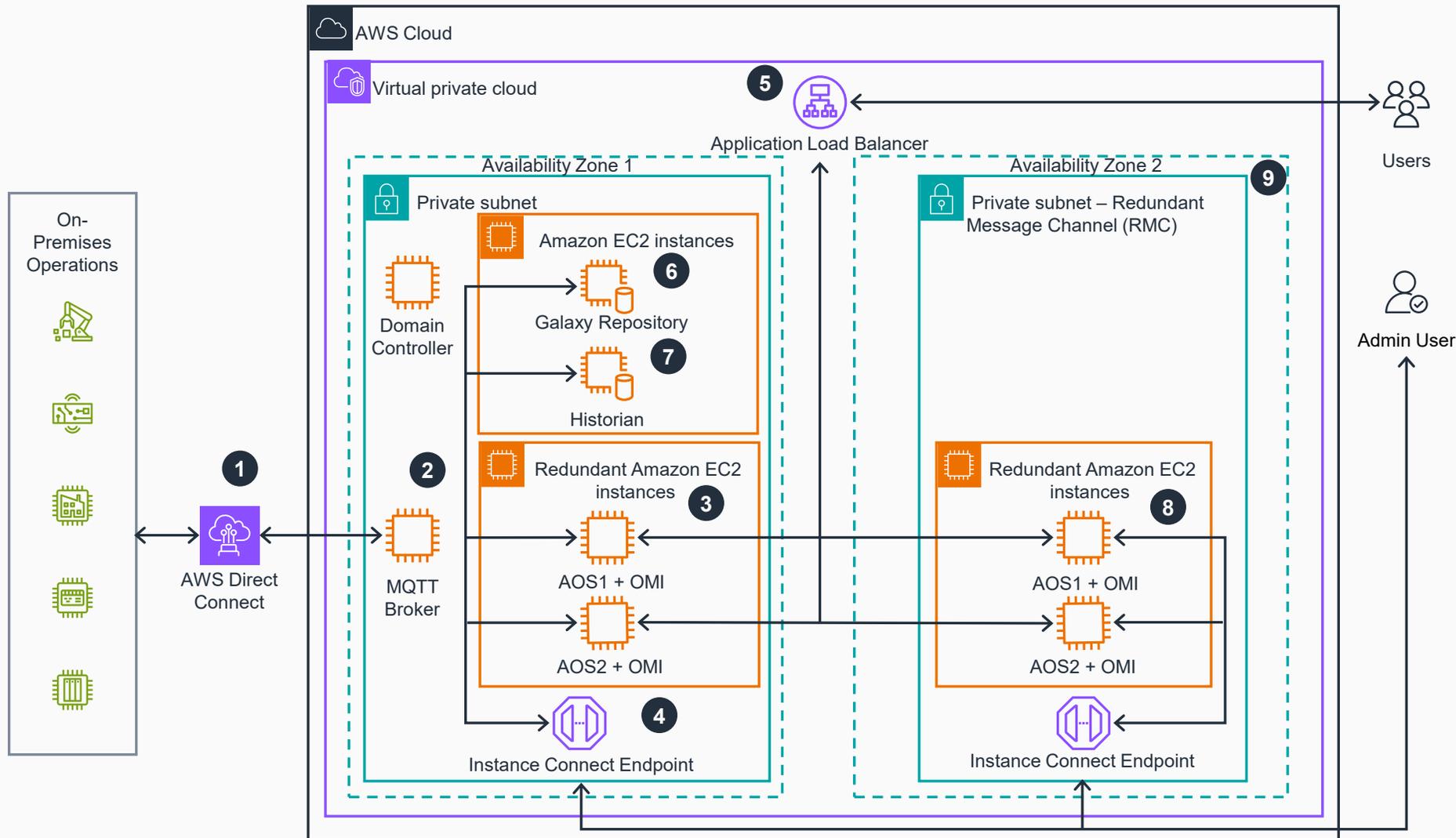


# Guidance for AVEVA System Platform on AWS

This architecture diagram shows how to deploy AVEVA System Platform on AWS with secure connectivity, redundant configurations, and integrated data management for continuous industrial operations and near real-time decision support.



- 1 Connect field operations to AVEVA System Platform on AWS using **AWS Direct Connect** for dedicated protected network links. Use VPN or encrypted MQTT connections as alternative secure options.
- 2 Deploy MQTT broker in a private subnet with secure connection requirements to enable protected communication between field devices and AVEVA System Platform. Maintain data integrity and confidentiality.
- 3 Deploy AVEVA Application Object Server (AOS) to **Amazon Elastic Compute Cloud (Amazon EC2)** to host AppEngines and physical equipment object instances. Configure AOS to provide near real-time data and manage communication drivers, System Management servers, and web services.
- 4 Configure Instance Connect Endpoint to enable secure administrative access to AVEVA nodes.
- 5 Configure Application Load Balancer to provide secure access to Operations Management Interface (OMI) web clients.
- 6 Deploy Galaxy Repository Node with Microsoft SQL Server to store object definitions and project configurations in the Galaxy database. Install Integrated Development Environment (IDE) on this node.
- 7 Deploy Historian Node with Microsoft SQL Server and AVEVA Historian software to store historical process and alarm data. Configure data access for trending, reporting, and analysis applications.
- 8 Configure redundant AOS pairs to distribute primary AppEngines across two platforms with opposite node backups. Balance workload and implement first-level redundancy for continuous operation and high availability.
- 9 Deploy System Platform in secondary availability zone with failover configuration to enhance system resiliency.

