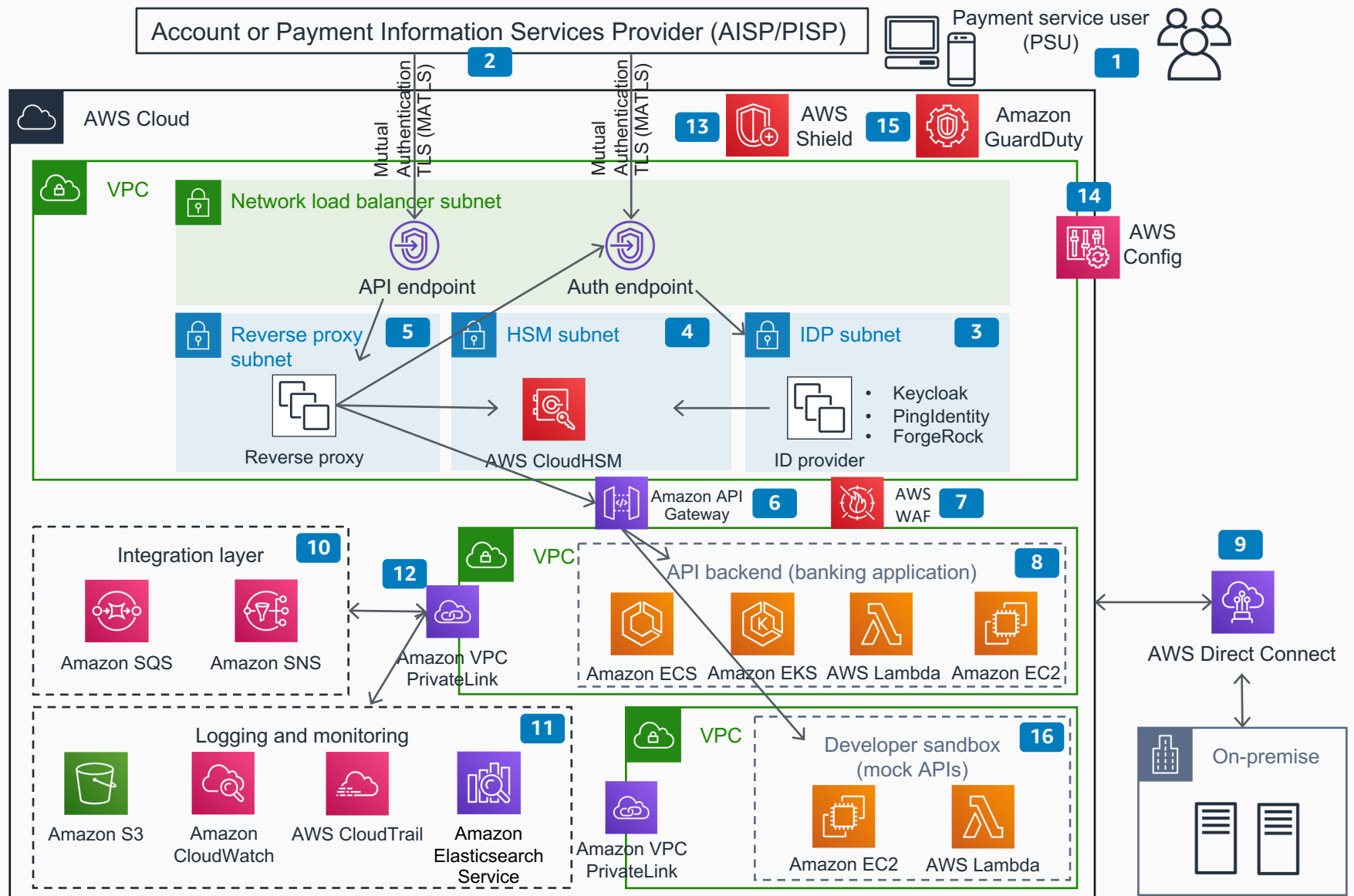


Open Banking on AWS

Implement the right architecture for Open APIs.



- 1 Payment service user accesses third-party application; can use any service.
- 2 Third parties—account or payment information services providers (AISP/ PISP)—build applications around payments, money transfer. Aggregating data across banks provides more insights (such as spend analysis, balance across banks).
- 3 Third-party application obtains an access token from the account servicing payment service provider (ASPP) to service user requests. ASPP validates the certificate of AISP/PISP using mutual TLS authentication and provides an access token (from identity providers such as ForgeRock, PingIdentity, and Keycloak).
- 4 AWS CloudHSM offloads SSL certificates for both API and Auth endpoints.
- 5 A reverse proxy (such as Nginx) is used to meet mutual TLS requirement of the Open Banking Standard.
- 6 Amazon API Gateway handles the complete API management of the banking APIs.
- 7 AWS WAF integrates with API Gateway to protect against common web exploits.
- 8 Banking logic is implemented using AWS Lambda, containers, or by running Amazon EC2 instances.
- 9 Banking logic accesses a bank's data center using AWS Direct Connect.
- 10 Amazon SQS and Amazon SNS provide integration and notification capabilities between different services.
- 11 Service logs are collected in Amazon S3 and analyzed and monitored using Amazon Elasticsearch.
- 12 AWS PrivateLink securely connects a VPC to supported AWS services.
- 13 AWS Shield protects against DDoS attacks.
- 14 AWS Config provides continuous compliance.
- 15 Amazon GuardDuty continuously monitors for malicious activity and unauthorized behavior; protecting AWS accounts and workloads.
- 16 Third parties use a separate developer sandbox to build their applications.

