



Architecture diagrams for travel

IFS Maintenix Software Implementation on AWS



IFS Maintenix Software Implementation on AWS: Architecture diagrams for travel

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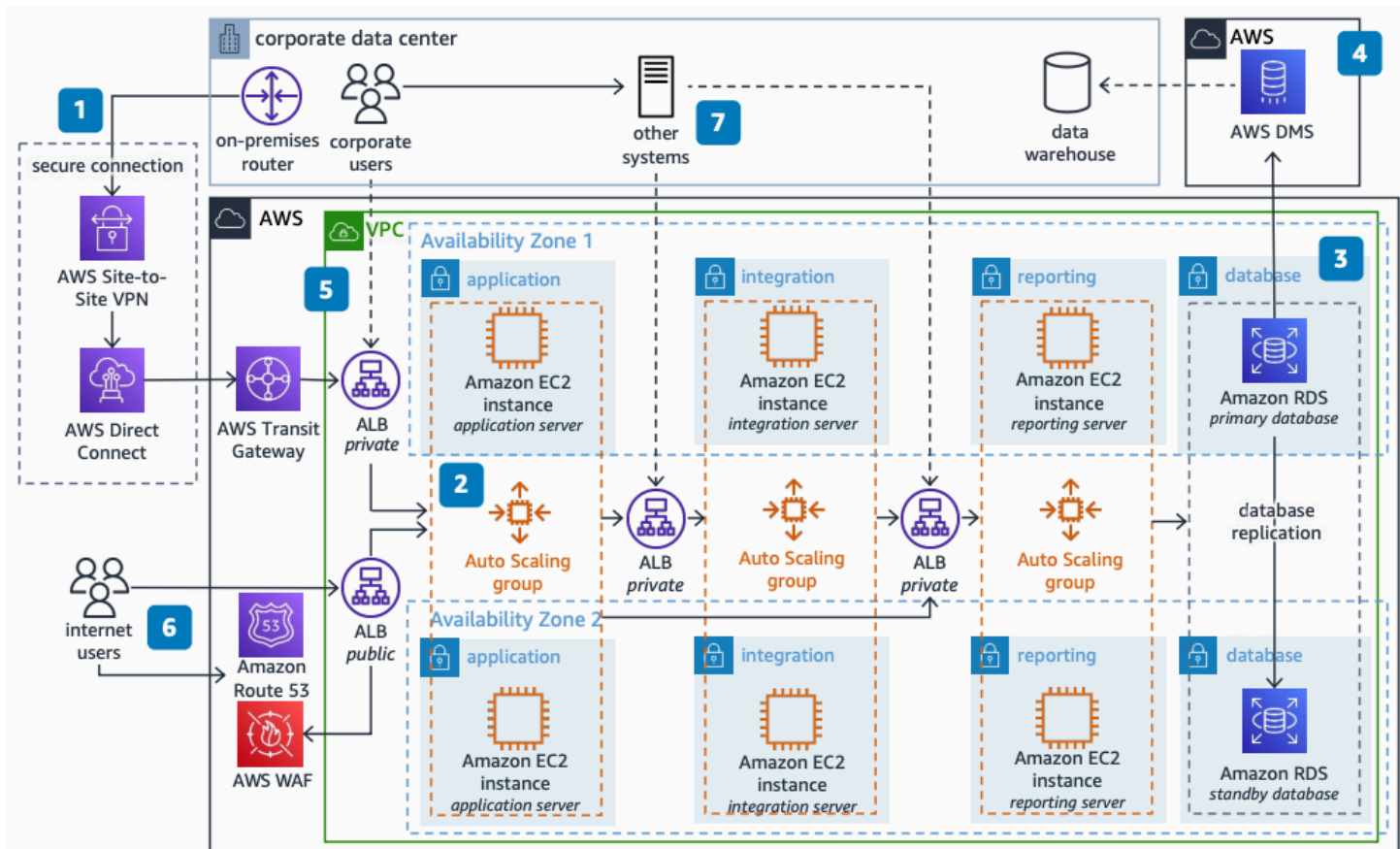
IFS Maintenix Software Implementation on AWS

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You can use AWS to create a highly available, secure, flexible, and cost-effective architecture to host [IFS Maintenix Aviation Maintenance Management Software](#). This architecture connects on-premises systems to AWS with multiple networking options.

This architecture deploys IFS Maintenix software servers across two Availability Zones. It uses [Amazon RDS](#) for the database tier and [AWS Database Migration Service](#) for data replication to your data warehouse.

IFS Maintenix implementation diagram



The following steps describe the architecture:

1. Connect on-premises routers securely with high availability to a [Amazon VPC](#). Use [AWS Direct Connect](#), [AWS Site-to-Site VPN](#), and [AWS Transit Gateway](#).

2. Deploy Maintenix software servers into [Amazon EC2](#) instances across two Availability Zones with Auto Scaling groups.
3. Deploy an Oracle database by using [Amazon RDS](#) configured with Multi-AZ for high availability with a failover standby instance.
4. Turn on Change Data Capture (CDC) with [AWS Database Migration Service](#). Push changes to your data warehouse for analytical processing.
5. Provide access to the application tier for corporate-network users. Route requests through a private Application Load Balancer through AWS Transit Gateway into the Amazon EC2 Auto Scaling group.
6. Allow internet-connected users to access the application tier through a public Application Load Balancer. Use [Route 53](#) for domain name resolution. Protect the Application Load Balancer with [AWS WAF](#).
7. Configure the Integration and Reporting tiers for internal access only. Make them accessible from the application tier Auto Scaling group and from on-premises through private Application Load Balancers.

Further reading

For additional information, see the following resources:

- [AWS Architecture Icons](#)
- [AWS Architecture Center](#)
- [AWS Well-Architected](#)

Diagram history

To receive updates about this reference architecture diagram, subscribe to the RSS feed.

Change	Description	Date
Initial publication	Reference architecture diagram first published.	March 24, 2022

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