

Module-13 Well-Architected Solutions

Date _____
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#1 AWS Specialized Services

1. Development Services (Build & Deploy)

- CodePipeline → CI/CD automation (build, test, deploy automatically)
- X-Ray - Debug & trace Application performance.
- AppSync → Build GraphQL APIs
- Amplify → Frontend + full stack, app development Simplify

2. Business Application Services (Customer Facing)

- Amazon Connect - Cloud contact center (calls, chat, support)
- Amazon SES → Bulk email sending service.

3. End User computing (Remote Access)

- AppStream 2.0 → Stream desktop apps via browser
- Workspace → Full virtual desktop (VDI)
- Workspaces Web → Browser only access to webapps

4. AWS IoT Core is a managed Cloud service used to securely connect physical devices with Cloud apps.

#2 AWS Well-Architected Framework

A best practice framework to design secure, reliable, high-performing, cost-optimized and sustainable cloud architectures.

6 Pillars

- (I) Operational Excellence - Monitor, automate, improve processes
- (II) Security → protect Data, identities, Systems
- (III) Reliability → Recover from failures, high availability
- (IV) Performance Efficiency - Right resources, scale efficiently
- (V) Cost optimization - Avoid waste, optimize spending
- (VI) Sustainability - Reduce environmental impact

AWS Well Architected Tool

Free Tool in AWS console to :

- Review workloads.
- Identify RISKS (High/Medium)
- Get improvement recommendations.