

**AWS Reference Architecture Diagram** 

# **Amazon Virtual Andon**



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## Amazon Virtual Andon: AWS Reference Architecture Diagram

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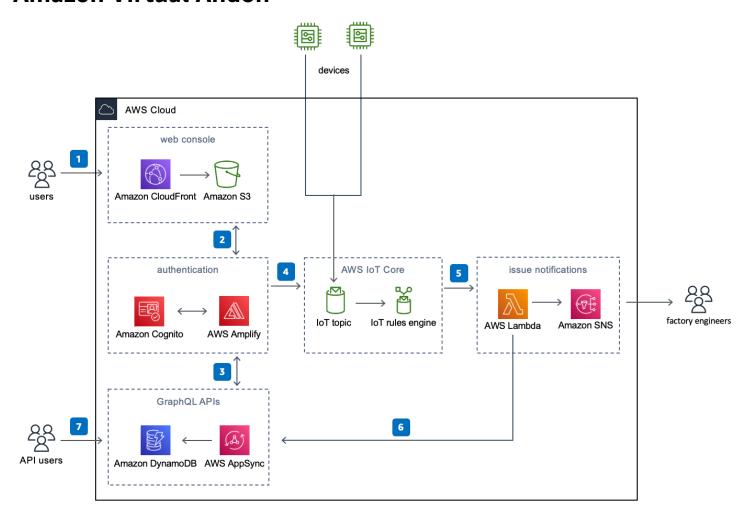
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### **Amazon Virtual Andon**

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This architecture provides a scalable Andon system to help optimize processes, support the transition to predictive maintenance, and prevent future equipment issues. This architecture can also be <u>deployed on AWS</u> using an AWS CloudFormation template that launches, configures, and runs the AWS services required to deploy this solution using AWS best practices for security and availability.

### **Amazon Virtual Andon**



1. An **Amazon CloudFront** web interface deploys into an **Amazon Simple Storage Service** (Amazon S3) bucket configured for web hosting.

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- 2. An **Amazon Cognito** user pool allows the solution's administrators to register users and groups using the web interface.
- 3. **AWS AppSync** GraphQL APIs and **AWS Amplify** power the web interface. **Amazon DynamoDB** tables store the factory data.
- 4. An **AWS IoT** rule engine helps users monitor manufacturing workstations or devices for events, and then routes the events to the correct engineer for resolution in real-time.
- 5. Authorized users can interact with and receive notifications from this solution. An **AWS Lambda** function and **Amazon Simple Notification Service** (Amazon SNS) send email messages and SMS notifications.
- 6. Issues created, acknowledged, and closed in the web interface are recorded and updated using **AWS AppSync** and **DynamoDB**.
- 7. The AWS AppSync GraphQL APIs can be called directly with HTTP POST requests.

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## **Further reading**

For additional information, refer to

- AWS Architecture Icons
- AWS Architecture Center
- AWS Well-Architected
- IoT Lens Checklist AWS Well-Architected

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Diagram history