
AWS
re:Invent
NOV. 28 – DEC. 2, 2022 | LAS VEGAS, NV

PRT079

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Enabling successful MRO operations with the AWS Cloud

Anil Natogi

Senior Director – Enterprise Application Engineering
GE Aerospace

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#SAPonAWS
Maximizing MRO transformation with the AWS cloud
AWS re:Invent 2022
Session ID: PRT079
Location, Date, and Time: VEN - Lightning Theater 1 | Wed 2:15 PM

At GE Aerospace, we invent the future of flight, lift people up and bring them home safely

Powering the world's airline fleets with more than 39,000 engines

3/4 takeoffs

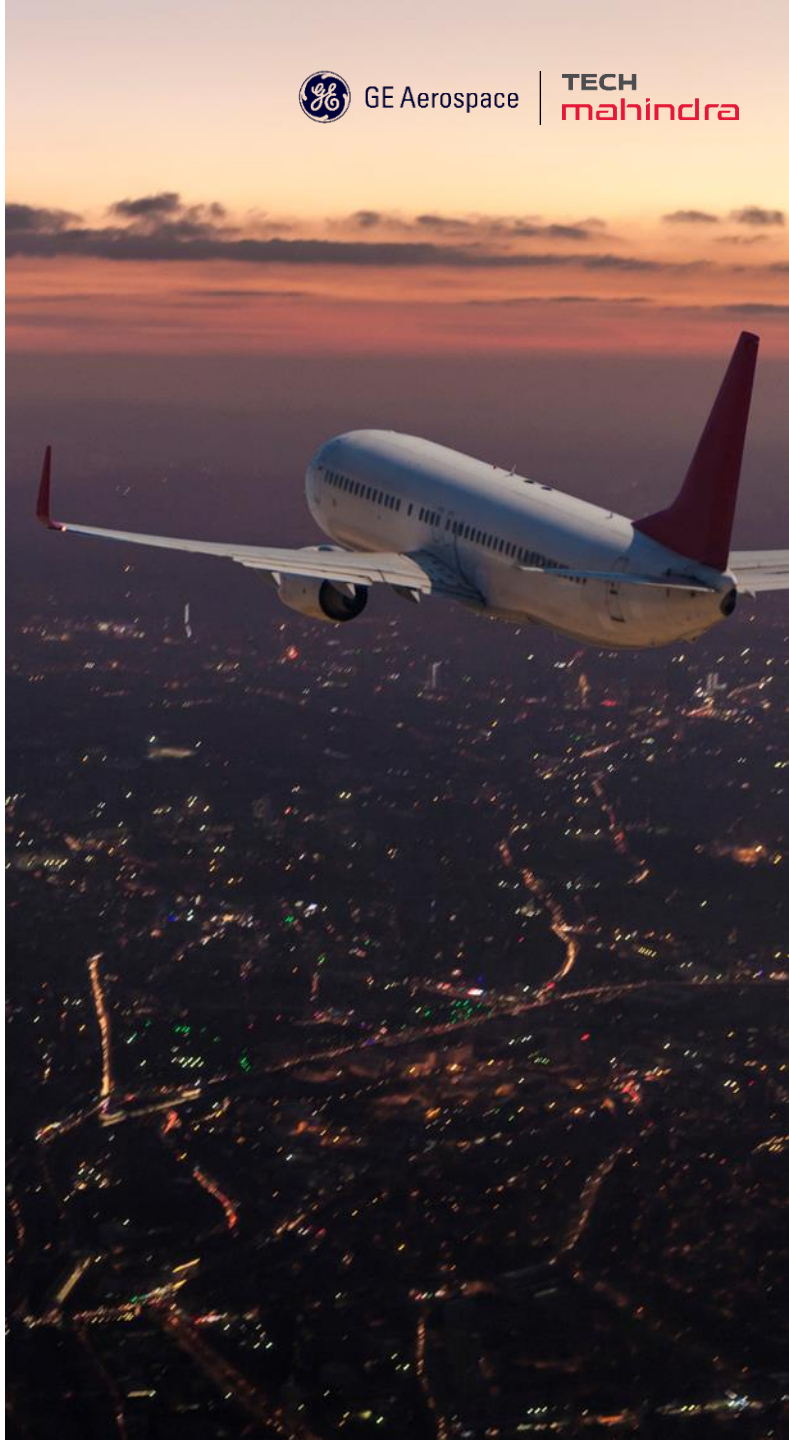
Three out of every four takeoffs are powered by GE

400,000 people

~400,000 people are in the air right now depending on our engines

0:02

Every 2 seconds an aircraft with GE engine technology is taking off somewhere in the world



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AWS Cloud Migration for Aerospace SAP Workloads

About

GE Aerospace is a world-leading provider of jet and turboprop engines, as well as integrated systems for commercial, military, business and general aviation aircraft. GE Aerospace has a global service network to support these offerings.

GE Aerospace needed to transform their IT infrastructure solution to address:

- Reduction in **TCO**
- Enhance security & Data access
- Increased performance & efficiency
- Stable environment
- High Availability of RPO and RTP
- Visibility, Accuracy and mapping of assets



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GE Aerospace SAP Migration to AWS

Key Accomplishments

GE Aerospace partnered with AWS & Tech Mahindra to migrate SAP OASIS (Optimized Aviation Services Information System) workload to AWS

4000+
Users

20
Shops

110
Servers IAAS - Fully automated infra provisioning and SAP Installation

400
Engines

100%
Uptime after migration (includes month end)

8
SAP Applications

24
Databases

High Availability
Zero Downtime

2500+
Test Scripts

200 TB
Storage

3
Mocks

16
Hours Downtime



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Solution Highlights

AWS Services

- EC2, RDS, Linux Bastion
- Amazon EBS, Amazon EFS
- Amazon S3, Route 53
- Amazon VPC, NLB
- CloudWatch / CloudTrail
- SSM, IAM
- AWS Backup
- CloudFormation

Products in scope

- SAP ECC, GRC, BOBJ, HANA, Portal, SOLMAN
- Oracle DB
- Informatica
- Non-SAP apps

Third party solutions

- CloudEndure for DR
- Pacemaker for HA
- NewRelic monitoring tool
- Splunk Log Management
- Qualys Security Scan
- Crowdstrike endpoint
- Chef configurations management

- **AWS CloudFormation stacks were used to build automated EC2, EFS, Network Load Balancer and SAP application install.**
- **Pacemaker** solution was used for SAP ASCS and ERS central instance **high availability**
- **Oracle DG broker** was used for DB high availability and DR solution
- **AWS DRS** was used for Disaster recovery solution
- **SAP data mock loads** and performance testing done to check system stability
- **Qualys, Splunk, Crowdstrike** installed for security, log monitoring and endpoint protection
- **AWS Backup policies** created for volumes snapshots and DB RMAN backups
- **AWS SSM Agent** for fully automated OS patching process has been enabled

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