

CASE STUDY

**End-to-End AWS
Services for a Travel
Technology Company
Delivers Extensive
Business Benefits**

Client

A travel technology company headquartered in the US and is one of the largest global distribution systems providers for air bookings in North America.



Challenges



No control on unused AMI images



No validation of committed code



Need for cost optimization



Lack of visibility on Amazon Machine Image (AMI) image expiry



Manual AWS account setup takes longer time (2-3 weeks) and is error prone



No monitoring system for legacy accounts and AWS service outages



IP address availability management is not tracked



Difficulty in releasing new infra changes

LTIMindtree Solution

LTIMindtree team collaborated with the customer's operational and engineering teams and proposed the Migration with Managed Services solution as below:

- Designed the AMI expiry solution using AWS core services (Lambda, DynamoDB, etc.) to identify the expired images.
- Designed and developed the product to identify unused AMIs and formalized the deletion process.
- Developed one-click deployment product for building multiple accounts using AWS core services like Cloud Formation Template (CFT), Identity and Access Management (IAM), code build, and shell scripts.
- Designed and developed the new product for AWS Subnet IP monitoring.
- Integrated the Jenkins file for all AWS repositories for Continuous Integration (CI) build for every code commit.
- Built CI/Continuous Deployment (CD) pipeline and automated updation process of CFT stacks and stack set for infra.
- Developed the code to integrate AppDynamics and Trend Micro agents on all legacy instances.
- Wrote the code to delete unused snapshots for legacy instances using shell scripts.
- Implemented Amazon Health Aware (AHA) and integrated with MS Teams channel to send notifications to cloud team.

Business Benefits



\$2766/month
saved by
removing
unused images



\$30k cost
savings per
month to remove
unused snapshots



Reduced account
build activities to
2-3 days from 2-3
weeks



Achieved
90% AWS
account setup
automation



Reduced manual
stack deployment
from 90 mins to 15
mins to minimize
turnaround time



Real-time
infrastructure
monitoring and
alerting for
application teams



Ensured **100%**
monitoring of
AWS service
outages using
AHA



Reduced 90%
of technical
debts through
45+ SOP
documentation

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