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

A travel technology company headquartered in America 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.
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**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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