DevOps Case Study

Automating MAPR (Hadoop Cluster) Provisioning
for a Global Travel Technology Company

Customer Context & Goals
The client is one of the leading travel technology pioneer, providing robust platforms and solutions to the Travel Industry.

The DevOps and Cloud Automation CoE helped the customer:

- Virtualize at scale, Manage cloud Infra and Service delivery models with a single click to achieve business-IT alignment

Challenges

50% Reduction in Hadoop cluster set-up time
40% Improvement in Productivity
SINGLE Click Infra Provisioning
**Solutions**

- Automation, Patching and Upgradation of MapR tools using Node Hopper using Python
- Nodes configuration and roles assignment
- Download all the remote libraries for MapR tools like Oozie, Hive, Spark etc
- Implementing Puppet architecture throughout the nodes to install all MapR dependencies

**Business Benefits**

- Time taken to set up the entire Hadoop cluster was reduced to 30 to 40 minutes from 2 hours earlier
- Triggering, monitoring inbuilt MapR tools for preparing MapRFS on top of Linux to ensure all map services are up and running within minutes

**Tools and Environment**

- Automation: Python, Ruby
- Configuration Management: Puppet
- Tools: MapR, Kerberos, Graphana