



Cloud Consulting for Infrastructure Consolidation and DevOps Automation

Cloud Consulting for Infrastructure Consolidation and DevOps Automation

Improved development and delivery cycles by implementing DevOps best practices



About Customer

- Leading producer of IoT devices, connected networks and platforms for smart cities globally
- The client has deployed their solutions in major cities of USA, Canada, Mexico and Chile



Approach / Deliverables

- Configuration management tools for automated infrastructure resource provisioning and Application orchestration
- Auto scaling feature on each layer was added enabling infrastructure to work across varying workloads
- Achieved total availability by leveraging existing cloud capabilities to withstand availability zone disruptions
- Leveraged Google Cloud Content Delivery Network for serving static frontend resources
- DevOps best practices, proactive server monitoring, Test Automation to improve quality



Business Challenges / Drivers

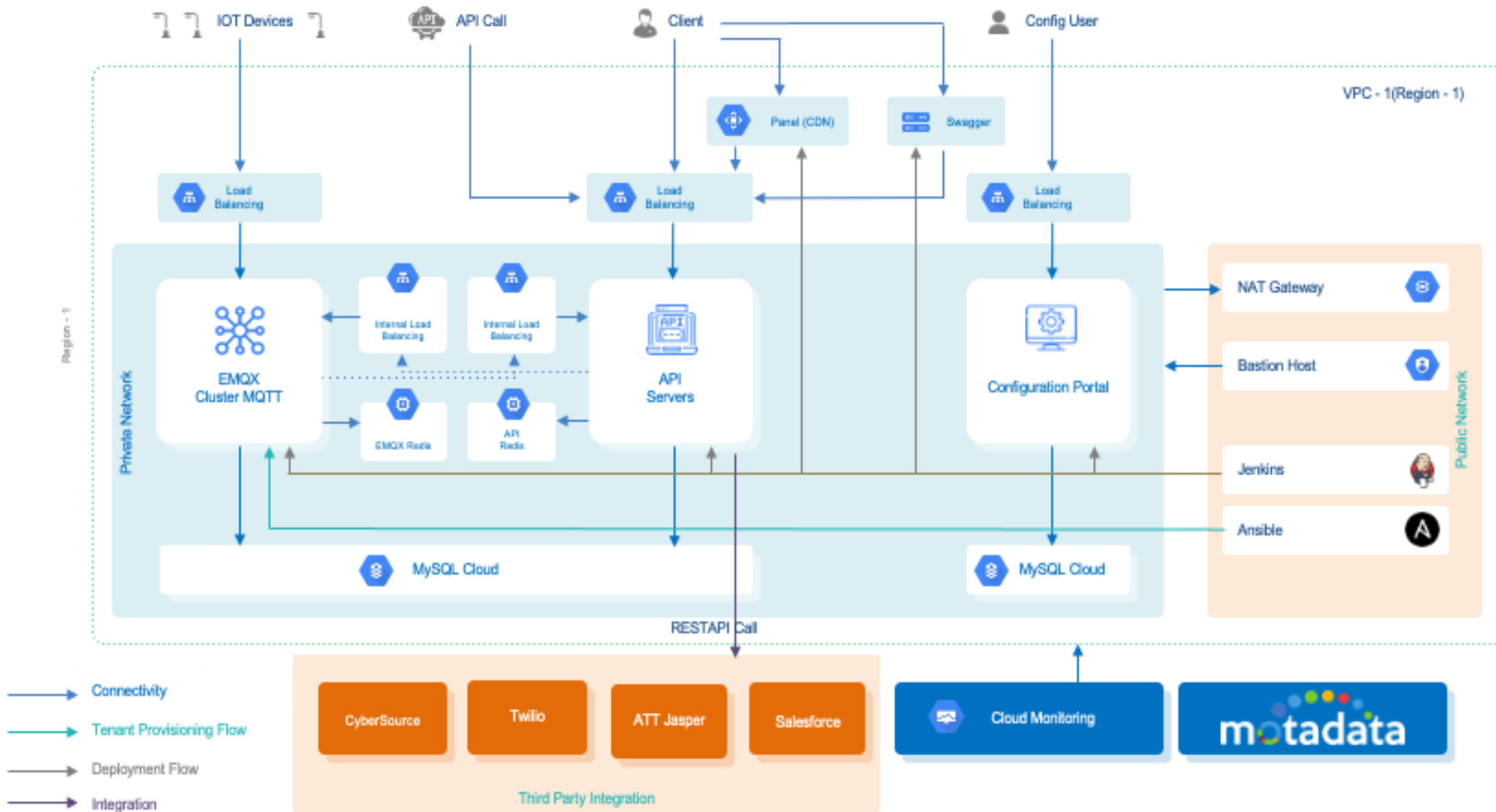
- The process was not entirely automated and was prone to errors and inconsistencies
- Real-time monitoring of the devices, old and new, was a challenge
- System not scalable to IoT streaming data


















Outcomes / Benefits

- Cost saving of 70% on infrastructure without compromising infrastructure reliability
- New customer onboarding time reduced to couple of hours from weeks using multi-tenant architecture
- Reduced infrastructure and application provisioning time from 20-30 hours to 1 hour with unattended automated provisioning
- Lower time to market for new versions by automating QA and integrating the code analysis within development cycle.
- Highly scalable and high-performance system leading to more business opportunities

Cloud Consulting for Infrastructure Consolidation and DevOps Automation



Cloud Consulting for Infrastructure Consolidation and DevOps Automation

Technology	Tools
 Configuration Management	  ANSIBLE Google Cloud
 Build and Deployment	 Jenkins
 Automation Testing and Code Analysis	  Se sonarqube
 Version Control	 GitHub Enterprise
 Public Cloud	 Google Cloud
 Monitoring	  Stackdriver