

HELPED 91MOBILES WITH CLOUD ASSESSMENT, APPLICATION MIGRATION AND CLOUD MANAGED SERVICES



SUCCESS STORY

INDUSTRY:
Startup/Internet

OFFERING:
Cloud Assessment,
Application Migration and
Cloud Managed Services

CUSTOMER OVERVIEW

One of the largest gadget research sites in India that provides tools, latest news, reviews & rich content to help people decide which gadget best suits their needs. The platform also helps users to find best prices/offers for the gadgets. Site is visited by over 15 million gadget enthusiasts every month and has database of more than 45,000 mobiles & electronics devices.



One of the largest gadget research portal in India with over 15 million visitors a month.

Keeping the scalability, performance, security & business continuity in mind, Portal started evaluating public cloud solutions available in the market and decided to move to Amazon Web Services.

Progressive Infotech worked with the engineering team at this portal and ensured a smooth transition to AWS.

Post the migration to AWS, Progressive Infotech is taking care of entire Portal cloud infrastructure as a managed services provider (MSP), monitoring, 24X7 support & remediation, and cloud management services. The next step would be to leverage this partnership and work on innovative solutions for the success of Portal



Bharanidharan Viswanathan

CEO & FOUNDER

91MOBILES

CLOUD ASSESSMENT

The following points were assessed for this portal as a part of Cloud Readiness and Cloud Deployment.

1. Architecture Validation and platform compatibility
2. Licensing Validations
3. Business Criticality
4. Level of Integration
5. Server/ Infrastructure characteristics and configuration
6. Backup and DR validation/requirement
7. Security validation /requirement

Challenges

1. Scalability was a challenge. Scalability was manual and dependent upon the colocation provider
2. Management overhead was quite a burden. This Portal team was managing the entire infrastructure end to end

Cloud Levers

1. Scalability using Auto-Scaling groups
2. Progressive's managed services to manage the entire infrastructure
3. Going towards the micro-services architecture and utilize some native tools like RDS, ElastiCache etc.

Current Landscape

1. Hosted in a colocation environment
2. Website with 3 Interfaces each available for users (Web, Mobile and API)
3. 3-tier architecture of the application with mixed set of databases
4. Entirely Linux workloads which meant licensing was not a challenge
5. High-Level of integration between services.
6. Application with millions of hits per month. Thus, the criticality was immense.

PROOF OF CONCEPT

1. AWS Database Migration Service was used to migrate the databases to AWS RDS
2. A pilot environment was created for testing out the performance and database behavior
3. 2 EC2 instances connecting to the DB were created to emulate the environment of the application
3. Tested the application

DATA MIGRATION

Following Data Storage considerations were done:

1. All EC2 instances with SSD storage
2. Database and cache servers with SSD Storage and Provisioned IOPS
3. Amazon S3 for static content like images and videos

Data Migration

1. Database migration done through AWS database migration service(DMS)
2. Server data replicated through rsync tool
3. Lift and Shift transfer for static and other data
4. IPSec tunnels used for all data traffic to secure the transfers
5. DB Schema issues was resolved using the DMS tool
6. Internet bandwidth to transfer data was mitigated by temporarily upgrading the bandwidth to 100Mbps from the colocation provider.

APPLICATION MIGRATION

Following sequence was followed for the application migration. It was mostly a forklift and cutover migration

1. Database were migrated first
2. One Application Server was migrated and rest were created using the EBS Snapshot of the same
3. Web Servers came next and were similarly provisioned using EBS Snapshots
4. Cache was re-created once the servers got migrated

Following sequence was followed:

1. Website Migration
2. Mobile Website Migration
3. API endpoints migration

Final cutover done with minimal downtime. DNS pointed to AWS

ABOUT PROGRESSIVE INFOTECH

Trusted IT partner since 1998, Progressive Infotech provides a comprehensive suite of transformation and support services. The offerings span across cloud, digital and support operations, delivered through a matured and scalable service delivery model. In every client engagement, Progressive ensures clients realize higher ROI, stretch the intrinsic value of existing IT investments and are better prepared for emergent market changes.

Gartner lists Progressive Infotech as a notable vendor in Magic Quadrant for Public Cloud Infrastructure Managed Service Providers, Worldwide 2018- Asia/Pacific Context.

Experience the outcomes at www.progressive.in
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