Galaxy Technology Services Teams executed a smooth datacenter migration for a leading financial services company.

Customer Name: Confidential

Geography: India

Industry: Banking and Finance

Challenges:

- Migration of all systems and Data with minimal downtime from one datacenter
- Client lacked the expertise and experience to conduct a migration of this size internally
- Existing Production Data Centre existed in its current state, lacking standardization, efficiencies & growth scalability & unable to meet end to end level objectives.
- Existing Production center had obsolete facilities infrastructure either in terms of high power consumption, a large chuck of legacy / unsupported equipments, or poor availability benchmarks.

Setup Details:

- **Mumbai (Site-A): VMAX with 40TB (Production)**
- **PUNE (Site-C): VMAX with 40TB (DR)**
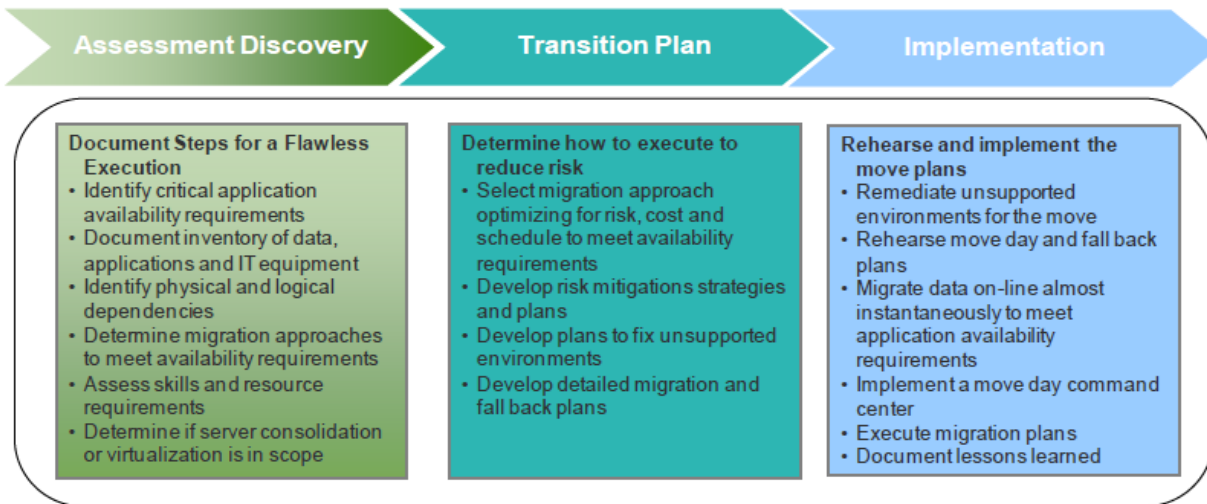- **MAHAPE (Site-B): New site to be setup (New Production)**

Solution:

- Asset Management
- Multi-Phased Migration
- Project and Vendor Management
- System Design and Installation
- Storage Design and Migration
- Relocation of existing Production (FORT, Mumbai) to new DC (MAHAPE, Mumbai)

Assessment Discovery → **Transition Plan** → **Implementation**

Document Steps for a Flawless Execution
- Identify critical application availability requirements
- Document inventory of data, applications and IT equipment
- Identify physical and logical dependencies
- Determine migration approaches to meet availability requirements
- Assess skills and resource requirements
- Determine if server consolidation or virtualization is in scope

Determine how to execute to reduce risk
- Select migration approach optimizing for risk, cost and schedule to meet availability requirements
- Develop risk mitigations strategies and plans
- Develop plans to fix unsupported environments
- Develop detailed migration and fall back plans

Rehearse and implement the move plans
- Remediate unsupported environments for the move
- Rehearse move day and fall back plans
- Migrate data on-line almost instantaneously to meet application availability requirements
- Implement a move day command center
- Execute migration plans
- Document lessons learned

Results

- Successful Migration, test and turn up
- Project completed on schedule and within budget
- Significant operational cost savings
- Zero unscheduled downtime of systems
- A highly available and redundant systems architecture
- Migrated 26TB data across datacentres from dissimilar storage subsystems and cutover to new storage at new datacentre with zero data loss
- Migrated 94 servers comprising of Wintel and Unix across datacenters.
- Setup Racks and power systems with passive cabling with unique colour coding in 1 week migration
- Storage Migration Methodology
  - Step 1: Set up new VSP G Series and virtualize existing VMAX
  - Step 2: Set up Remote Replication from FORT to PUNE(*subject to replication performance. If performance is not good, would need to do VM from external to internal)
  - Step 3-4: Create Local Clone in PUNE and create Remote replication from PUNE to MAHAPE
  - Step 5: Zone DR host path to VSP G800 (*break SRDF) and configure PUNE to test access DR using Local clone copy

- Step 6-7: Shutdown FORT servers (by Applications) and boot up DR using Local Clone
- Step 8: Relocate Fort Servers to Mahape and activate the servers

Achievements:

Our services enabled clients to achieve the following goals:
- Move dependent applications and equipment together
- Meet critical application availability requirements using specialized data migration techniques
- Reduce cost and improve operational efficiencies by centralizing the IT environment
- Limit risk by leveraging the skills of the agency, experienced Galaxy relocation practitioners, and third parties
- Allow IT operations to focus efforts and resources on more critical operational areas

Our data center migration service supported planning and execution of moves for applications, data, IT equipment (such as servers and storage arrays) and the data center infrastructure (such as racks and power systems). These services can helped customer move from one data center to another data center.