The adoption of a factory based cloud migration structure allows organizations to conduct large scale migration to cloud in an efficient manner

- **Well defined operating model**: Framework for organizations to implement a robust operating model that supports mass migration of applications to cloud

- **Enhanced efficiency**: Set of common practices, identified tools and resources to help in the efficient migration of applications

- **Tool based Automation**: Identification of appropriate tools relevant to each migration path which helps enable timely execution of all migration related tasks

- **Uniformity and Standardization**: Applications with similar personas should be migrated using standardized approaches helping to reduce cost and complexity of execution
Key Phases in Enabling Large Scale AWS Migration

Phase 1. Migration Readiness Assessment (MRA)
The enterprise application portfolio is analyzed to assess cloud suitability, optimal landing zone and migration path.

Phase 2. Migration Readiness Planning (MRP)
Migration portfolios are created and a pilot phase is executed to migrate select applications into cloud, thereby establishing a landing zone.

Phase 3. Large Scale Migration Execution
The applications identified are grouped into migration waves and then executed using standard processes and tools.

Phase 4. Multi-Speed IT Transformation
Adopting multi-speed IT through a structured program helps organizations deliver IT services at different speeds to the end users.

Phase 1: Migration Readiness Assessment (MRA)
In this phase, the enterprise application portfolio is analyzed using a suitability and placement assessment framework to help identify migration candidates and the TCO impact.

Step 1: Application Analysis
Conduct portfolio data collection for identified target applications across four dimensions to establish key app characteristics.

Step 2: Cloud Suitability & Placement
Analyze input data to understand
- Cloud suitability
- Optimal landing zone
- Migration path
- Security demands

Step 3: Migration Pattern Decision
Prioritize applications based on tool driven analysis of benefits, functionality, complexity and effort required for migration and security.

Step 4: TCO Analysis & Business Case
Based on migration path and application TCO, create migration roadmap and assess potential impact of migration on TCO.
Phase 2: Migration Readiness Planning (MRP)

The application candidates are organized into migration portfolios and a select few are migrated in a pilot phase to help finalize the operating model and validate the business case.

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<tr>
<th>Category</th>
<th>Activity</th>
<th>Month 1</th>
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<tbody>
<tr>
<td>Strategy and Operating Model</td>
<td>Operating Model Design</td>
<td>Review current op model</td>
<td>List out provider responsibilities</td>
<td>Design target operating model</td>
<td>Review and update operating model design</td>
<td>Operating model defined</td>
<td>Validate cost tracking model</td>
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<td></td>
<td>Migration CoE</td>
<td>Outlining CoE capabilities</td>
<td>Develop/ Implement Migration CoE</td>
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<td>Security and Governance</td>
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<td>Develop security policy</td>
<td>Review policy and sign-off</td>
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<tr>
<td>Team Onboarding</td>
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<td></td>
<td>Pilot Execution</td>
<td>Design architecture</td>
<td>Roll out services (Network, Security, Monitoring, Config)</td>
<td>Finalize foundational services architecture</td>
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<td>Foundation Services</td>
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<td>Prepare AMTs and update patches</td>
<td>Conduct POCs and migration workshops</td>
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<td></td>
<td>Landing Zone Preparation</td>
<td>Take backups and migrate data</td>
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<td></td>
<td>Process Transformation</td>
<td>Review existing processes</td>
<td>Create operations playbooks</td>
<td>Recognize process bottlenecks and resolve them</td>
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<td>Pilot Migration Sprints</td>
<td>Develop migration plan and RACI</td>
<td>Have PMO workshops</td>
<td>Review backlog &amp; decide sprint</td>
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Phase 3: Large Scale Migration Execution

Factory based approach helps organizations have a model with a standard set of processes which will be executed to complete mass migration activities.

**Cloud Migration Factory Model**

**Capability 1 – Foundational Services**

Provides the core capabilities and services that are needed to enable application migration to cloud.

**Capability 2 – Factory Workbenches**

Migrates a number of applications in a short time by completing migration waves through automation and parallel sprints.

**Capability 3 – Cloud CoE**

Implements business & technical capabilities for ensuring that the factory performs in alignment to the objectives set during adoption.
Phase 4: Multi Speed IT Transformation

Multi-speed IT allows delivery of IT services at varying speeds as needed by end-users thereby enabling IT to be a broker of services

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<tr>
<td>Multi-speed IT Target Operating Model (TOM)</td>
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### Strategy and Coordination
Provides the overall governance and oversight for the workstreams

### Integration and Execution
Enables multi-speed IT through a refreshed operating model

### Key Transformation Workstreams
Focuses on different capabilities that the organization needs in order to meet their objective of delivering multi-speed IT services

### Business Functions
Maintains cadence and relationship with key business functions to help ensure business alignment

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Key Migration Accelerators Provided by Deloitte

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<td>Pilot Migration with Ops Runbook</td>
<td>Foundational Services Architecture</td>
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<td>Migration Path Determination</td>
<td>Tools Architecture &amp; Design</td>
<td>Finalized Migration Patterns</td>
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<td>TCO Estimation for Applications</td>
<td>Target Operating Model Design</td>
<td>Factory Structure and Roles</td>
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<td>Minimum Viable Cloud Design</td>
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<td>Multi Speed IT TOM</td>
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