

Achieving Success of Migrating Enterprise Applications to Cloud

Application Development – AD10

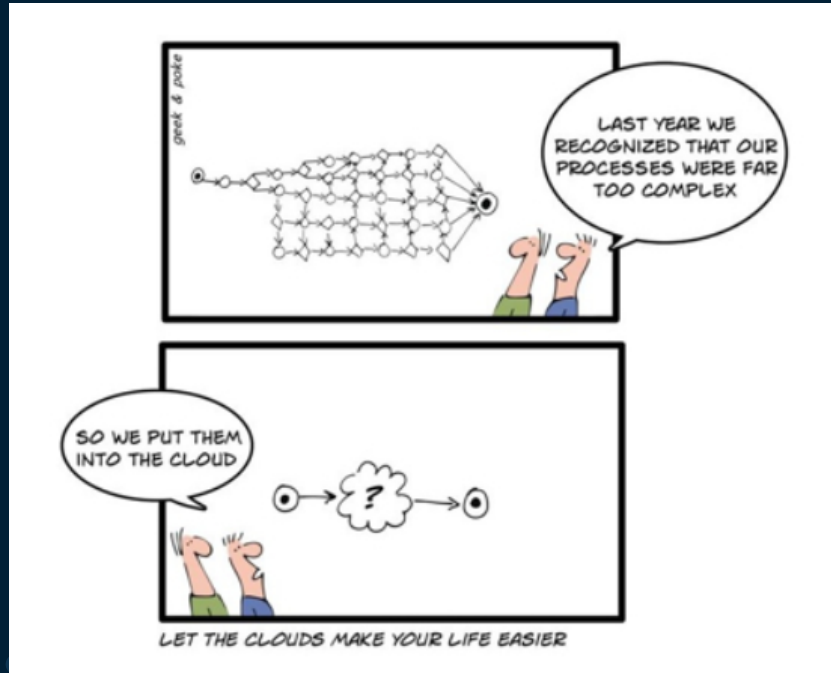
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SAS Institute, Cary, North Carolina, USA



Cloud Migration

What Makes Cloud Migration Project Complex

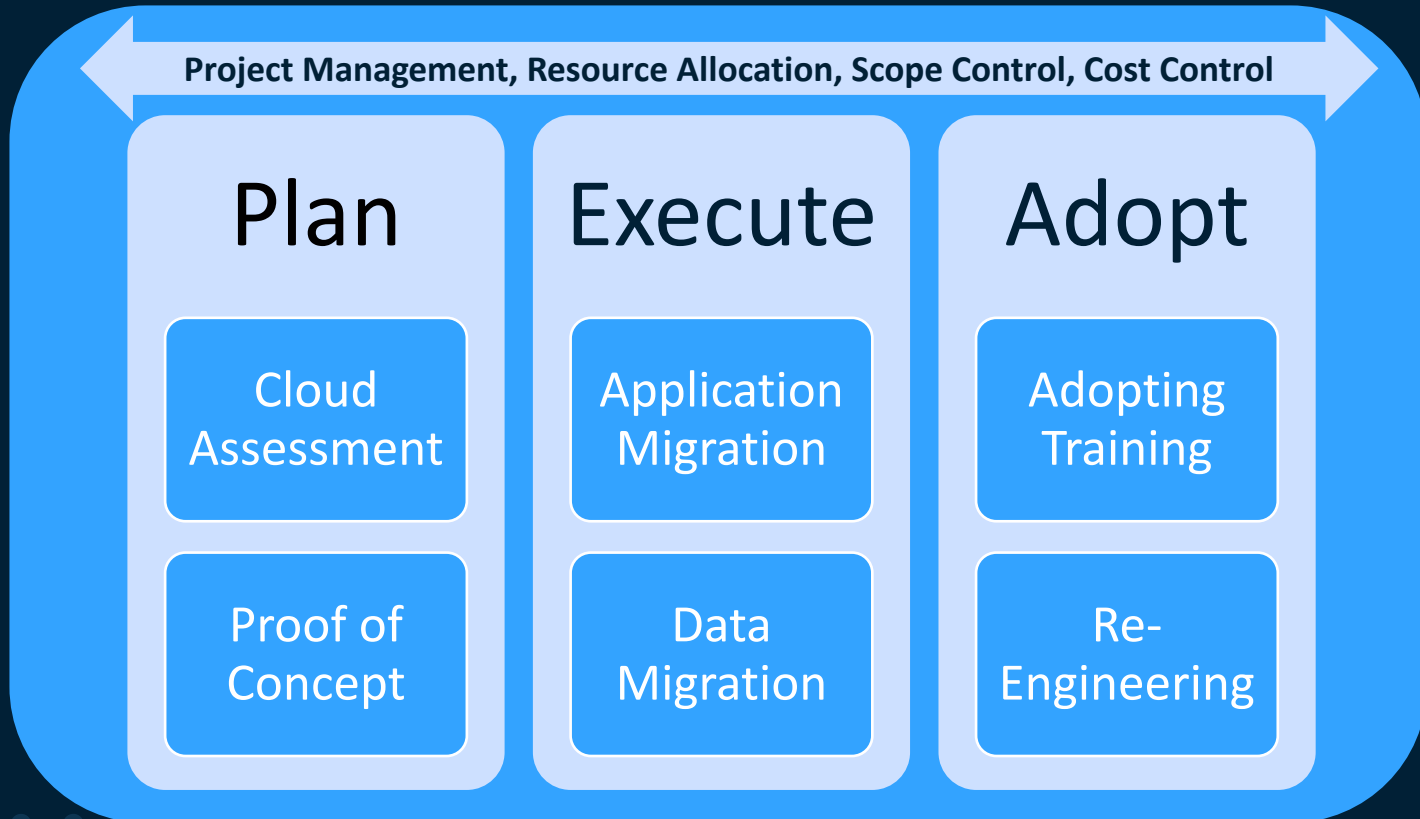


<https://www.datamation.com/news/tech-comics-let-cloud-computing-make-your-life-easier-1.html>



Cloud Migration

What Makes Cloud Migration Project Complex



Cloud Migration

What Makes Cloud Migration Project Complex

Resources | Communications | Stakeholders

of Environments | Data Transfer

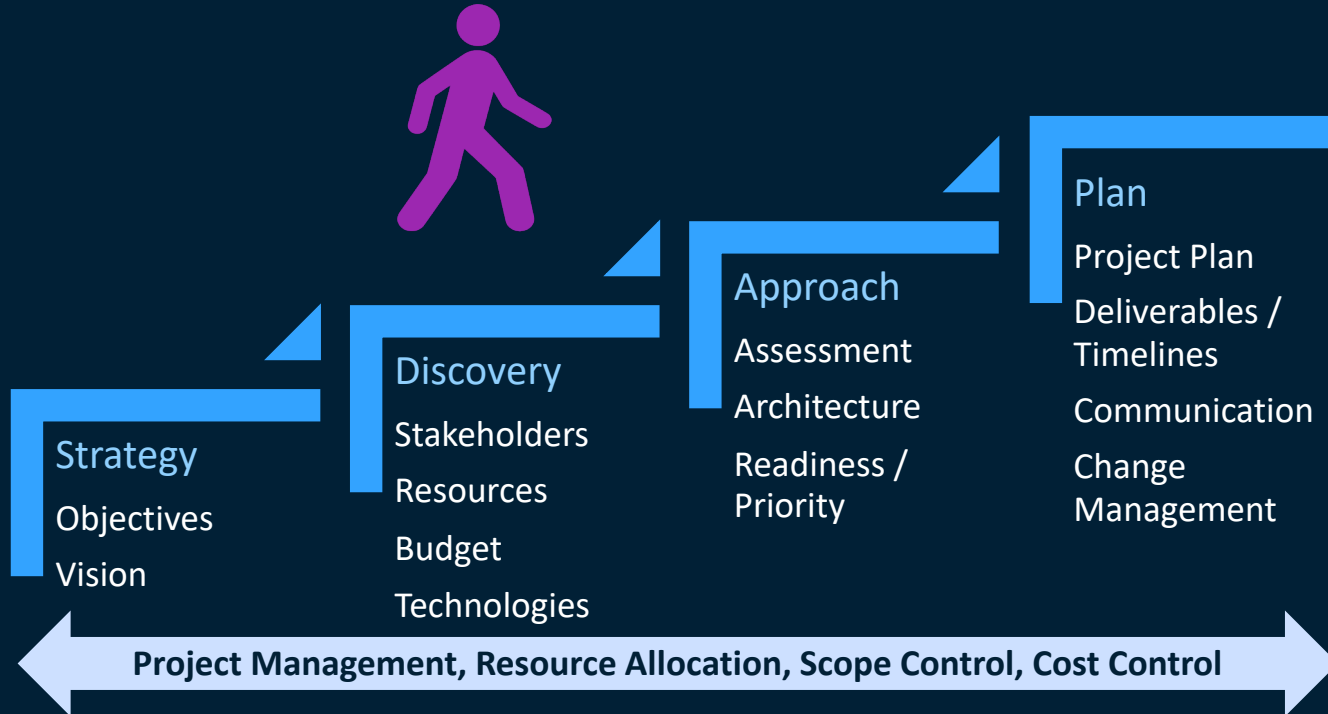
Qualification | Validation | Documentation

API | Customization | 3rd Party Interface | Workflow

Hardware | Software | Network | Database | User Access

Cloud Migration

Plan the Migration

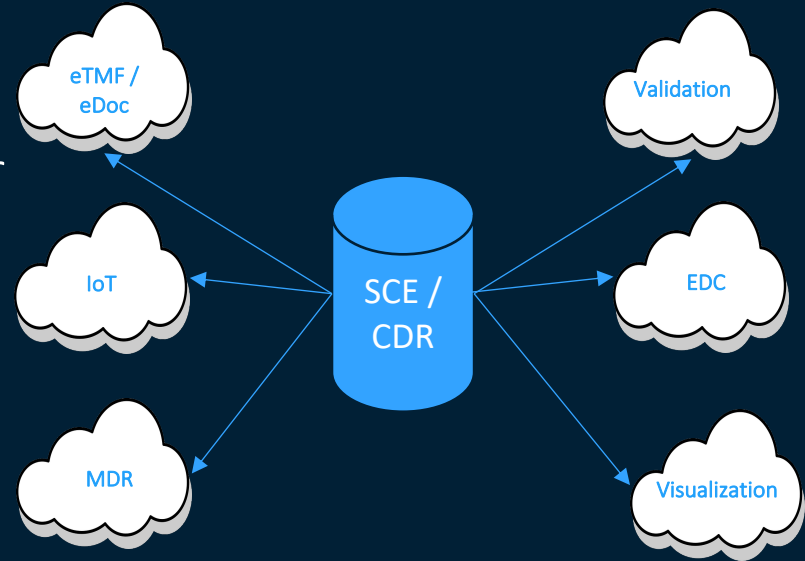


Cloud Migration

Plan the Migration

Strategy – Critical to Define Overall Strategy for Migration Success

- Objectives - Identify key objectives for migration
 - Scalability, disaster recovery
 - Business continuity
 - Modernization
- Vision
 - End goal of migration



Cloud Migration

Plan the Migration

Discovery – resources, technologies, budget

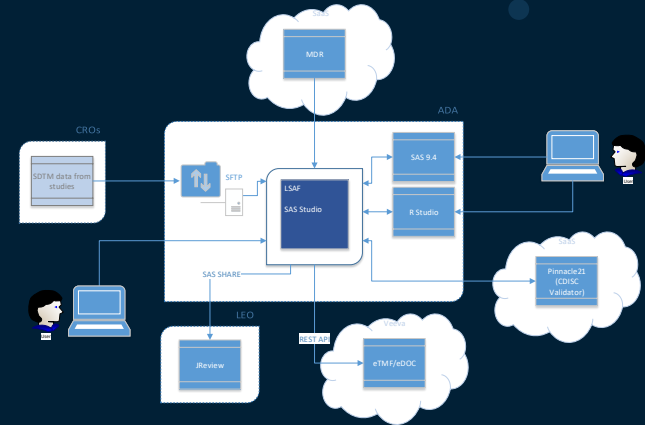
- Project resources
 - Implementation team – internal / external resources
 - Vendor team
- Steering committee
 - Key project sponsors
 - Engagement at kickoff
- Technologies
 - Hardware and network resources
 - Identify old technologies/ applications to retire and new to adapt
 - Release management / continuous integration / continuous delivery
- Budget
 - Cost estimation for migration activities
 - Phased budgeting process

Cloud Migration

Plan the Migration

Approach – Define the approach to migration project

- Assessment
 - Financial, security & compliance, technical & functional assessment
- Architect
 - Define application components for each Environment
- Readiness / priority
 - Verify the availability of resources, technologies, and budget
 - Define the project priority and project owner



Cloud Migration

Plan the Migration

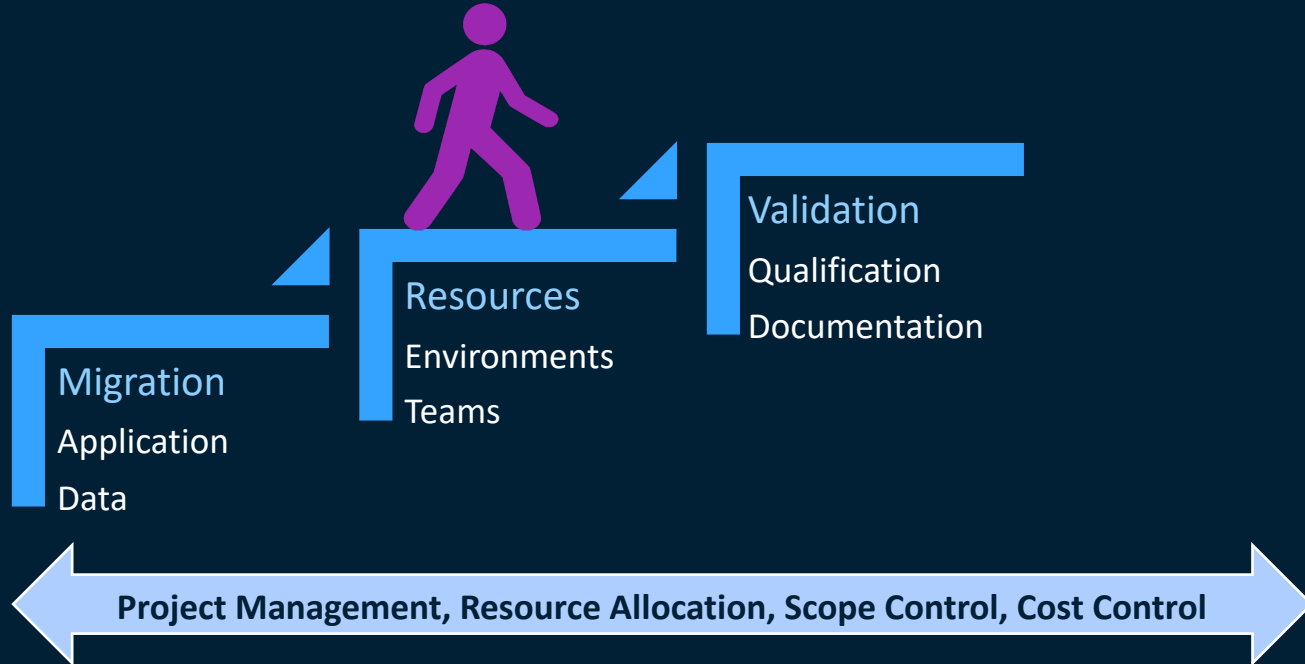
Plan – Plan various activities for migration project

- Project plan
 - Identify various activity streams and various activities
 - Develop the project schedule
- Deliverables / timelines
 - Define Deliverable dependencies and their timelines
- Communication
 - Define meeting(s) frequency and status checks
 - Define various stakeholders / steering committee update frequency



Cloud Migration

Execute Migration



Cloud Migration

Execute Migration

Migration – Execute migration activities

- Application
 - Lift & shift migration
 - Hybrid (piece-wise) migration
- Data
 - Transfer data via web or disk
 - Priority order of data components
 - Data transcoding



<https://geekshumor.com/are-you-sure-this-is-how-we-get-data/>

Cloud Migration

Execute Migration

Resources – Availability of resources

- Teams
 - Implementation team – Internal / external
 - Resource availability around project timelines
 - Stakeholders
- Environment
 - Development / Test / Production
 - Configuration management

Core Team

Name	Role
	Project Manager
	Business Lead
	Tech SME
	Architect
	Consultant
	3 rd party implementer
	Business Analyst
	PM Assistant

Cloud Migration

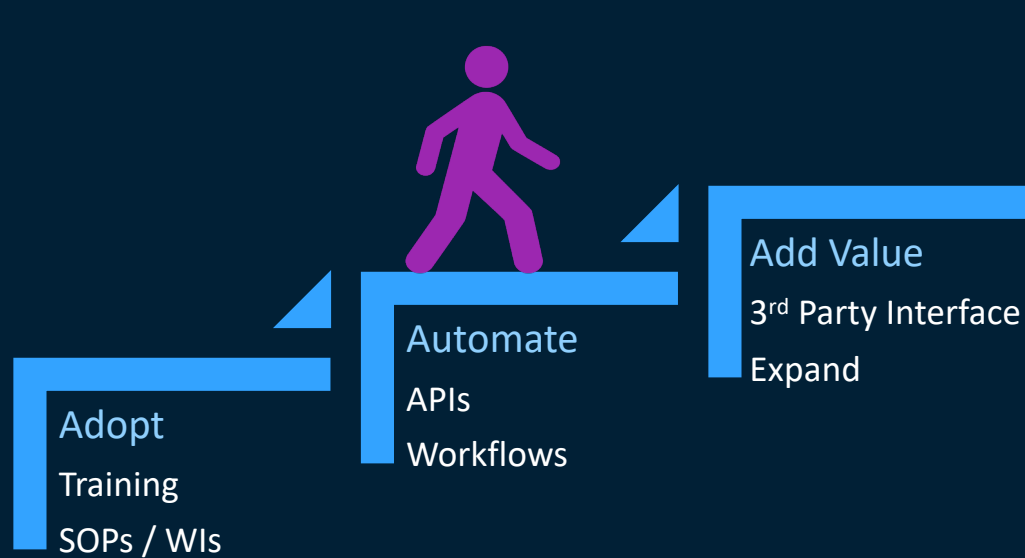
Execute Migration

Validation / Qualification / Compliance Standards

- Qualification
 - Define qualification process for environments
 - Qualified vs. non-qualified - Development / Test / Production
- Documentation
 - Requirements / design / baseline testing / UAT / requirements traceability matrix
 - Additional documentation to meet compliance requirements

Cloud Migration

Adopt, Automate, Add Value



Cloud Migration

Adopt, Automate, Add Value

Adopt Process Changes

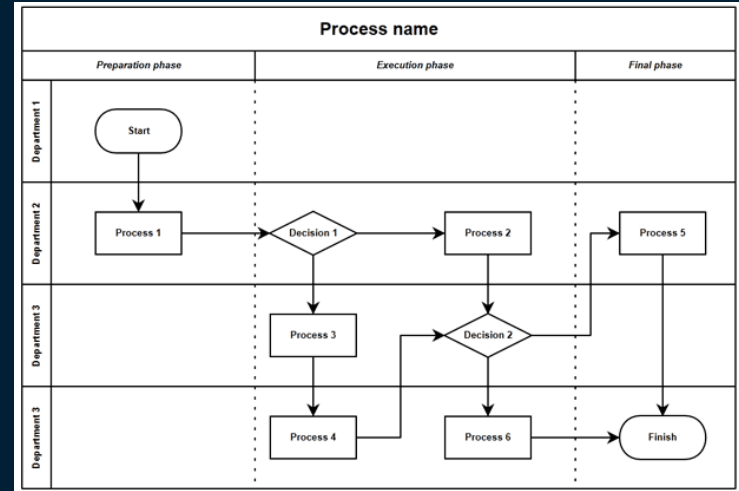
- Training
 - Train users based on their roles and profiles
- SOPs / work instructions
 - Update standard operating procedures and work instructions

Cloud Migration

Adopt, Automate, Add Value

Automate

- APIs
 - Use APIs to automate repetitive tasks
- Workflows
 - Convert business processes to workflows and enforce business practices



Cloud Migration

Adopt, Automate, Add Value

Add value – Create / expand ecosystem

- 3rd Party Interfaces
 - Integrate and automate data transfer with 3rd party interfaces
- Expand
 - Increase flexibility and productivity

Cloud Migration

All the Steps Together



Cloud Migration

Practical Considerations

- Regular communication - Internal and external / oral and written
 - Consider different audiences and their needs
 - Project working sessions vs technical meetings vs project status reporting
- Multiple dialects and levels of language proficiency
 - Strong verbs short sentences
 - No idioms
 - Clear enunciation
 - Slow down when speaking
 - Utilize conference technology to increase understanding
- Escalations (as needed) – Managers, steering committee
 - Establish these peer relationships at kickoff and nurture throughout to ease movement through escalations

Cloud Migration

Practical Considerations

- Third party contractors on the customer team
 - Key information exchange funneled through contractors
 - Restricted access to customer subject matter experts
 - Challenge to connect with the expert for input or customer decision maker
- User's product / process maturity
 - Unfamiliar product to traditional legacy system users
 - Lack of designated subject matter experts for the new cloud environment
- Schedule planning
 - Summer / winter holidays – July / August / December
 - Key customer project team members on leave



Cloud Migration

Practical Considerations

- Alignment
 - Work with sales, implementation and customer teams while planning the project to uncover and remedy gaps in project handoff
- Internal processes and assets in flux during project
 - Ensure that vendors and suppliers are aligned with the correct version of products for application compatibility
 - Up to date documentation
- Technical challenges
 - Legacy apps (out-of-support application)
 - Custom reports and utilities
 - Environment planning



Cloud Migration

Realizing ROI

- Planning
- Training
- Scope management
- Cost management
- Trade-off decisions (pick two: speed, quality, cost)

Questions



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