

CHECKLIST

Preparing for Cloud Modernization

Though a move to the cloud may not be the immediate next step in your organization's IT strategy, it is likely that such a migration will eventually be critical to long-term success. If you're contemplating (or already planning on) a move to the cloud and need to modernize your applications, then you need to be prepared. Use this checklist to give you a head start on your modernization journey to ensure success from the beginning!

Technical

DISCOVERY ON YOUR EXISTING MAINFRAME

Conduct a technical assessment to help understand your existing systems to set a baseline for a transformation.

CODEBASE

- ☐ Existing languages (primary sub-languages)
- ☐ Lines of code and comments
- ☐ Readability and completeness of application documentation
- ☐ Blackbox libraries

SCREEN (user interface)

- ☐ Types (graphical or text-based)
- ☐ Interoperability between applications
- ☐ Usability
- ☐ Feature assessment

DATABASES

- ☐ Database platform(s) & version(s)
- ☐ Database Metrics (size, Tables, Columns, etc.)
- ☐ Database type(s), e.g., flat file, relational, mid-range, etc.
- ☐ Connection nodes to application codebase & other services

SERVICES

- ☐ Licensing agreements
- ☐ Tool feasibility
- ☐ Assessment of needs

OTHER METRICS

- ☐ MIPS consumption
- ☐ Transactions & transaction volumes
- ☐ Third-party tools & services
- ☐ Customized tools
- ☐ Undocumented tools (may be discoverable via an application blueprint process)

Technical

PHYSICAL MAINFRAME REVIEW

Examines system architecture, technical services in use, and analysis of both internal and external services/applications.

- ☐ Existing architecture survey
- ☐ Architecture diagram evaluation
- ☐ External applications assessment
- ☐ Utilities and services assessment
- ☐ Services overlap within the full application portfolio
- ☐ Performance, quality, and security baselines and metrics

SMEs/PERSONNEL

Have an understanding of who on the team is able to maintain and develop on your existing systems.

- ☐ Survey of staffing (existing and future)
- ☐ Assessment of team's working knowledge of applications
- ☐ Talent assessment within market

Business

Once you have completed a technical analysis and your IT leaders understand your existing systems, establish your organization's business cases to modernize your applications and support a modern environment.

NEEDS ASSESSMENT

- ☐ Timeframe for project phases and project completion
- ☐ Market and internal demands
- ☐ Then vs. now: evolution of your customer and business needs
- ☐ Modern workflows and accessibility
- ☐ Security posture

CURRENT FINANCIAL STATE

- ☐ Total cost of mainframe and application ownership
- ☐ Mainframe operating expenses
- ☐ Capital expenditures
- ☐ Amortized costs

INTANGIBLE COSTS BEYOND PRICE

- ☐ Market agility
- ☐ Business requirement agility
- ☐ Availability of developers that support legacy systems

