Drive innovation with Brillio's AWS Cloud migration strategy

Brillio's 4-phase cloud migration approach helps clients migrate to AWS with confidence and bolsters efficiency and performance.

Why migrate to AWS Cloud?

Transforming with AWS Cloud helps enterprises unlock new paths for growth and innovation. The pay-as-you-go model reduces infrastructure costs, allowing businesses to optimize their resources and respond to market demands swiftly. With AWS's advanced services, one can accelerate time-to-market, deliver personalized customer experiences using AI and analytics, and streamline operations for maximum efficiency. AWS Cloud's security and compliance tools protect sensitive data and address regulatory requirements with confidence. Furthermore, robust disaster recovery (DR) solutions ensure 24x7 availability, eliminating disruption to business.

Brillio's phased cloud **migration approach**

Brillio's proven cloud migration and transformation approach aligns with industry best practices, ensuring a risk-free, seamless transition to AWS Cloud. The approach has **four phases** as follows:

Discover

- Collect inventory details for servers, storage, and network components
- Gather data on application portfolios, technologies, operating systems, and dependencies
- Use tools, questionnaires, and interviews to capture information
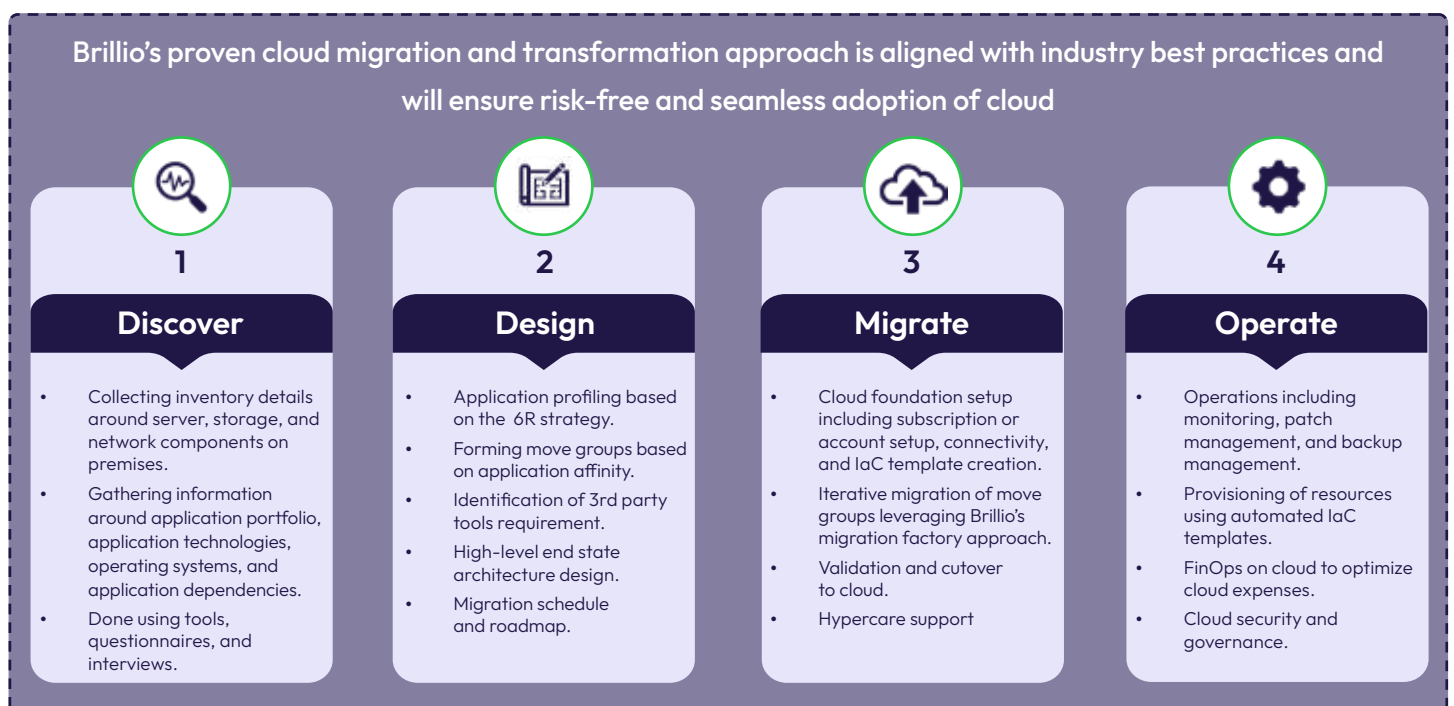
Design

- Build profile applications using the AWS 6R strategy (Rehost, Replatform, Rearchitect, Repurchase, Retire, and Retain)
- Identify group applications based on affinity and the required third-party tools
- Create a high-level architecture design
- Define the migration schedule and roadmap

Migrate

- Set up cloud foundations, including subscriptions, accounts, connectivity, and IaC templates
- Migrate applications iteratively using Brillio's migration factory approach
- Validate and cut over to the cloud
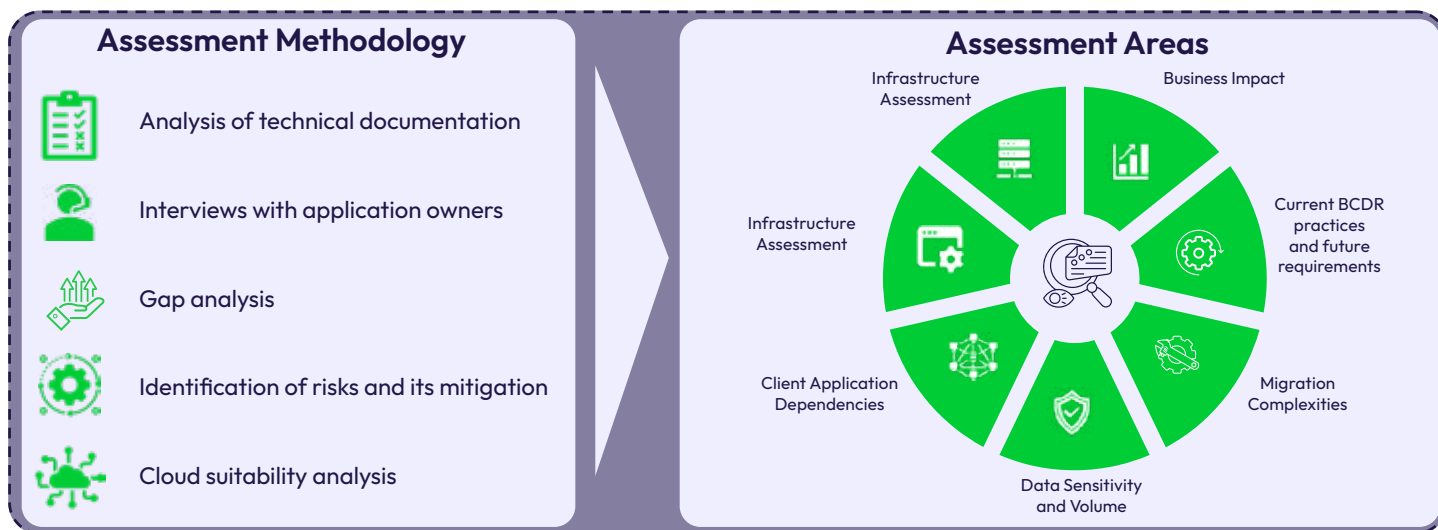- Provide hypercare support

Operate

- Monitor, patch, and back up cloud environments
- Automate resource provisioning with IaC templates
- Optimize costs through FinOps
- Enforce cloud security and governance

Brillio's proven cloud migration and transformation approach is aligned with industry best practices and will ensure risk-free and seamless adoption of cloud

1 — Discover

- Collecting inventory details around server, storage, and network components on premises.
- Gathering information around application portfolio, application technologies, operating systems, and application dependencies.
- Done using tools, questionnaires, and interviews.

2 — Design

- Application profiling based on the 6R strategy.
- Forming move groups based on application affinity.
- Identification of 3rd party tools requirement.
- High-level end state architecture design.
- Migration schedule and roadmap.

3 — Migrate

- Cloud foundation setup including subscription or account setup, connectivity, and IaC template creation.
- Iterative migration of move groups leveraging Brillio's migration factory approach.
- Validation and cutover to cloud.
- Hypercare support

4 — Operate

- Operations including monitoring, patch management, and backup management.
- Provisioning of resources using automated IaC templates.
- FinOps on cloud to optimize cloud expenses.
- Cloud security and governance.

Brillio's assessment **framework**

The assessment framework covers six key focus areas and evaluates a client's applications and infrastructure for AWS Cloud suitability and migration readiness. This holistic evaluation covers multiple dimensions, risks, potential for scalability, and future-readiness, enhancing preparedness to align the migration strategy with the client's operational and business objectives.

Assessment Methodology

- Analysis of technical documentation
- Interviews with application owners
- Gap analysis
- Identification of risks and its mitigation
- Cloud suitability analysis

Assessment Areas

- Infrastructure Assessment
- Business Impact
- Current BCDR practices and future requirements
- Migration Complexities
- Data Sensitivity and Volume
- Client Application Dependencies
- Infrastructure Assessment

Brillio's AWS readiness **assessment approach**

Preparation and planning

Brillio kicks off the project by onboarding resources and aligning stakeholders on the way forward. The team collects inputs through questionnaires to understand the client's business vision and objectives. The activities include:

- Setting up communication channels
- Conducting a project initiation meeting
- Reviewing readiness for the kickoff

Additional documents, such as server utilization reports, CMDB, and licensing inventories, are gathered to ensure preparedness.

 (What are the deliverables? Kickoff presentation, stakeholder surveys, and cadence setup.)

Discovery

Brillio's team conducts workshops and strategic discussions to identify dependencies between applications, databases, and infrastructure. At this point, the team analyzes and assesses migration implications, licensing requirements, and technical challenges. These insights help align the technical goals with the overall business objectives and AWS migration needs.

(What are the deliverables? Current state report and assessment.)

Assessment and analysis

Brillio examines the technical considerations for server and database migrations, covering schema migration, data transfer methods, and synchronization techniques. We estimate the financial benefits of AWS migration and address security controls and compliance requirements. We then draft recommendations for instance sizing and cost optimization.

(What are the deliverables? Gap analysis, target state capability report, licensing recommendations, and a security and compliance plan.)
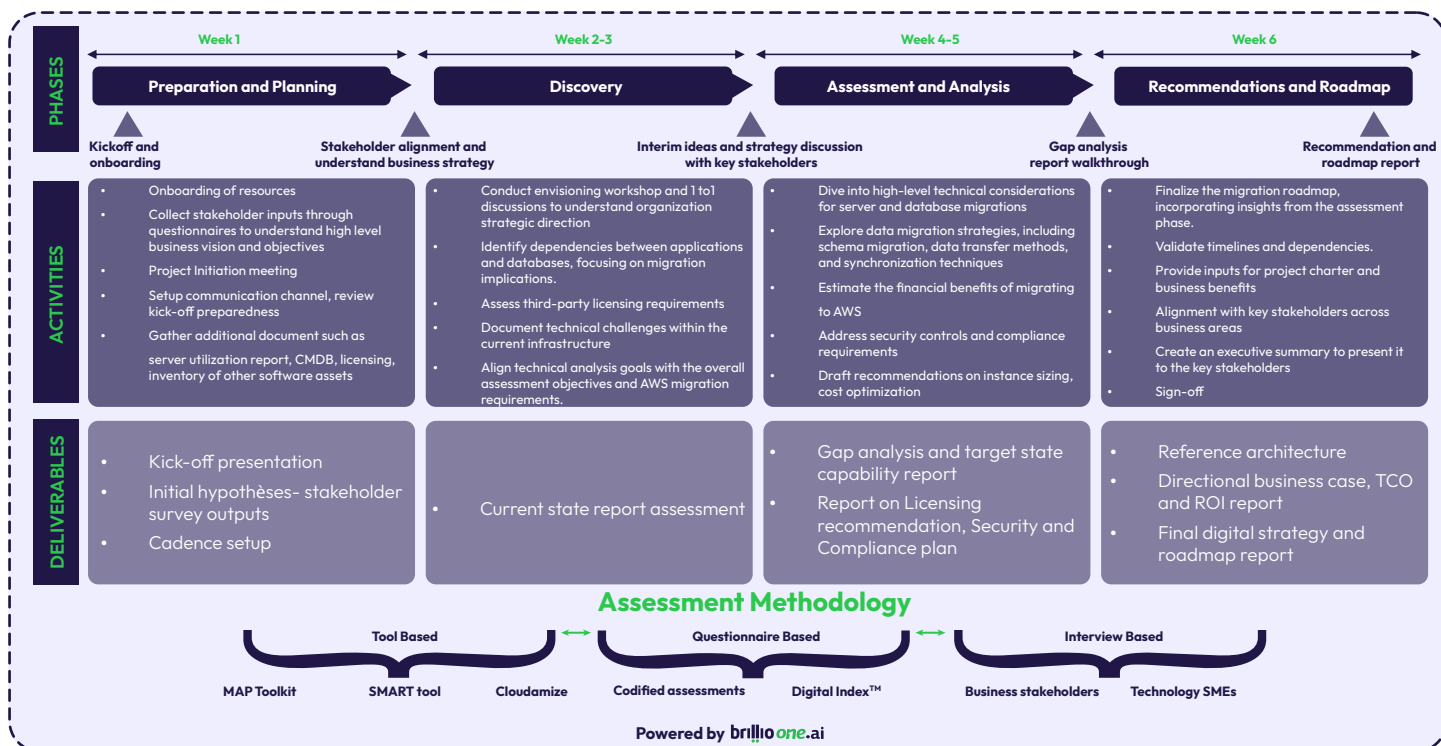
Recommendation and roadmap

The team finalizes the migration roadmap, validating timelines and dependencies. Business benefits and project charters are provided, and stakeholders across business areas are aligned. The engagement concludes with an executive summary and stakeholder sign-off.

(What are the deliverables? Reference architecture, directional business case, TCO and ROI reports, and the final digital strategy and roadmap report.)

Assessment methodology

Brillio uses a mix of tool-based (MAP Toolkit, SMART Tool, Cloudamize), questionnaire-based (codified assessments, Digital Index™), and interview-based (business stakeholders, technology SMEs) approaches to gather insights and provide robust recommendations. Brillio will conduct a 4 to 6-week assessment exercise to understand the current infrastructure landscape, gather requirements, and develop an execution plan to partner with clients on the AWS cloud migration proposal.

PHASES	Week 1	Week 2-3	Week 4-5	Week 6
	Preparation and Planning	**Discovery**	**Assessment and Analysis**	**Recommendations and Roadmap**
	Kickoff and onboarding	Stakeholder alignment and understand business strategy	Interim ideas and strategy discussion with key stakeholders	Gap analysis report walkthrough / Recommendation and roadmap report
ACTIVITIES	• Onboarding of resources • Collect stakeholder inputs through questionnaires to understand high level business vision and objectives • Project Initiation meeting • Setup communication channel, review kick-off preparedness • Gather additional document such as server utilization report, CMDB, licensing, inventory of other software assets	• Conduct envisioning workshop and 1to1 discussions to understand organization strategic direction • Identify dependencies between applications and databases, focusing on migration implications. • Assess third-party licensing requirements • Document technical challenges within the current infrastructure • Align technical analysis goals with the overall assessment objectives and AWS migration requirements.	• Dive into high-level technical considerations for server and database migrations • Explore data migration strategies, including schema migration, data transfer methods, and synchronization techniques • Estimate the financial benefits of migrating to AWS • Address security controls and compliance requirements • Draft recommendations on instance sizing, cost optimization	• Finalize the migration roadmap, incorporating insights from the assessment phase. • Validate timelines and dependencies. • Provide inputs for project charter and business benefits • Alignment with key stakeholders across business areas • Create an executive summary to present it to the key stakeholders • Sign-off
DELIVERABLES	• Kick-off presentation • Initial hypothèses- stakeholder survey outputs • Cadence setup	• Current state report assessment	• Gap analysis and target state capability report • Report on Licensing recommendation, Security and Compliance plan	• Reference architecture • Directional business case, TCO and ROI report • Final digital strategy and roadmap report

Assessment Methodology

Tool Based	Questionnaire Based	Interview Based
MAP Toolkit · SMART tool · Cloudamize	Codified assessments · Digital Index™	Business stakeholders · Technology SMEs

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Next Step

2 Weeks	1 Week	1 Week
Re-baseline the current set of apps to be migrated	Review and establish the app and portfolio taxonomy	Setup governance and change management process

Real-world **success stories**

A global leader in temperature-controlled industrial REIT and logistics solutions embraces automation and optimizes its business operations with AWS Cloud.

Client

The client is a global leader in temperature-controlled industrial REIT and logistics solutions. Its expertise spans end-to-end logistical solutions, unrivaled real estate networks, and the use of technology to promote food safety, increase distribution efficiency, advance sustainability, lessen environmental impact, and minimize supply chain waste.

Challenge

The client wanted to empower its workforce to operate securely from anywhere via remote access. However, providing access to applications and recovering resources proved to be time-consuming and expensive. Furthermore, manual intervention to expand shrinking resources led to reduced agility and rising costs. There was an urgent need for automation to eliminate redundancies and optimize business operations.

Solution

- Brillio's Technologies and Modern Workplaces Advisory professionals conducted an in-depth analysis of the client's IT infrastructure and business needs, deducing that adopting AWS workspaces was necessary.
- The solution enabled the provisioning of Windows and Linux desktops within minutes, allowing remote users to access applications from any device.
- The engagement also entailed deploying high-performance desktops for developers and engineers to facilitate data storage and access. Brillio's solution eliminated the need for shipping hardware or network installations and empowered the client to scale up or down while effectively managing desktop instances.

Outcome

- Simplified backup and enhanced security through encryption and multi-factor authentication protocols.
- Reduced housekeeping overheads, enabling the client to redeploy internal resources seamlessly.
- Streamlined budget planning and forecasting with a pay-as-you-go pricing model.
- Increased productivity through enhanced uptime levels, better performance, and enhanced collaboration opportunities.

Business impact

- **99%** uptime against system breakdown
- **Robust** and **scalable** infrastructure
- **75%** reduction in provisioning time

Real-world **success stories**

A US fast food chain recognized for its consistency in service across a global network of locations reduces operational overheads and saves on data storage costs.

Challenge

The client's UK setup comprised of expensive physical data centers that weren't aligned with its cloud setup globally. Hence, the client wanted to kickstart its cloud journey in the UK by hosting a new data lake solution on AWS Cloud. The challenge was to reduce operational overheads and align with global teams.

Solution

- Brillio set up the client's infrastructure using Terraform and used infrastructure-as-a-code for the deployment.
- AWS Data Lake was the central data repository for product and user needs.
- As part of the architecture, three dedicated AWS virtual private clouds were set up for the security, development, and production environments.
- An AWS data pipeline orchestrated data integration and transformation across the data platform.
- DR and backup were set up by leveraging AWS Backup—an AWS native service.

Outcome

- Brillio's platform helped the client onboard more users in the UK onto the platform without any significant costs. The platform could scale up seamlessly based on user addition.
- The centralized data storage enabled users in reporting and data science to have a single source of truth for building models and reports.
- The transition to AWS meant that the client completely aligned with its global team policies.

Business impact

- **99%** reduction in time spent to obtain variables from feature store
- **Centralized** data governance
- **70%** cost savings in data storage

About Brillio

Brillio is one of the fastest growing digital technology service providers and the partner of choice for many Fortune 1000 companies seeking to turn disruption into a competitive advantage through innovative digital adoption. We help clients harness the transformative potential of the four superpowers of technology: cloud computing, Internet of Things (IoT), artificial intelligence (AI) and mobility. Born digital in 2014, we apply our expertise in customer experience solutions, data analytics and AI, digital infrastructure and security, and platform and product engineering to help clients quickly innovate for growth, create digital products, build service platforms, and drive smarter, data-driven performance. With 17 locations across the U.S., the UK, Romania, Canada, Mexico, and India, our growing global workforce of nearly 6,000 Brillians blends the latest technology and design thinking with digital fluency to solve complex business problems and drive competitive differentiation for our clients. Brillio has been certified by Great Place to Work since 2021.

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