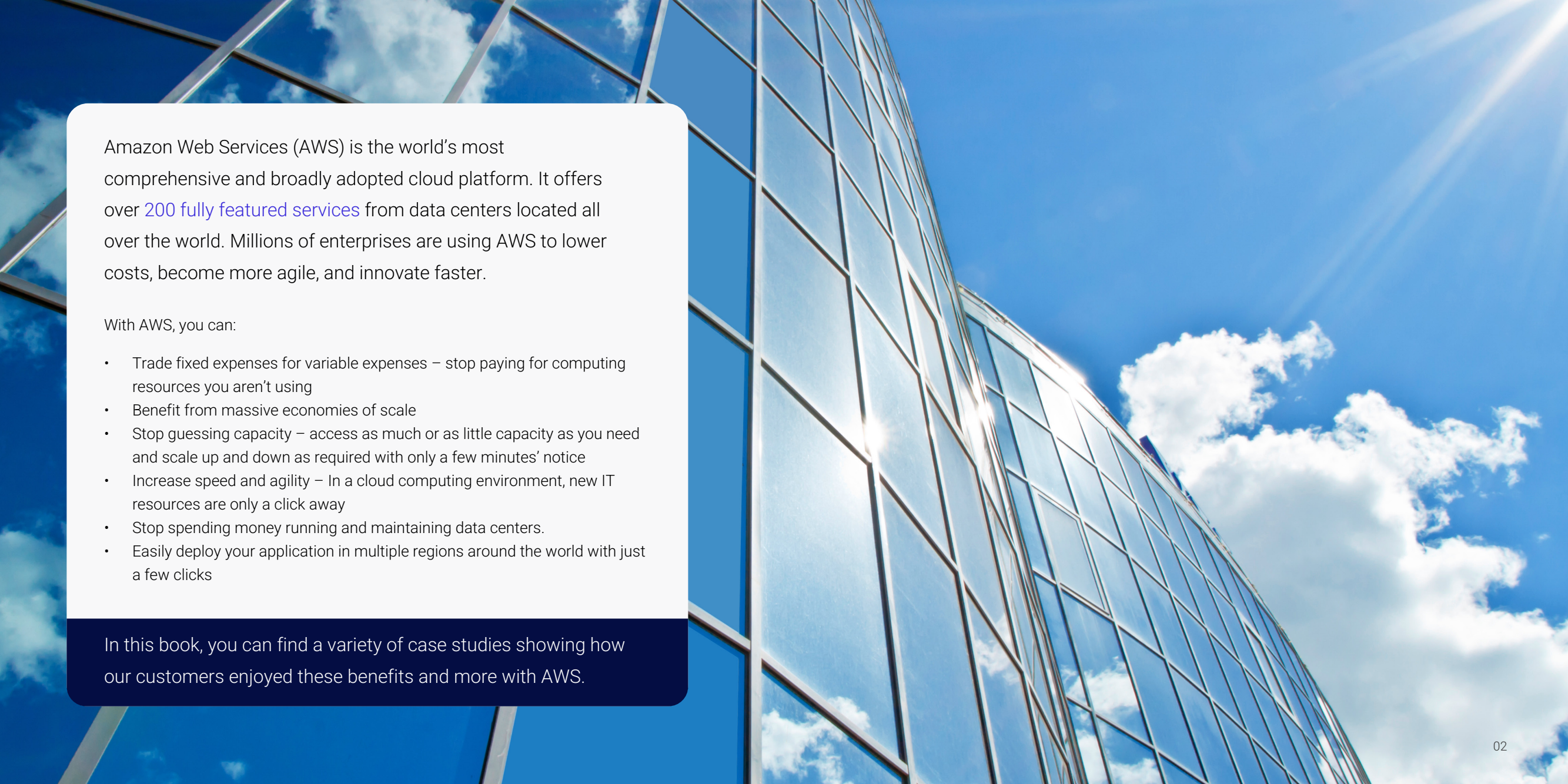


Flipbook

November 2023

Hexaware AWS Capability Overview





Amazon Web Services (AWS) is the world's most comprehensive and broadly adopted cloud platform. It offers over **200 fully featured services** from data centers located all over the world. Millions of enterprises are using AWS to lower costs, become more agile, and innovate faster.

With AWS, you can:

- Trade fixed expenses for variable expenses – stop paying for computing resources you aren't using
- Benefit from massive economies of scale
- Stop guessing capacity – access as much or as little capacity as you need and scale up and down as required with only a few minutes' notice
- Increase speed and agility – In a cloud computing environment, new IT resources are only a click away
- Stop spending money running and maintaining data centers.
- Easily deploy your application in multiple regions around the world with just a few clicks

In this book, you can find a variety of case studies showing how our customers enjoyed these benefits and more with AWS.

Build

We help enterprises to focus on their digital product and software development needs through a business-value lens, [driving an optimized selection of features and capabilities](#) to build more value with less churn.



Leverages

20+

AWS Services
Including a serverless
framework and
microservices

A Mobile Event Platform for a Flagship User Conference in North America

Business Problem

Visitors to a flagship user conference were struggling to find their way around and reserve their spot for educational sessions while attending a large and complex event

Solution

- Leverages 20+ AWS services including a serverless framework and microservices
- Provides an intuitive user experience with personalized recommendations
- Spans multiple channels including mobile and web
- Offers a robust feature set; browse sessions, reserve seats, explore the campus, play games, and stay connected

Client Benefits

- 23% more iOS users
- 27% more Android users
- 43 sessions per user on average
- 37,000 more app downloads than the previous year
- 18% increase in the average number of screens



Enabling Data-as-a-Service for Effortless Data Sharing for Largest Data Company in Healthcare Sector

Business Problem

One of the largest data companies in the Healthcare sector, with over 20 Datacenters was facing challenges in sharing data with customers and partners

Solution

- After performing an Automated assessment using Amaze®, Hexaware proposed a modern cloud-based architecture leveraging the power of AWS and Snowflake
- A cloud Big Data tenant was established, seamlessly integrating diverse real-time and batch data from various sources
- After refining and consolidating the data (cleansing, deduplication, bridging, etc.), it was mapped to a unified data model and migrated to the cloud
- Leveraging Snowflake, AWS Redshift, and Databricks, Data-as-a-Service (DaaS) was enabled for our clients. It helped customers to have easy access to their datasets and third-party data in a standardized structure from one centralized location

Client Benefits

- Processing 1M+ data feeds from 140K data providers.
- 75% reduction in manual effort of data cleansing & formatting
- Over 80% faster delivery of analytics, including Brand Diagnostics, Competitor Analysis, Prescription Analysis, Patient Analysis, Product Strategy, and Sales & Promotion Analytics

Modernize

We enable strategic modernization of legacy infrastructure, platform, and data stacks into modern, [adaptive technology foundation](#) for agile business needs.



Streamlining Financial Analytics for an American multinational data analytics and risk assessment firm with Migration to Amazon Redshift

Business Problem

Limited SQL Server scalability led to performance bottlenecks, complex integration, and high maintenance costs

Solution

- Migrated 10,000 databases to AWS S3 (staging) and Amazon Redshift, enhancing scalability & data management
- Converted SQL Server schema to Amazon Redshift, optimizing for cloud architecture compatibility
- Automated ETL with AWS Glue, transitioning from Pentaho for improved data flow
- Transformed T-SQL scripts to ANSI SQL, ensuring smooth operation on Amazon Redshift
- Implemented Airflow for scripting automation and efficient stored procedure management
- Classified data, applying S3 lifecycle policies for cost-effective storage and retrieval

Client Benefits

- 10x faster query execution time on Amazon Redshift
- Automated conversion of scripts accelerated the process by 60%
- Easier cross-referencing and analysis of diverse benchmarking datasets enabled comprehensive insights

10_x
faster query
execution time



Multi-source Data Consolidation on AWS for a Reputed Insurance Broker and Financial Services Provider Based in England

Business Problem

Decentralized and fragmented data prevented a holistic view of business, hindering data accessibility and analysis

Solution

- Built an AWS S3 Data Lake for scalable data consolidation and management
- Utilized AWS Lambda and EventBridge for efficient data ingestion and event orchestration
- Automated data cataloging with AWS Glue for streamlined data discovery and organization
- Developed AWS Glue ETL pipelines for seamless data integration and transformation
- Standardized data handling patterns, enabling reusable AWS Glue PySpark jobs
- Enabled data accessibility and analysis through Amazon Athena for end-user insights

Client Benefits

- Access to real time data to amplifying customer experience
- Faster time-to-market with data-driven products and offerings
- Data-as-a-Service (DaaS) – providing self-service capabilities to business users
- 80% reduction in data engineering time
- 70% accelerated data pipeline development



Reduced
Infrastructure TCO by

30%

Tackling Legacy Ecosystem Challenges for a Mortgage Financing Company

Business Problem

Performance issues and lack of scalability due to outdated legacy applications were resolved through the introduction of new functionalities, ensuring a rich customer experience

Solution

- Hexaware implemented an Application and Data Modernization Solution for our customer in the solution
- Oracle to AWS migration of 15+ year old highly complex Java SOAP-based web services and batch programs developed on WebLogic (app server and MQ)
- SOAP-based web services were converted to REST web services, re-platformed to Spring Boot, and deployed in AWS ECS Fargate container
- All the DDLs Object like stored procedures, packages, functions, etc. & data were migrated to Aurora PostgreSQL automatically within 4 weeks

Client Benefits

- Reduced TCO by 50%
- 60% faster development, deployment and migration
- Near zero downtime migration



US-based Air Travel Distribution and Intelligence Major Modernizes Legacy Data Improved Customer Experience.

Business Problem

As part of their modernization journey, they were looking to decommission the on-premises Teradata infrastructure and migrate appliance data and workloads to a future state architecture on AWS S3 and Snowflake

Solution

- Hexaware performed an automated assessment of the on-premises Teradata landscape using Amaze® for Data & AI
- Migrated Teradata tables to AWS S3, optimizing queries for the data lake environment
- Redirected analytics reporting to AWS Data Lake, enhancing system modernization
- Implemented AWS Lambda for scheduled, timely execution of analytics report generation
- Utilized Amazon EventBridge and AWS Step Functions for automated report triggers
- Validated Tableau dashboards and data integrity post-migration for quality assurance

Client Benefits

- Access reports faster leading to faster time to market
- Unified platform enabled querying and analyses of data directly from the data lake layer without the need for complex ETL processes
- 40% faster data processing for report generation



50%

reduction in time and
effort to review and
analyze case files

AI-Powered Legal Review with Amazon Comprehend

Business Problem

Manual analysis of extensive medical case files was slow and prone to error

Solution

- Implemented AWS Textract for automated text search in extensive medical documents.
- Utilized AWS Comprehend for intelligent key information and root cause extraction
- Integrated Python Libraries with AWS for efficient data parsing and management
- Leveraged AWS OpenSearch for enhanced data indexing and retrieval capabilities
- Automated workflow with AWS Lambda for seamless data processing
- Stored and managed large document datasets using AWS S3 effectively

Client Benefits

- Search and extraction of information was 100% automated
- >50% reduction in time and effort to review and analyze case files
- Automation minimized the risk of error, ensuring reliable results

Run

By leveraging real-time data, AI-Ops, cloud governance, resilience, and protection, we enable businesses to optimise the potential of a multi-cloud environment and achieve ongoing **cost optimisation, efficiency savings, and cloud-based hyper transformation.**



US Based Health Insurance provider: Private Cloud Build Automation and Next Gen Cyber Security

Client Benefits

- Private cloud build-out with IT as a Service
- 47% TCO savings
- Outcome based partnership with revenue share in savings achieved
- Automated 5,000+ VM build via web-based marketplace with zero-touch
- 98% reduction in Cycle Time for a VM (from 30 days to 2 hours)
- Decommissioning automation implemented through a UI-based marketplace

Security Automation

- App-based automated patch management as a self service
- Automation of app deployment to the Load Balancer 120
- Automation of firewall rule provisioning

Data-center
Build-out in

120
Days



Financial Services arm of a US-based Automobile Major: Smart Automation Platform in Test Factories

Client Benefits

- 50% In-Sprint automation achieved and increasing 5% for every sprint
- 76% reduction in execution time across multiple channels and browsers
- 90% increase in automation coverage
- 45% reduction in script maintenance efforts
- 70% Regression automation coverage achieved across factories
- 40% reduction overall QA cycle time due to the increased automation coverage & regression automation

50%

In-Sprint automation
achieved



Leading Japanese Imaging and Electronics Manufacturer: Supporting Large Oracle ERP Implementation & Transforming User Experience Using Conversational AI

Client Benefits

- Integrated Support model – Infrastructure, applications & service desk
- 30% TCO reduction by leveraging automation solutions using Tensai
- Automation solutions created that enabled 20% increase in FCR and 14% reduction in incoming volumes
- 47% TCO reductions by leveraging conversational AI. Plan to use social analytics to detect user dissatisfaction and initiate proactive resolutions
- Large Oracle E-business implementation spanning over 10,000 users saved 30% opex due to consolidation, modern delivery methods & automation

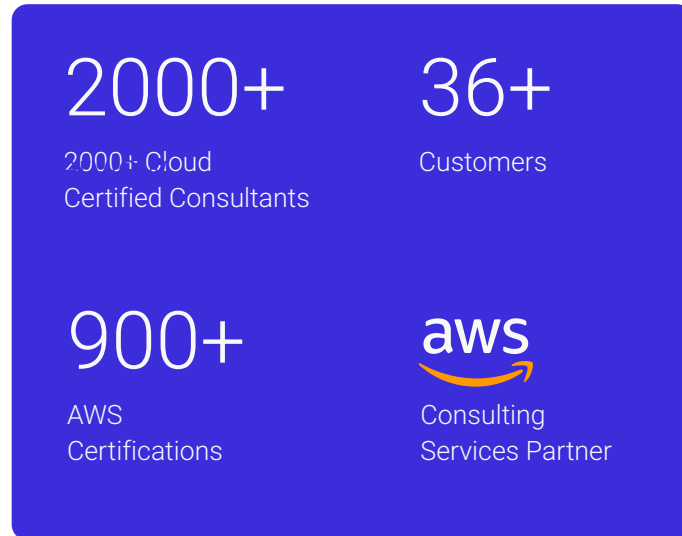
30%

TCO reduction
by leveraging
automation solutions
using Tensai

Hexaware & AWS Partnership

Hexaware's Partnership with AWS

Overview



Service Offering

- Data Estate Assessment, Roadmap & Strategy
- Data Engineering
- Data Warehouse Migration and Modernization
- Data Management – Data Governance & Observability
- Business Intelligence, Analytics & Data Monetization
- Advanced Analytics (AI/ML) & MLOps
- Generative AI
- Cloud Consumption Monitoring & Optimization
- Infrastructure Lift and Shift Cloud Migration
- Application and Modernization
- Microsoft Windows Workload Migration
- Oracle Workload Migration
- Industry Offerings – Financial Services, Healthcare, Open Banking & Retail

Partnership Highlights

We work closely with AWS business development, solution architect, and product/technical teams:

- Gen AI App on AWS Marketplace – Review Analytics & Ad Generation
- Vertical Specific Solutions
 - Amaze for Capital Markets
 - PAYMATIX – Data Visualization Platform for Banking
- GTM Pilot on Amazon Kendra – Contact Center Intelligence
- Evangelization on Amazon Code Whisperer & Bedrock
- Eligible for two programs – AWS Solution Provider Program and APN Immersion Days

Competencies



- IoT Services Competency
- Retail Services Competency
- DevOps Services Competency

- Migration Services Competency
- Digital Customer Experience Services Competency



- AWS Glue Delivery
- AWS Lambda Delivery
- Amazon Redshift Delivery
- Amazon API Gateway Delivery

- Amazon EC2 for Windows Server Delivery
- AWS Database Migration Service Delivery

Hexaware Accelerates the AWS Migration Acceleration Program (MAP)

Hexaware is fully compliant with AWS MAP. Hexaware's services complement the AWS MAP at each level.

- Hexaware CAF imbibes all the necessary best practices and guidelines that MAP provides
- We accelerate cloud migrations leveraging a platform approach – powered by Amaze®
- To enable repeatability, reusability & enhanced resiliency as we migrate workloads to cloud
- Hexaware CAF leverages various cloud adoption frameworks and methodologies across all hyperscalers and hybrid cloud

Assess

Migration Evaluator

Rapid Migration Business Case (RMBC)



Rapid
Discovery



TCO
Report

Accelerators



Briefings &
Workshops



Immersion
Day

HEXWARE / **amaze**[®]
for Assessment

Create a Case for Change

Mobilize



Discovery &
Planning



Business
Case



Migration
Plan



Landing
Zone



Security &
Compliance



Operating
Model



Migration
Experience



Skills/ Centre
of Excellence

HEXWARE / **amaze**[®]
for Assessment

Mobilization through Experiences

Migrate & Modernize

Migrate



Operate



Modernize



HEXWARE / **amaze**[®]
for Migration

HEXWARE / **amaze**[®]
for Modernization

Accelerate Migration at Scale

About us

Hexaware is a global technology and business process services company. Our 27,000 Hexawarians wake up every day with a singular purpose; to create smiles through great people and technology. With 40+ offices in 19 countries, we empower enterprises worldwide to realize digital transformation at scale and speed by partnering with them to build, transform, run, and optimize their technology and business processes.

Learn more about Hexaware at <https://www.hexaware.com>.

Get in touch