ORACLE

Build better with Oracle Cloud

Trends and technologies driving today's IT

IT modernization is the ongoing process of updating your infrastructure to handle changing customer expectations, business goals, and regulatory requirements. Updates may be incremental, or they may be transformative. The key is to keep moving forward so tech delivers a competitive advantage.
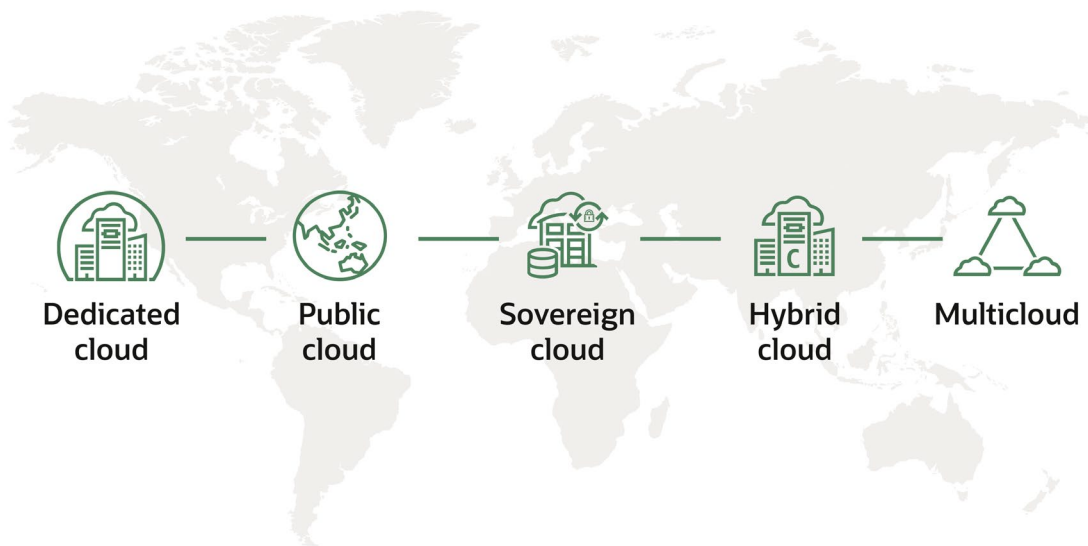
Accelerate IT modernization with Oracle Cloud

Achieving business objectives requires an IT environment that delivers unfettered access to data plus intelligent applications to process and analyze information, all built on an infrastructure that adapts to dynamic workloads.

No matter the size of your organization, Oracle's innovative technologies help you support connected business processes and deliver actionable insights.

The result: You drive change instead of reacting to it.

A distributed cloud that can be wherever you need it

Dedicated cloud   Public cloud   Sovereign cloud   Hybrid cloud   Multicloud

5 challenges to conquer

1 Technical debt increases IT costs

IT leaders know that technical debt always comes due because shortcuts and quick fixes result in isolated applications and data and unnecessary complexity. It's also expensive—a McKinsey article estimates that technical debt accounts for as much as 40% of IT balance sheets.

One solution is to find a cloud provider that delivers the performance, scalability, availability, and ease of migration you need, and start fresh.

2 Complexity stalls progress

Smart use of complete, current data helps attract new customers, increase revenues, and make operations more efficient. But legacy applications can make analysis difficult and updating old code is time-consuming and expensive—not to mention risky.

Instead, you can continuously modernize your IT environment by adding new artificial intelligence (AI) and analytics capabilities to existing applications while integrating diverse data sources. Doing so avoids the risk of massive rewrite projects and reduces time to value.

3 Fragmented data is difficult to monetize

Enterprises typically have hundreds of data sources, with new ones coming online regularly. But integration is often an afterthought, or neglected completely. Organizations can struggle with the complexity of their analytics environment, grappling with multiple single-purpose apps, hindering their ability to seamlessly integrate and analyze data from various sources.

When holistic data analysis becomes too difficult, it stops happening, and the business loses important insights.

Focusing on integrating data and preserving its lineage lets you do the analysis that can drive business success.

4 Tech sprawl and complex security increase risk

A typical organization experiences thousands of cyberattack attempts weekly. When an IT infrastructure is saddled with aging hardware, disjointed security services, and outdated applications, staying ahead of bad actors is increasingly difficult.

Shifting to cloud services that are easy and fast to deploy, consistently up to date, and equipped with cutting-edge cybersecurity can help neutralize threats.

5 Limited budgets lead to hard choices

Decisions, decisions. Where and how should you modernize? Do you pick a small project with modest returns or go big with greater ROI potential but also higher costs and risks?

Whatever your strategy, modernization projects large and small tend to take longer than expected because interdependent applications and data sources need to be updated together. That's why it makes sense to have a cloud partner that lets you migrate complex workflows in one motion, with the performance, scale, and availability your applications require so you don't waste time refactoring them.

The value of IT modernization

To stay competitive in today's digital landscape, businesses must continually update their IT infrastructures. Key benefits include:

• Streamlined processes that improve productivity and free employees to quickly and creatively adapt to changing market trends and meet the evolving needs of their customers.

• Supercharged innovation with emerging technologies including advanced cloud services, artificial intelligence, and data analytics that provide new and invaluable insights.

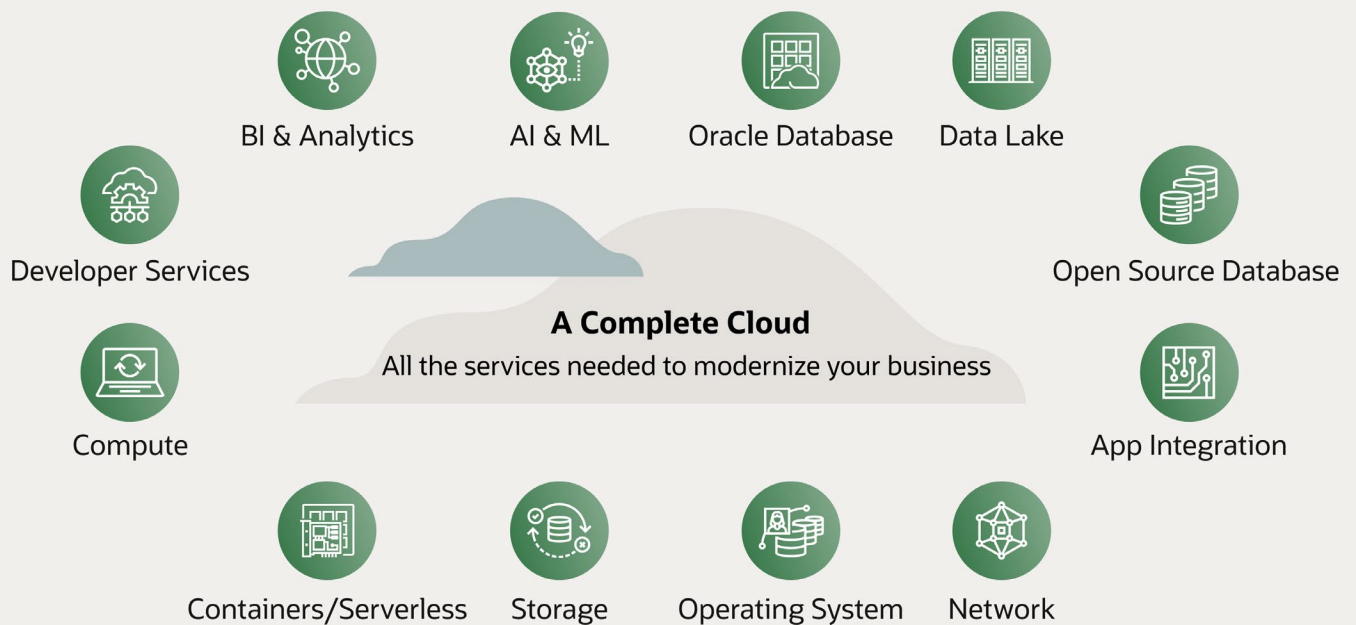• Reduced costs from automated workflows that let employees spend less time on manual tasks.

Innovate with cloud services

Effective CIOs take a services approach that aligns IT goals with business outcomes and employs technology to eliminate barriers between locations, data, and departments.

Oracle Cloud is a comprehensive platform that delivers more than 100 Oracle Cloud Infrastructure (OCI) services and SaaS applications. Flexible deployment options let you achieve cloud-based automation and economic benefits around the world, across multiple clouds, and inside your own data centers.

Regardless of where you use OCI, you'll get a consistent experience, a high level of performance, and the same low price in all cloud regions.

BI & Analytics   AI & ML   Oracle Database   Data Lake

Developer Services   Open Source Database

A Complete Cloud
All the services needed to modernize your business

Compute   App Integration

Containers/Serverless   Storage   Operating System   Network

Reduce technical debt, helping to increase profitability

OCI services let you modernize workloads and reduce technical debt by eliminating outdated solutions, inefficient siloed systems, and fragmented IT management.

Serverless capabilities such as Autonomous Database and Oracle Cloud Infrastructure Container Engine for Kubernetes let you consolidate operations and dynamically scale consumption up to meet demand peaks and down to reduce costs.

With Oracle Cloud@Customer solutions, you'll gain cloud benefits while running Oracle services in your data center, letting you meet regulatory, data residency, or low-latency requirements.

To speed modernization projects, Oracle and its partners offer extensive tools and services to simplify migrations.

Deutsche Bank   ◪

"Oracle fits into [our] strategy and complements our existing journey. There will be applications staying in the on-premises world, and we need to invest in simplifying them. It fully supports our cloud strategy, supports consuming technology as a service, and comes with significant financial and sustainability benefits."

Bernd Leukert
Chief Technology, Data and Innovation Officer, Deutsche Bank

Learn more

Deutsche Bank saves big with Exadata Cloud@Customer

• Lowers complexity with shared resources and automated services

• Reduces manual administration

• Helps meet EU data protection regulations with isolated platforms

• Enables lower network latency than public cloud and near real-time responses for banking applications

100+ M€
Expected cost savings over 5 years

50%
Expected energy savings using Oracle Exadata Cloud@Customer over conventional x86 servers

10,000+
Oracle Databases with 40+ PB of data being migrated to Oracle Exadata Cloud@Customer

Activate innovation, achieve faster time to value

Innovating to improve customer experience helps you gain market share and be more competitive, but it's important to limit risks to ongoing operations.

Developers can add intelligence to existing applications by using Oracle AI and machine learning (ML) services. They can create applications faster by using the Oracle APEX low-code development platform to build and deploy cloud native, mobile, and data-driven applications in Oracle Cloud.

Generating value from your innovations also requires that you minimize the cost of delivering them. You can achieve faster time to value by dynamically scaling OCI's serverless and managed container, database, middleware, and infrastructure services to match demand.

And you can increase the performance of open source applications using MySQL HeatWave with its in-memory query accelerator.

NRI

"Oracle APEX has become a critical driver of the value we provide to our customers. It allows us to both reduce costs and develop applications faster."

Shota Isshiki
bit.Labs System Architect, NRI

[Learn more](#)

NRI builds financial applications faster

• Enables rapid development of new applications based on customer needs

• Eases adoption by less-experienced developers

• Reduces the cost of creating new applications

65%

increase in application development efficiency

Faster customer service
Customer-specific user interfaces are updated in seconds instead of days

Integrate data, find new opportunities

Modernizing your data management processes helps you generate real-time insights, respond faster to changing demands, and grow revenues.

Oracle Modern Data Platform brings together a comprehensive suite of services that let you combine data from any application or data source. Oracle Integration, Analytics, and AI Services help you collect, combine, curate, and analyze transactional, analytical, and unstructured data assets.

Oracle's distributed cloud gives you flexibility with a range of deployment models. Our complete, intelligent, open, and extensible cloud can be implemented anywhere you need it—in OCI public cloud regions, in multicloud environments, and in your own data center.

With Oracle, you can make more accurate, actionable decisions when they matter most.

HEARST

"The simplicity of using Oracle Data Platform with Autonomous Data Warehouse and OCI integration has helped us reduce operational costs 80% and accelerate our project delivery times."

Kim Kohlman
Vice President of HCM Operations, Hearst

[Learn more](#)

Hearst speeds innovation with Modern Data Platform

- Created a single data source for analytics using a platform with multicloud integration

- Improved financial and HR decision-making with less administrative overhead

- Delivered SaaS extensions and connections faster with easy upgrades

- Increased cost savings through more attractive pricing and leveraging existing Oracle licenses

- Simplified processes to mitigate the risk and complexity of a legacy infrastructure

2X
Faster delivery of digital projects

80%
Reduction in operational costs

Unify systems, improve cybersecurity

Oracle offers a comprehensive suite of cybersecurity capabilities to help you monitor, protect, encrypt, and access your data. Oracle's cloud platform can help you transform your business, update your applications, and simplify the infrastructure needed to run your workloads - all with integrated security services. These combined offerings can help you more confidently build, run, and scale your business in the cloud.

Oracle imbues security and privacy throughout its distributed cloud by focusing on three key security tenets: simple and effortless, deeply integrated, and completely controlled.

With those tenets in mind, Oracle offers a portfolio of security, identity, and compliance solutions to help you lock down data and applications and address security challenges with more than 80 global, regional, and industry frameworks.

discngine

"Oracle Cloud Guard security allowed us to quickly obtain a key security certification by one of our biggest customers and frees up valuable time to focus on more customer innovations."

Alexandre Gillet-Markowska
Cloud Security Officer, Discngine

[Learn more](#)

Discngine advances research more securely with OCI

• Adopted Oracle Cloud Infrastructure (OCI) Vault to manage encryption keys

• Implemented Oracle Cloud Guard to maintain compliance

• Allowed the IT team to focus on more strategic activities due to the self-patching, autonomous Linux operating system

• Integrated Oracle Cloud Infrastructure (OCI) Identity and Access Management with Azure to implement a multicloud solution

• Increased security compliance by using the embedded, out-of-the box security services throughout OCI, available without additional cost

Quickly achieved certification
Achieved ISO 27001:2013 certification (international standard for information security management system) within 18 months

Faster deployment time
With OCI, shortened deployment time from 5-7 days to 1.5 hours.

Make the most of spend, without compromise

With OCI, you can quickly deliver results. Cloud services that closely match their on-premises counterparts make it easy to move mission-critical workloads to the cloud.

For example, Exadata Database Service offers the same capabilities as an on-premises database, and Oracle Cloud VMware Solution enables you to quickly move VMware-based workloads to the cloud without changes to best practices or tools. As a result, you can migrate without refactoring applications—and with near zero downtime.

Oracle's distributed cloud also lets you choose where to run workloads, with services available in OCI regions, Microsoft data centers with Oracle Database@Azure, and in your own data centers using Oracle Cloud@Customer solutions.

"Together with Oracle, we're modernizing thousands of on-premises database workloads and associated applications using a secure, fully featured on-premises cloud region—and lowering our costs."

Scott Petty
Chief Digital & Information Officer, Vodafone

[Learn more](#)

Vodafone fast-tracks telecom reinvention with Oracle

- Standardized and automated core IT services

- Transformed IT while meeting customer security needs with dedicated cloud regions for its data

- Brought new products to market faster while lowering IT and operations cost

- Modernized thousands of database workloads and associated applications

"Build once, deploy everywhere" approach

Shift 50% of IT staff's focus from maintenance to innovation.

How Oracle helps modernize your IT infrastructure

• Gain cloud benefits faster with services that match or exceed on-premises platforms

• Run Oracle Applications and databases with the highest performance and availability

• Innovate quickly with Autonomous Database, MySQL HeatWave, AI services, prebuilt integrations, and Oracle APEX

• Simplify management with flexible services and a single cloud control plane across OCI's distributed cloud

• Protect your enterprise with Oracle's security-first approach and a portfolio that is easy to deploy and deeply integrated across the distributed cloud

Next steps

Every organization's IT modernization needs are unique. Oracle works with you to chart a course to achieve your vision. Oracle's perspective and experience mean we can meet you where you are in your journey. Our flexible, powerful solutions can help whether you're considering a major, enterprise-wide upgrade or a series of small, targeted projects.

Oracle's built-for-the-enterprise solutions and cloud services help you achieve immediate results across your infrastructure. We'll help you navigate IT modernization challenges to maximize the value of your investment and deliver business results. Let's talk.

Learn more

Explore Oracle's distributed cloud
Request a demo
Learn why customers are choosing OCI
Explore solutions to your CIO challenges

Connect with us

Call +1.800.ORACLE1 or visit oracle.com

Outside North America, find your local office at oracle.com/contact