



Building a better working world

EY cloud and legacy modernization

Evolving customer and employee expectations require flexible technologies

With constant change, it is important to have flexible technology to quickly react and support stakeholder expectations. CIOs are turning to cloud based as-a-service models and adopting a "cloud first" mentality for applications and workloads. However, modernization of an organization's IT infrastructure does not necessitate a full move to the cloud. This balance of cloud first and existing technology requires a thoughtful and strategic approach to infrastructure modernization.

Key trends and challenges include:

- ▶ 53% of companies said cloud will likely account for the largest share of investment over the next two years.¹
- ▶ 84% of companies have a hybrid cloud strategy for flexibility in system capacity/sizing.²
- ▶ 66% of enterprises currently have a team specializing in cloud and another 21% of enterprises plan on having one soon.²
- ▶ 38% of companies say improving security and securing the enterprise is a top improvement opportunity priority.¹
- ▶ 59% of surveyed tech professionals believe there is an industry-wide shortage of the type of skills necessary for digital transformation efforts.¹

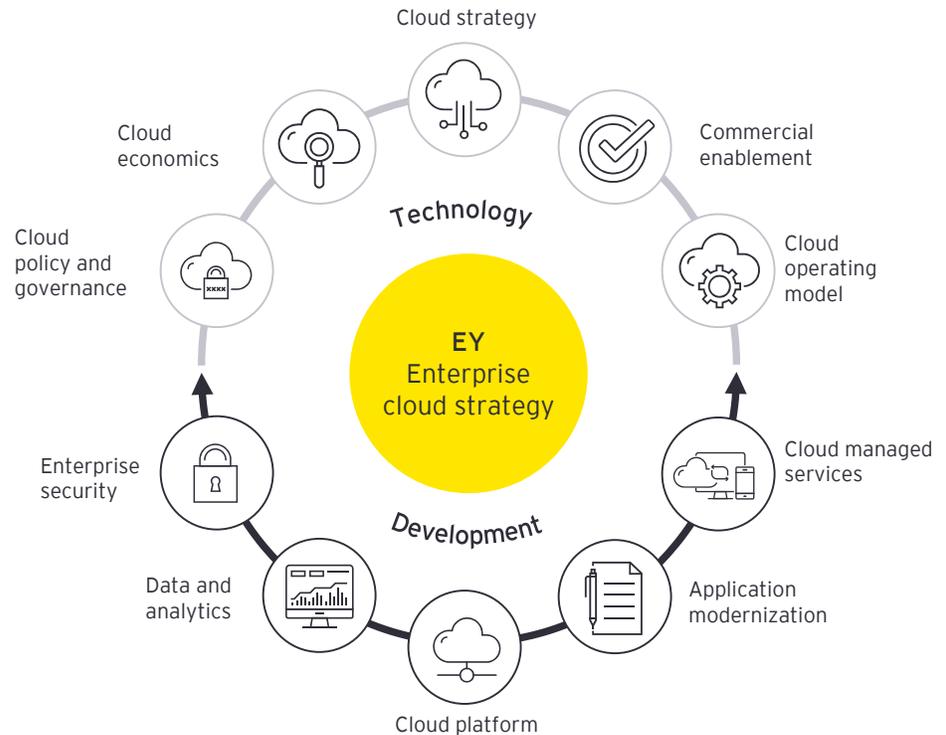
What if you could?

- ▶ Improve your enterprise's overall flexibility and reliability with a modern IT infrastructure that is cost effective?
- ▶ Accelerate speed-to-market by testing ideas quickly, adopting them and then moving quickly to scale?
- ▶ Build a sustainable next generation cloud-based, firm-wide digital capability to grow your business?
- ▶ Improve your security posture through simplification and standardization of your IT infrastructure and applications?
- ▶ Move your technology operations from legacy systems to flexible subscription models where business units pay for consumption?

Benefits

Enterprises that apply cloud and legacy modernization solutions typically see the following:

- ▶ 33% faster time-to-market with accelerated new program development
- ▶ Up to 30% efficiency in business and technology processes
- ▶ Up to 80% of data center CapEx converted to OpEx
- ▶ 50% to 75% increase in developer productivity using cloud, agile, DevSecOps and infrastructure as code (IAC)
- ▶ 20% reduction in carbon footprint



¹ Jim Little, Savi Thethi, "Tech Horizon: Six habits of digital transformation leaders," Ernst & Young LLP, 2 March 2020.
² RightScale "State of the Cloud Report from Flexera," Flexera, January 2019.

EY cloud and legacy modernization

We assist clients by providing services designed to meet each company's unique cloud and legacy modernization requirements.

Cloud economics and strategy

This service helps organizations with a "cloud-first" strategy, including the development of a financial model to calculate both current and future cost at workload and application levels to highlight potential savings. CIOs will also benefit from a cloud strategic roadmap with specific initiatives in conjunction with potential infrastructure operating model changes.

- ▶ Cloud strategy
- ▶ Business case for cloud
- ▶ Decision framework
- ▶ Financial and accounting models
- ▶ IT finance impact

Enterprise security

Moving to the cloud requires effective security measures and procedures to manage your migration effort, and then helps safeguard your applications and data in a hybrid cloud environment.

- ▶ Cyber as a service
- ▶ Active detection and response
- ▶ Identity and access management
- ▶ Cyber orchestration and automation

Cloud platform

EY teams help you re-think business processes and operating models through cloud-enabled platforms. We provide the following guidance on various platform options, migration approaches, data engineering and data security.

- ▶ IaaS, PaaS, SaaS
- ▶ Cloud migration factory
- ▶ Cloud 2.0: foundations, automation and security
- ▶ Cloud architecture/engineering support
- ▶ Cloud patterns/reference architectures/automation

Cloud operating model

EY teams will assess your existing IT or infrastructure operating model to understand how well positioned your organization is to support your future IT infrastructure in the cloud, including core business applications and tools.

- ▶ Cloud Center of Excellence (CoE) setup
- ▶ Organizational change management/roles/skills
- ▶ Cloud transformation program
- ▶ DevSecOps/NoOps for Day 2 operations

Application modernization

EY teams assist clients with updating their legacy applications to support modern architectures, including rewriting code to take advantage of cloud capabilities.

- ▶ Application modernization/innovation factory
- ▶ Container management/containerizing applications as part of the move to cloud
- ▶ CRM/ERP on cloud
- ▶ Robotic process automation and machine learning
- ▶ Internet of things

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EYG no. 007963-20Gb1
2010-3618616
ED None

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