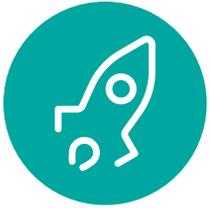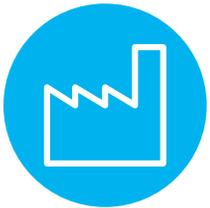IBM

Power IBM i workloads with the agility of cloud

Cloud is at the top of many IT agendas

By 2020, more compute power will have been sold by infrastructure as- a service (IaaS) and platform as a service (PaaS) cloud providers than sold and deployed into enterprise data centers.[1]

Worldwide spending on public cloud services and infrastructure is forecast to reach **$266 billion** in 2021, according to IDC.[2]

Gartner believes that **by 2020**, a general no-cloud policy will be extremely rare — about as rare as a "no-internet" policy is now.[3]

Is it time to **rethink** your on-premises IBM i strategy?

For more than five decades, the IBM i platform's **availability, performance, scalability and security-rich design** have made it an engine that powers much of world's data.

But as the demands of modern business evolve, a gap may develop between your current on-premises infrastructure and your transformational goals. The path you choose to bridge this gap can play a significant role in **determining your future success.**

Deploying your IBM i system in the cloud helps your business:

- **Respond** dynamically to changing market conditions
- **Drive** innovation and outpace disruptive competitors
- **Streamline** costs by converting infrastructure from a capital expenditure (CAPEX) to an operating expenditure (OPEX)
- **Achieve** enterprise-wide digital transformation

The importance of speed and agility

In a recent paper, Forrester Research Inc. states that as change comes at businesses from multiple sources such as government, regulators, traditional competitors, digital-native startups and customers, **only a fast, innovative technology function** will help companies adapt to today's increased volatility.[4]
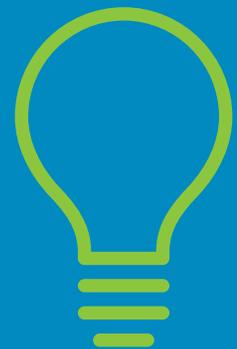
The **challenges** of on-premises deployment

To remain competitive, you need an infrastructure that can grow and adapt to the rapidly changing demands of the modern market.

But acquiring additional onsite infrastructure, means investing more CAPEX. Even after you have acquired the equipment, these environments can be **difficult to scale, costly to maintain and complex to manage.**

These challenges may lead to:

- Decreased speed in launching applications, products and services

- Higher total cost of ownership (TCO) for your data center — hindering your ability to invest in innovation

- Inability to meet the agility demands of existing and new workloads

Transform your company into an agile enterprise with cloud

Your organization relies on the extraordinary compute capacity and performance that IBM i provides for your critical workloads.

But to help outperform your competition, you need an **agile, efficient infrastructure that operates at the speed of business,** supporting innovative technologies and expanding with your growing data.

Imagine if you could deliver agility and innovation to your enterprise by extending the power of your existing IBM i workload. A cloud-based deployment can enhance your IBM i platform to help:

- **Enable** new products, services and innovation initiatives with cloud, analytics, mobile, social, cognitive, Internet of Things (IoT) and security technologies
- **Speed time to market** by provisioning infrastructure
- **Scale capacity** up or down on demand to help meet changing business requirements
- **Convert** CAPEX to OPEX
- **Reduce** your data center TCO by paying only for what you use
- **Enhance** the security-rich and high-availability features of your IBM i platform
- **Migrate** workloads to the cloud to better fit your business needs

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The growing demand for skills and availability

Concerns around high availability and IBM i skills both increased in 2017, growing by 20 percent and 7 percent year over year, respectively.[5]
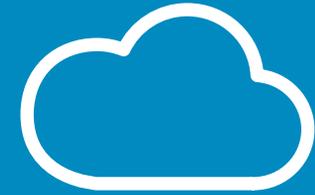
Accelerate your growth initiatives with an agile IBM i solution

Your ability to respond rapidly to change can mean the difference between winning or losing in the changing marketplace. Cloud offers virtually unprecedented opportunities for innovation and business agility.

IBM® Cloud Managed Services® for IBM i uses a cloud-delivery model to provide a multi-tenant, scalable infrastructure hosted in IBM purpose-built data centers across the globe. This security-rich solution provides a configurable, fully managed infrastructure, featuring some of the latest hardware and software.

Enable rapid changes in your IBM i environment with support from industry-leading IBM specialists providing services such as monitoring, system support and backup management to help drive virtually always-on service in applications.

Support current workloads and drive new growth initiatives with an on-demand IBM i as a service environment.

Help reduce CAPEX and OPEX with infrastructure savings of up to 30 percent [6] using a multi-tenant infrastructure hosted in IBM global data centers and managed by over 500 highly skilled IBM i specialists.

Boost business operations with a solution that includes built-in availability features at virtually all levels and is designed with security in mind.

Create an environment as flexible as your requirements

Configure the IBM i cloud environment to help **meet your specific requirements.** Featuring some of the the latest hardware and software, the solution allows you to scale your compute, storage and networking as needed.

IBM Cloud Managed Services for IBM i offers:

- **Flexible,** standardized software stacks
- **Scalable** central processing unit (CPU), disk and tape capacity
- **Your choice** of server, storage and tape availability options of up to 99.99 percent

IBM Cloud for IBM i is available in:

A hybrid infrastructure
Run workloads both on-premises and in the cloud.

or

Dedicated PaaS in the cloud
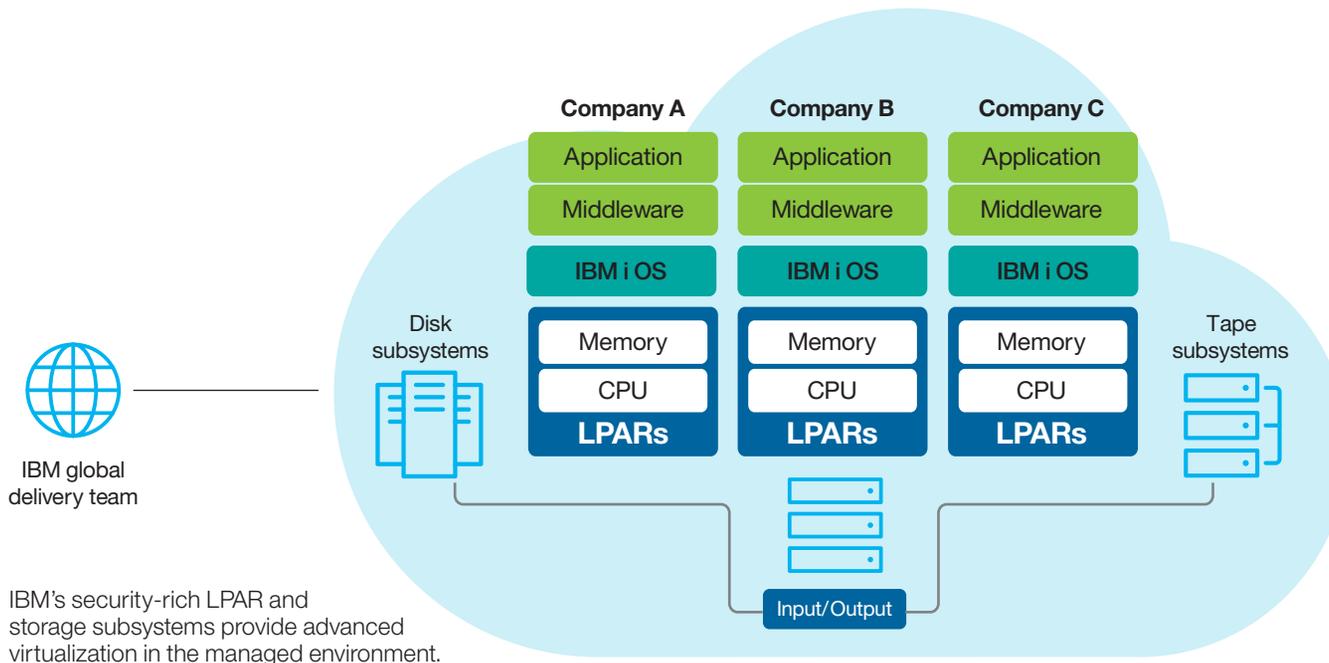Migrate all your workloads to IBM Cloud for IBM i.
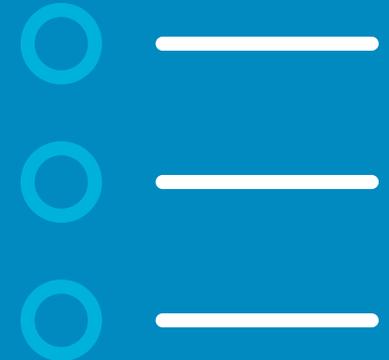
Enjoy the **benefits** of cloud without compromising security or availability

When using multi-tenant infrastructure, you want to create a security-rich environment — especially with your mission-critical workloads. IBM servers are housed in purpose-built global data centers. IBM Cloud for IBM i can offer optimized Logical Partition (LPAR) technology that's certified to help provide workload and data isolation.

Additional security-rich capabilities include:

- **Support** for leading security management solutions
- **Data encryption** for tape storage, attached storage and in-flight data across the network
- **Customized designs** to help manage specific compliance management requirements such as Payment Card Industry (PCI), Health Insurance Portability and Accountability Act (HIPAA) and Federal Financial Institutions Examination Council (FFIEC)
- **Configurable options** for high availability and disaster recovery with service level agreements (SLAs) up to 99.99 percent

IBM's security-rich LPAR and storage subsystems provide advanced virtualization in the managed environment.

IBM global delivery team

Disk subsystems

Tape subsystems

Company A | **Company B** | **Company C**

Application | Application | Application
Middleware | Middleware | Middleware
IBM i OS | IBM i OS | IBM i OS
Memory | Memory | Memory
CPU | CPU | CPU
LPARs | **LPARs** | **LPARs**

Input/Output

Reduce infrastructure costs
without sacrificing performance

IBM Cloud Managed Services for IBM i helps **reduce costs for your IBM i Systems computing infrastructure by up to 30 percent.**[7]

IBM uses larger IBM i servers to help **reduce software costs** per unit of compute while capitalizing on the cost efficiencies of software stack optimization. The solution is designed to drive significant savings in CAPEX and expenses such as floor space, power and cooling, allowing you to **invest in topline growth and better control costs.**

As the source of the operating system, IBM can also provide the skills needed to **optimize performance in your IBM i environment.** An experienced global staff can support rapid changes in the i environment, helping to enable practically continuous business readiness. Standard managed services like monitoring, system support and backup management help provide **virtually always-on service** to your IBM i applications.

Why IBM?

IBM has **more than 35 years of experience** in managing enterprise data center environments and delivering managed infrastructure services that provide real business value. In June 2017, IBM was named as a Leader in the **Gartner Magic Quadrant for Data Center Outsourcing and Infrastructure Utility Services, North America** for the fourth consecutive year.[8]

Industry analyst TBR noted the following key findings in its **Cloud Business Quarterly report:**[9]

Cloud Professional Services vendor adoption
IBM is the industry leader in customer adoption rates and ranks third in cloud professional services revenue.

Segment vendor adoption
IBM leads adoption across cloud professional services segments, including consulting, systems integration, application development and maintenance, and managed services.

IBM customer feedback
Clients using IBM cloud professional services emphasize IBM's knowledge of their specific industries as an important factor when choosing to work with the company.

Learn more ▶

IBM: Experience you can trust

Over **35 years** of managing enterprise data centers

Virtually **unparalleled knowledge** of the IBM i platform

More than 500 IBM i IT specialists manage approximately 80,000 incidents and 15,000 changes every year[10]

Take the next step

Are you ready for an IBM i transformation due to:

- Adopting a cloud-first strategy?
- Data center lease terminations?
- Upcoming hardware or software technology refreshes?
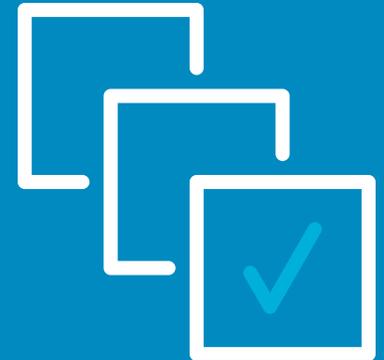- Downsizing or removing your IBM i workload?

Contact an IBM specialist to learn how you can avoid the cost and complexity of migrating IBM i applications.
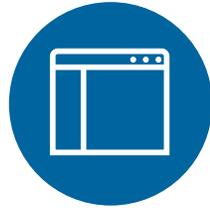
For more information, visit **IBM Cloud Managed Services on the IBM marketplace**
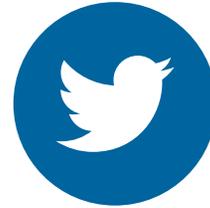
Spread the word about IBM Cloud for IBM i. **Share a link to this ebook on Twitter**

IBM.

[1] Gartner, "Market Insight: Cloud Computing's Drive to Digital Business Creates Opportunities for Providers," David Mitchell Smith et al, Refreshed: 24 July 2017, Published: 24 May 2016, G00307508.

[2] IDC, "Worldwide Public Cloud Services Spending Forecast to Reach $266 Billion in 2021, According to IDC", Published: 18 July 2017, https://www.idc.com/getdoc.jsp?containerId=prUS42889917

[3] Gartner, "Market Insight: Cloud Computing's Drive to Digital Business Creates Opportunities for Providers," David Mitchell Smith et al, Refreshed: 24 July 2017, Published: 24 May 2016, G00307508.

[4] Forrester, "Speed and Innovation Drive CIO Success," 24 April 2017, https://www.forrester.com/report/Speed+And+Innovation+Drive+CIO+Success/-/E-RES136125

[5] HelpSystems, "2017 IBM i Marketplace Survey Results," https://www.helpsystems.com/resources/guides/2017-ibm-i-marketplace-survey-results

[6] Based on client engagements. Actual results may vary by client.

[7] Ibid.

[8] Gartner, "Magic Quadrant for Data Center Outsourcing and Infrastructure Utility Services, North America," William Maurer et al, 22 June 2017, G00313892.

[9] TBR, "1H16 Cloud Professional Services Customer Research," 2 June 2016, http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?htmlfid=SSL12348USEN

[10] Based on IBM internal estimates.