Cloud predictions:

2022 and beyond

What must companies do to adapt to a changing world and accelerate business transformation?

Introduction

"Life is like a bicycle. To keep your balance, you must keep moving forward."

— Albert Einstein

We couldn't agree more. And to move forward, you need cloud to transform your organization's competitive future. That's why together, Kyndryl and VMware offer an integrated portfolio of solutions to help you reach your transformation goals. With them, you can confidently transition to the cloud, proactively manage your multi-cloud environment, leverage the power of the latest networking technologies, and compete in a distributed digital world.

To support your efforts, we took a look at the recently published research in *IDC FutureScape: Worldwide Cloud 2022 Predictions*.[1] We've highlighted a few key predictions in this document so you can better anticipate the changing business climate and adjust your transformation efforts to ensure optimization, efficiency and competitiveness across organizations. Read on to explore why digital transformation is so critical for your company's forward motion in 2022 and beyond.

1. *IDC FutureScape: Worldwide Cloud 2022 Predictions*, IDC Doc #US47241821, October 2021.

Key IDC predictions

IDC FutureScape: Worldwide Cloud 2022 Predictions dives into 10 forecasts about cloud in 2022 and beyond. In this document, we highlight five to help guide your transformation.

1
The modernization era
By 2024, the majority of legacy apps will receive some modernization investment, with cloud services used by 65% of the apps to extend functionality or replace inefficient code.

2
Dedicated clouds
By 2025, 60% of organizations will implement dedicated cloud services either on premises or in a service provider facility in response to performance, security and compliance requirements.

4
Multi-cloud logistics
By 2024, 75% of organizations will implement tools for multi-cloud data logistics to achieve distributed data consistency, using abstracted policies for data capture, migration, security and protection.

7
Cloud economics
By 2023, 80% of organizations using cloud services will establish a dedicated FinOps function to automate policy-driven observability and cloud resource optimization to maximize value.

8
Network and edge
By 2026, 70% of CIOs will require cloud and telco partners to deliver secure cloud to edge connectivity solutions that guarantee performance and consistency in data collection.

IDC prediction

No. 1

The modernization era

By 2024, the majority of legacy apps will receive some modernization investment, with cloud services used by 65% of the apps to extend functionality or replace inefficient code.
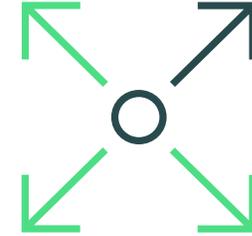
Kyndryl and VMware's recommended steps

Plan and begin your modernization journey.

Modernize existing apps and infrastructure.

Automate modernized apps and infrastructure at scale.

Plan and begin your modernization journey

Review customers' app and infrastructure estates with tried and tested assessments and tools. This will make it easy to identify and execute the best modernization strategy: migrate, modernize and build.

Example: A healthcare company needs help to modernize apps

Like many healthcare payers and providers disrupted by digital transformation, a global healthcare company looks to assess their app portfolio to prepare for cloud migration and modernization. Instead of trying to do so on their own, they can enlist the help of the Kyndryl and VMware alliance team.

The team can quickly perform an app portfolio assessment and leverage tools to discover, identify and act on the right modernization strategy. This company will then be able to document a clear strategy for migrating and modernizing a prioritized set of apps to the cloud in a cost-effective, secure way.

The result: This healthcare company can shift their focus to developing new products and services, building up skills, and managing costs while mitigating the risk of their app platform.

Modernize existing apps and infrastructure

Transition from a selected source environment (for example, prioritized apps and infrastructure) to the cloud. Leverage containers, a DevSecOps framework and solutions to improve agility and cost effectiveness.

Example: A large European bank wants to adopt container technology

A European bank can engage the Kyndryl and VMware alliance team to leverage container technology. This will allow them to package up their software code in ways that help it run uniformly and consistently across their entire IT infrastructure environment. They can couple Kyndryl solutions, such as cloud migration and modernization services and multi-cloud deployment services, with VMware's Tanzu suite of offerings.

The result: The Kyndryl and VMware team can quickly enable the bank to run their apps on the cloud using modernized VMware cloud-based app and container approaches.

Automate modernized apps and infrastructure at scale

Leverage cloud operating model best practices and modern tooling to deliver seamless management across modernized environments.

Example: A global manufacturing company wants to automate at scale

One of the largest manufacturing companies in the world understands that by automating their app and infrastructure environments, they can deliver a seamless experience to their business, employees, customers and partners. By pairing Kyndryl services such as multi-cloud deployment and resiliency services with VMware offerings like Tanzu Application Service and Tanzu Service Mesh, this company can cost-effectively automate their apps and infrastructure at scale.

The result: The company can provide enhanced visibility and management while maximizing their IT investment.

IDC prediction

No. 2
Dedicated clouds

By 2025, 60% of organizations will implement dedicated cloud services either on premises or in a service provider facility in response to performance, security and compliance requirements.

Kyndryl and VMware's recommended steps

Move existing workloads and build new workloads for private cloud.

Move existing workloads and build new workloads for private cloud

Move workloads with speed and confidence based on years of unrivaled expertise and proven reference architectures developed with VMware.

Example: A major airline can realize benefits of deploying cloud on-premises

This company, like many others, needs all the benefits and features of cloud to reach their on-premises data centers directly. They want their portfolio of public cloud services and apps extended into their own private environment to reduce costs, upgrade traditional apps using modern services, and meet the most demanding data residency and latency requirements.

Kyndryl can provide workload management across on-premises or private cloud environments using technologies like private cloud as-a-service, as well as development for private cloud infrastructure services. These services support VMware technologies such as VMware Cloud Foundation, amplifying the advantages an organization gains when using these joint solutions.

The result: This airline can focus on developing new apps that enhance customer experience and drive loyalty—all while reducing costs and ensuring security and resiliency.

IDC prediction

No. 4
Multi-cloud logistics

By 2024, 75% of organizations will implement tools for multi-cloud data logistics to achieve distributed data consistency, using abstracted policies for data capture, migration, security and protection.
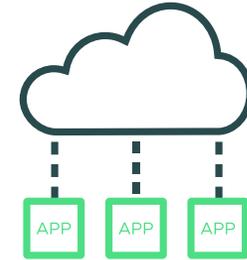
Kyndryl and VMware's recommended steps

Move existing workloads and build new workloads for public cloud.

Manage work across different clouds and platforms.

Prepare for cloud-native apps.

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Example: An American financial institution wants an app portfolio built for public cloud

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This company juggles business priorities, budget constraints, downtime worries and complexity—factors that can delay their cloud adoption. They might have difficulty determining which workloads provide the most business value, and they lack experience in prioritizing and executing workload migration. Kyndryl can provide advisory services for VMware technologies in addition to a full set of cloud migration and modernization services. This can give the company a workload-driven orientation and design that provides multivendor platform choices to best suit the company's needs and drive maximum business value.

The result: This company can have a technology and workload strategy aligned to their business values—optimizing costs and flexibility through the effective use of open standards.

Manage work across different clouds and platforms

Use cloud-based solutions to manage work across different clouds and platforms (for example, VMware Cloud on AWS, Azure or Google Cloud) with resilience for a high level of service availability.

Example: A leading health benefits company wants to build and run workloads across different clouds

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This company lacks the right operational model for managing their clouds and proper governance policies to ensure a cost-effective, secure and compliant cloud environment. Since they support multiple clouds, they might not have the ability to teach their teams new skills for each cloud platform. Kyndryl can provide multi-cloud management services and a multi-cloud management platform to help them work efficiently and effectively across their clouds and platforms, leveraging VMware technologies like VMware Cloud Foundation and vRealize Cloud Management.

The result: The health benefits company can achieve lower cloud costs and higher operating efficiency, ultimately maximizing cloud benefits.

Prepare for cloud-native apps

Prepare existing apps for transition and transformation to VMware cloud-based modern apps as needed.

Example: A regional distribution company prepares for app transformation

One of the largest regional distribution companies in Asia understands that by preparing for a cloud-native environment, they can get ready to transition their app estate to cloud-based apps. Kyndryl offers key services, like multi-cloud deployment services as well as migration and modernization services paired with VMware offerings such as Tanzu Mission Control, so that organizations can cost-effectively set the foundation for app transformation.

The result: This company can get the right app strategy and cloud foundation to leverage key services and solutions for maximizing cloud-native environment benefits.

IDC prediction

No. 7

Cloud economics

By 2023, 80% of organizations using cloud services will establish a dedicated FinOps function to automate policy-driven observability and cloud resource optimization to maximize value.

Kyndryl and VMware's recommended steps

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Manage work across different clouds and platforms.

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Example: A regional telco in the Americas needs to manage a multi-cloud environment

A telco company understands that data-driven business innovation needs agile, scalable and flexible data platforms that require real-time data and the ability to scale on demand. They also know that a lack of advanced automation and complexities in data, app and infrastructure management leads to costly, inefficient operations and IT environment management. Kyndryl can pair its multi-cloud management services, multi-cloud management platform and resiliency services with VMware technologies—such as CloudHealth Secure State and vRealize Cloud Management—to help the telco improve overall cloud management.

The result: The company can realize significant cost reduction in IT management and full compliance with regulatory requirements.
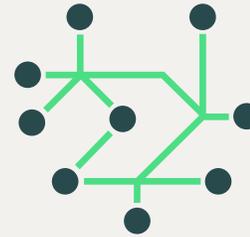
No. 8
Network and edge

By 2026, 70% of CIOs will require cloud and telco partners to deliver secure cloud to edge connectivity solutions that guarantee performance and consistency in data collection.

Kyndryl and VMware's recommended steps

Secure the distributed edge.

Drive networking innovations in the cloud.

Reach and serve a hybrid workforce with speed and reliability.

Secure the distributed edge

Secure the edge of the cloud to reduce cloud-related security issues.

Example: A major chemicals company understands the benefits of securing the edge

Managing security can get too laborious for a company. Their security processes can be complicated and error-prone. Connectivity between on-premises environments at the edge and clouds can also present similar security issues. Kyndryl can share plans for its edge network security services that could incorporate VMware technologies like VMware SD-WAN and Secure Access Service Edge (SASE).

The result: The company can meet data localization, security and privacy requirements.

Drive networking innovations in the cloud

Embrace the latest in networking innovations across 5G, edge computing and software-defined networking (SDN).

Example: A large global petroleum company learns about innovations in networking

A large petroleum company faces many challenges, such as high-bandwidth costs from sending large volumes of data to the public cloud for processing, high latency between on-premises and public clouds, excessive manual configuration of network technology (for example, routers and switches) and network environment complexities. Kyndryl can share plans with the company for its SDN, SD-WAN and edge computing and connectivity services. These can be coupled with VMware technologies such as VMware NSX Cloud and other WAN and edge computing offerings.

The result: The company can feel confident that, with the help of Kyndryl and VMware, they can define and implement an enduring networking strategy, using managed services that include the latest innovative technologies.

Reach and serve a hybrid workforce with speed and reliability

Extend services to reach customers and workforces anywhere on any cloud, app and device.

Example: A regional processing company wants to leverage distributed edge to reach their hybrid workforce

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This company's goals include cost reduction, a full-stack edge infrastructure integration approach, turnkey solutions and apps ready for edge computing, and reduced reliance on connectivity to the cloud. Kyndryl can share plans for its enterprise 5G services and SDN and SD-WAN services, working with VMware technologies like Anywhere Workspace and SD-WAN to help the company establish a strategy for their goals.

The result: This company can have a solid strategy for leveraging edge computing as well as SDN, SD-WAN and SASE technologies to serve their business function, their employees and customers—anywhere, on any device.

Discover all the cloud predictions for 2022 and beyond

Want to dive into all of IDC's predictions?

Check out the full report.

Download IDC report

Source: IDC.

Learn more about Kyndryl and VMware

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"**Education is not the learning of facts, but the training of the mind to think.**"

— Albert Einstein

After all this time, Einstein's words still resonate. Your company needs the right training—the right solutions—to keep moving forward. Together, Kyndryl and VMware offer you the best solutions for **multi-cloud management, app and infrastructure modernization, digital workplaces, and network and edge.**

Learn more about how these joint solutions can help.

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Contact us for more information

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