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Architecting a Next-Gen Hybrid Cloud to Support Digital Resilience in 2021 and Beyond

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Why Digital Resilience Matters

them to prepare.

What is digital resilience?

The ability for an organization to rapidly adapt to business disruptions by leveraging digital capabilities to not only **restore** business operations, but also **capitalize** on the changed conditions.

Digital resilience has six dimensions that organizations need to master to deal with a volatile future. There are three steps in the digital resilience process:

A key learning from the pandemic is that organizations need to be prepared for unforeseen disruptive global events. Digital resilience helps





Building a Digitally Resilient Enterprise Using Digital Technologies and Platforms



By 2022, 70% of all organizations will have accelerated use of digital technologies, transforming existing business processes to drive customer engagement, employee productivity, and business resilience.





TIME

Key Investment Areas to Drive Innovation, Adaptability, and Resilience

Digital resilience is about balancing investments in infrastructure with investments in business innovation. Investments in IT and hybrid cloud are investments in digital innovation.

Digital core investment, 2019–2024 CAGR





A third of EMEA organizations expect **IT spend to be** higher in 2021.

Technology objectives are also changing to focus on business value, growth, and innovation:



Digital investment areas will **outpace the 5% CAGR for overall IT spend** to 2024.





Significant Role of Cloud-Centric Infrastructure to Support Digital Resilience

resilience

Cloud architectures play a key role in succeeding in every digital resilience dimension:



76% of hybrid cloud users see IT as a "driver of competitive advantage" or "enabler of business efficiency," compared with 67% of non-hybrid cloud users.



Infrastructure resilience delivered through a hybrid cloud strategy and developer services such as containers and open APIs are seen as critical for digital

Steady investment growth is expected across hybrid cloud and container platforms to meet innovation and resilience expectations.

2021 Cloud Investment Expectations

PaaS data services (data protection, database management for containers)

36% 29% laaS (public cloud infrastructure) 36% 29% Cross-cloud management (intelligent cloud ops) 32% 34% Hosted private cloud 32% 33% PaaS developer services (containers) 30% 36% SaaS (applications delivered as a service such as Workday, M365, Salesforce) 29% 32% 60% 40% 50% 10% 20% 30% 0%

* Excludes not stated / don't know

A third of organizations in Europe expect an increase in 2021 spending on all types of cloud infrastructure despite tight budgets.



70%

Increase No impact

Investment in Digital Infrastructure Resilience Rises in Priorities





Digital infrastructure resilience continues to be a core enabler of modern digital business. 71% of organizations see it as a top or high investment priority. Key areas where enterprises will invest:



Hybrid/multicloud solutions for frictionless connectivity and visibility (76% already have hybrid cloud environments and are working on integrations)



Formal governance processes for risk mitigation and data protection (58% are already following this to varying degrees)

Containers, software-defined onprem infrastructure, and cloudnative platforms (**57% already use** them)

Professional services to overcome complexities (54% of organizations engage a cloud services company during the migration and integration phase)



Observability (16% of organizations have identified observability tools as an area of key investment to optimize cloud operations)



Unified cloud management plane for greater consistency of operations

Cloud infrastructure is cited as the most critical technology for remote business operations in the post-pandemic world.



Digital Infrastructure Resilience: Expectations and Inhibitors

Digital infrastructure is expected to enable business outcomes around innovation, risk reduction, and efficiency. It is expected to leverage automation and data-driven strategies for successful business transformation.

EXPECTATIONS



The ability to deliver various types of cloud environments consistently, cost efficiency, and rich cloud ecosystem are the top 3 attributes organizations are looking for in their modern hybrid cloud partner.



Inhibitors need to be addressed with modern integrated architectures to achieve business outcomes and meet expectations.

Inhibitors to Achieving Expectations

Staff levels and skills are difficult to expand and update	36%
Many mission-critical workloads have latency, performance, and/or security constraints that require continued use of legacy systems	35%
Lack of consistent automation and analytics to optimize our environment	34%
Multiple datacenter and cloud management silos rely on different tools that are difficult to integrate	33%
Governance related to access, chargeback, SLAs, and vendor 31 selection is fragmented	%
The cost of public cloud services is too high 28%	



Digital Leaders Are "Cloudifying" On-Premises Infrastructure and **Relying on Modern Infrastructure Capabilities More Than Digital** Followers

Digital Leaders rely on advanced IT approaches to deliver agility and flexibility because they recognize that:

- Automation and orchestration are key to effective IT service delivery — building on top of cloud-ready infrastructure and applications.
- Intelligent management and observability can help adapt to changing workloads and identify potential bottlenecks and threats in advance for effective remediation.
- Cloud-native architectures and container management holistically can eliminate complexities and cost wastage.
- Security, governance, and cloud economics are first considerations.



Containers Are a Key Enabler for a Successful Hybrid Multicloud Architecture

Containers enable the next wave of digital infrastructure — and adoption is on the rise. Containers will be the new backbone for cloud-native applications and modernized applications alike. Getting containers right is critical for success. Containers help modernize on-premises cloud and enable cross-cloud mobility and operations.

CLOUD-NATIVE APPS



kubernetes

By 2024, net-new production-grade cloud-native apps will increase to 70% from 10% of all apps in 2020, due to adoption of technologies such as microservices, containers, dynamic orchestration, and DevOps.

IDC FutureScape

Two-thirds of midsize and large organizations in Europe indicate that by 2022 cloud-native initiatives will be integrated across various parts of their businesses. More than 7 out of 10 European organizations are already running more than 10% of their applications on containers



Access to Containers, Agile Infrastructure, and Cloud Experience **On-Premises Makes Hybrid Cloud a Reality**

Application and digital innovation components come to datacenters — time to drive standardization, integration, automation, and consistent management to find success in modern hybrid cloud



Cloud-like architectures now possible on premises



Modern on-prem and public cloud together deliver modern hybrid cloud necessary for continuous innovation and resilience



Cloud-like infrastructure, processes, and operations now possible on premises

Ultimate Hybrid Cloud Resilience Goal: Application Centricity and Optimized Operations



Hybrid cloud is a default reality for most European organizations ...

8 in 10

... but true success requires consistent and standardized operations



Top 5 areas identified for immediate investment to optimize cloud operations

23%





Organizations are building modern hybrid cloud architectures that can deploy any workload on the most suitable part of hybrid cloud with ease and fluidity





Being Digitally Resilient Is a Central Tenet of the Future Enterprise

To become a "future enterprise" and be ready for a volatile future, organizations need to balance customer satisfaction and innovation with operational and cost efficiency. Only a future enterprise will be ready to deal with sudden changes in the business environment and be digitally resilient.









Time to Shine: Savvy C-Suites Are Investing to Make Modern Hybrid Cloud the Bedrock for Digital Resilience and Optimized Operations

When planning a hybrid cloud strategy, savvy business and technology leaders have long-term, continuous value in mind. Here are the key hybrid cloud 2.0 success pillars for hybrid cloud. Are you ready?



	Long-term design strategy
0	By 2024, nearly 70% of organizations' new custom-developed applications will be built and managed using microservices and containers as foundations for stronger and higher- performing automation.
0	More than 40% of enterprises will replace outdated operational models with cloud-centric models that facilitate organizational collaboration for better business outcomes.
0	The belief that they are wasting at least 15% of their public cloud spending will drive enterprises to invest in cloud cost management to cut cloud waste in half.
0	All enterprises will struggle with app modernization and data integration across cloud silos; 20% will adopt connected cloud architectures to overcome these concerns.
0	To gain business agility, enterprises will commit to modernizing up to half of their existing applications, with cloud-native development and deployment services.
0	Leaders will focus on skills, digital KPIs, business outcomes, and standardized operations; hybrid cloud adoption will be defined by the company's applications, culture, terms, speed, and choice.



MESSAGE FROM FUJITSU

The Need for Change

For many years, we have been able to successfully differentiate ourselves through brilliant technological features and the high quality of our products. However, in a fast-changing industry like ours, technological features and quality are not sufficient anymore to meet all of our customers' needs. To remain attractive and benefit from dynamic changes in the market, repositioning is inevitable. Market conditions are constantly changing, which is why we need to stay relevant to our customers' challenges, today and in the future.

We strive to add value to our customers' business and to make a positive difference in the lives of our people, our customers, and our partners. By investing in more customer-centric themes to improve customer experience (CX), Fujitsu is looking to stay relevant and to be a trusted advisor for our customers, providing a unique CX.

Why hybrid cloud?

In line with Fujitsu's vision, the latest report from IDC clearly shows that hybrid cloud is the natural evolution as organizations optimize their infrastructures and 83% of European organizations leverage the benefits of running hybrid cloud. Being customer obsessed, we are simply responding to our customers' requests. Fujitsu is uniquely positioned to help customers find the right cloud for the right workload because we can offer a choice of solutions on which to build a hybrid cloud. These solutions build on Fujitsu's engineering heritage, where we have already pre-certified, pre-integrated, and pre-built solutions to take out the complexity, cost, and risk for our customers.

Craig Parker, Head of Hybrid Cloud Europe Product Business, Fujitsu





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