

# Leading Through Complexity: Hybrid Cloud Strategy for Scalable Innovation



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The opinions expressed in this presentation are those of the presenter, in their individual capacity, and not necessarily those of Discover.

#### Discover Global Network: About Us

#### Who we are

## DISC VER NETWORK





- Unique Network with Global Connectivity & Partnership
- Comprised of Acquirer (Merchant integrator) and Issuer(Card Issuing banks) connections via Discover Network
- Discover Network: millions of merchant and cash access locations
- **PULSE**®: one of the leading ATM/debit networks in the US
- Diners Club International® and
- 30+ Global Alliance Partners

#### **Our Numbers**



\$622 billion in spend<sup>1</sup>



**190+ countries** and territories accept our network<sup>1</sup>



**378M+ cards** run on our global network<sup>1</sup>



**1.8M** global ATMs offer cash access<sup>2</sup>

#### **Critical Platforms**



#### Payment Transaction Authorization

< 1 second response time

99.999% Availability



**Transaction Settlements** 



Digital Payments Tokenization

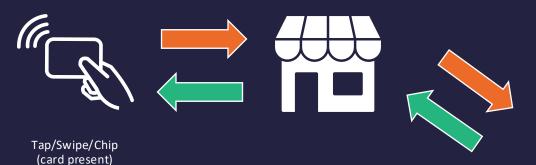


Fraud Monitoring and Detection

#### Continuous Innovation: From One Coin to Another



#### **Result of Innovation in Payment?**



Real-Time Payments No more coins













Online Payment (card not present)

**Card Member** 

Merchant

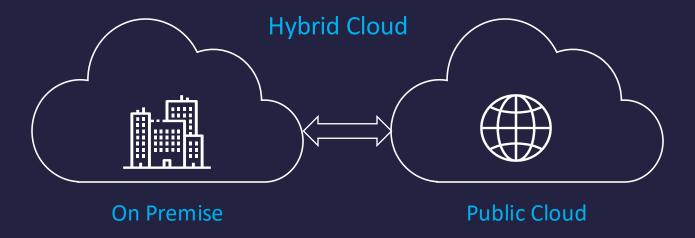
Acquirer

Payment Network

Card Issuing Bank

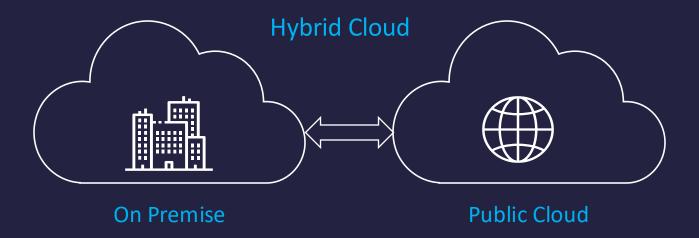


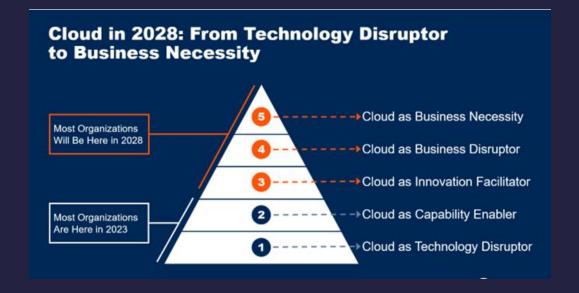
## **Hybrid Cloud and Innovation**





#### **Hybrid Cloud and Innovation**





## **Hybrid Cloud Benefits**



**Balanced Risk Management** 



**Cost Optimization** 



Global Reach



**Increased Innovation** 



**Scalability and Performance** 



**Compliance and Data Sovereignty** 

#### **Hybrid Cloud Environment: Key Challenges**



1. Increased
Network
Complexity



2. Complex
Service
Discovery



3. Customized
Cluster
Management



4. Continuous Security
Overhead



5. Added
Compliance
Requirements



6. Variable
Network
Latency



7. Application Integration Constraints



8. Increased DevOps Effort



9.Complex
Disaster
Recovery
Process



10.High
Availability
Risks



11. Increased

Monitoring &

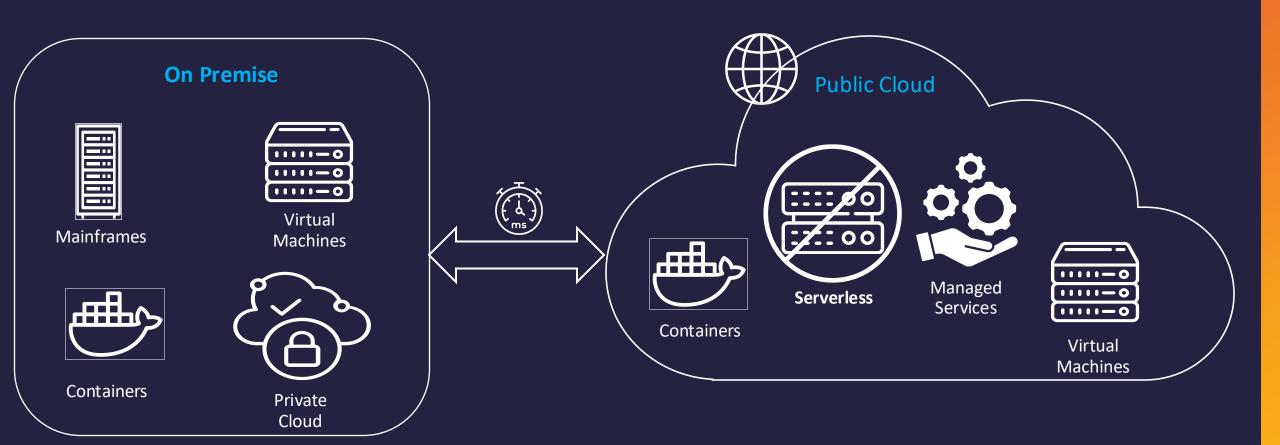
Tooling



12.Increased
Business
Cost



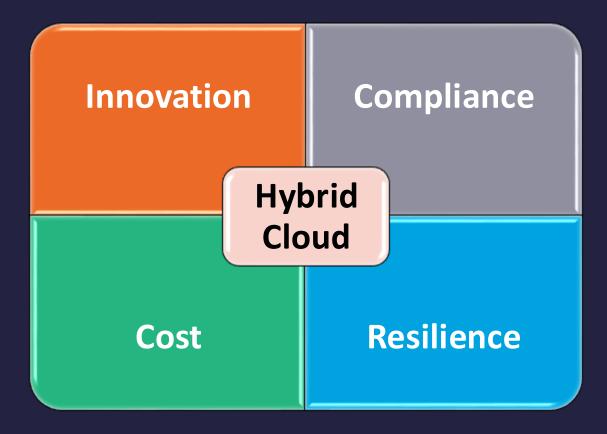
#### The New Reality: Complexity Everywhere



One Connected Ecosystem and Integrated Strategy for Unified Governance and Consistent DevSecOps



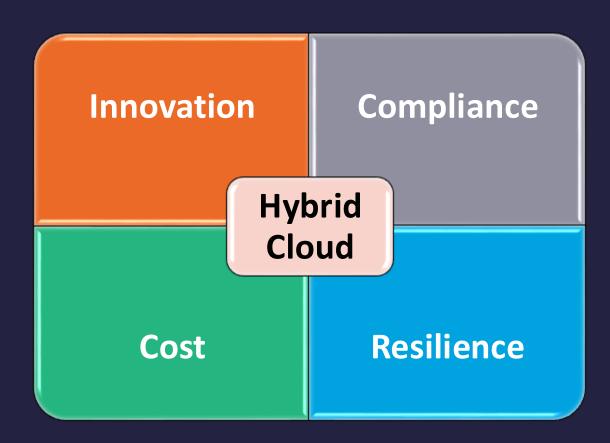
### **Leadership Challenge**





#### **Leadership Challenge**

Hybrid cloud is not just a technology choice - it's a leadership decision





#### **Hybrid Cloud Strategy: A Systematic Approach**



#### What our Leaders Say about Hybrid Cloud

## Discover Global Network Launches Cloud-Based Network Tokenization Platform

BY PYMNTS | OCTOBER 12, 2023

# DISC VER® Global Network

Discover Global Network, the payments brand of Discover, has launched its new cloud-based network tokenization platform.

This platform aims to offer companies a scalable and flexible token solution to enhance the security and efficiency of their payment processes, the company said in a Thursday (Oct. 12) press release. By integrating stored payment tokens as part of the payment experience, merchants and customers can get a seamless and secure transaction process.

The network tokenization platform, an extension of Discover Stored Payment Tokens, is designed to cater to the evolving payment ecosystem, according to the release. Discover partners can now deploy this solution at scale with their merchants.

Judith McGuire, senior vice president of global products at Discover Global Network, said in the release that the company is committed to building network tokenization services with its enhanced, cloud-based platform. McGuire emphasized that this aligns with the company's long-term strategy of offering a robust and scalable solution in the market, which will serve as the foundation for their future capabilities.

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IBM Works with Discover to Co-Create Technology Solutions and Migrate to a Hybrid Cloud Platform



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ARMONK, N.Y., March 30; 2022 (Fithiewswere) -- IBM Consulting (NYSE: 1990) is working with Discover-Financial Services (NYSE: DFC) to help the landing digital bank and payments company enhance its digital transformation of applications and existing systems to a hybrid could architecture using legital. OpenShift.

"Consumers demand faster access to integrated digital banking and payments more than over, with the assurance that their data will be previous," said John Granger, Senior Vice President, 18th Consulting, "Embracing an open enterprise hybrid cloud sharely with a secure platform purpose-built for the financial services industry allows Discover to deliver differentiated new expenences."

Discover plans to migrate and modernize its current systems and applications to an open and flexible hybrid cloud architecture. Red tracinger Selfs will help Discover leverage key capabilities such as security, automation and multiploud service integration to reduce operatorual costs, owiver better automos across business processes, enable faster application deployments, and bring agility with exhanced security and resilience

"As we accelerate our digital transition journey as a leading direct bank and payments company, it is catical that we have technology scalabora in place that help us improve the customer experience," said Amir Arooni, Executive Vice President and Chief Internation Offices at Discover. "Borking with IBM will allow us to automate, react and deliver solutions more quickly, ultimately driving down costs and helping our customers.

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DISC VER

Discover Financial Services Increases Transaction Processing Speed by 66% on AWS

Through to payment services, Oncome Francise Services Disposes Solutions relieve of daily researces while specify to three what and odest quote on separative because partnerships, when Discours payments train began register, away from singers manifely electrist support eventure, speed, and feedings in from Amoust and Servers Mally in support a scalable solution. By working to majore this and settlement enumerator to at architecture or ASA, Discourt delivined search and intravaid the developmagnetic value. increasing processing speed and inducing the time to adopt proxip charges



On AWS, we're able to adopt pricing changes within 3 weeks, whereas before it took at least 6 months.\*

Shows Dalton

Spean Principal Application Architect, Disease Financial Services

#### **Key Takeaways**

Hybrid Cloud is still relevant to many industries including payments and financial services.

Lead through the complexity, not around it.

Hybrid cloud is not just a technical architecture; it's a strategy to innovate at scale.

Empower teams with governance, the key to unlocking innovation without losing control.

If you can lead through the complexity of Hybrid Cloud, you create an engine for innovation and growth.



# **Questions?**





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processes and technologies creating
a brighter financial future for our
customers.



Scan the QR code or visit technology.discover.com

