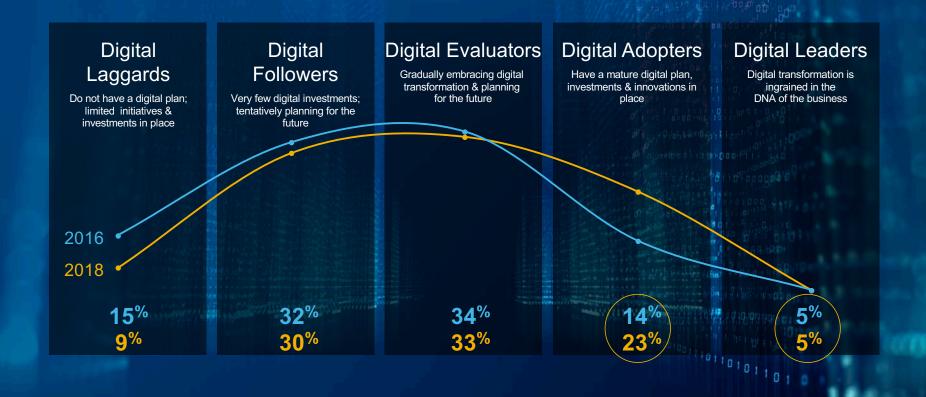


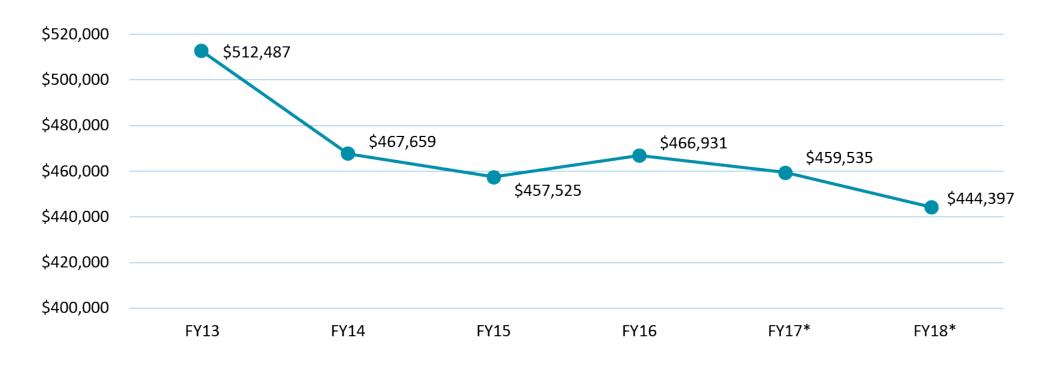
The pace of transformation will only increase.

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How ready is your organization?







MINNESOTA IT SERVICES



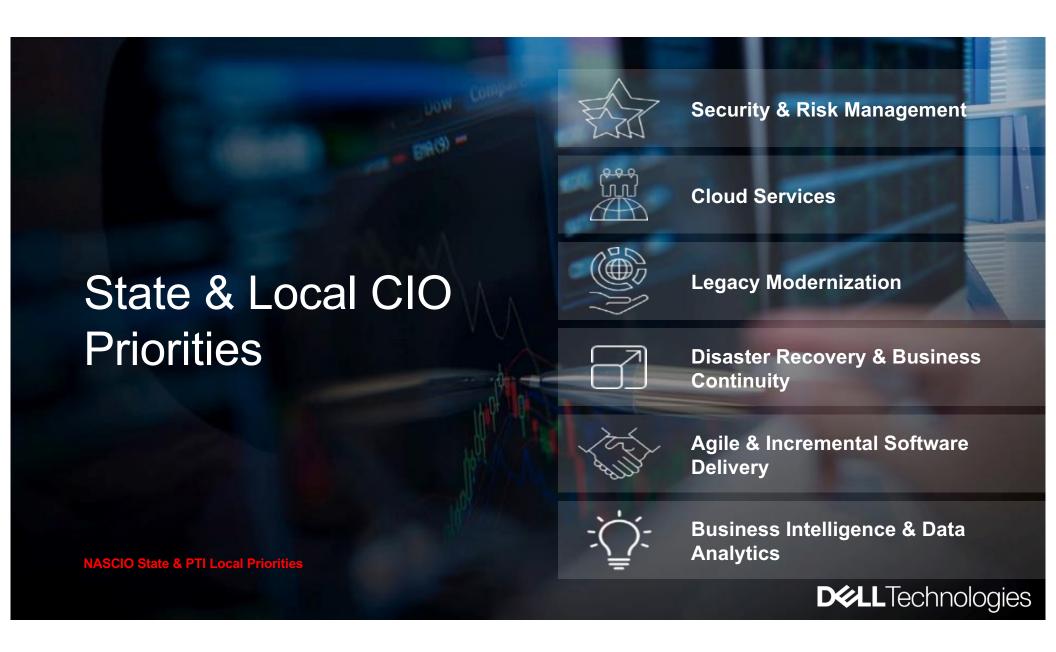






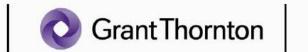














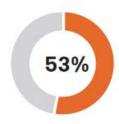
The Responsive State CIO: Connecting to the Customer

2019 State CIO Survey

What is your state's approach to cloud governance?



Agencies must obtain approval prior to using cloud services, but can contract externally as needed/desired



Usage of cloud applications and services is governed centrally for all agencies

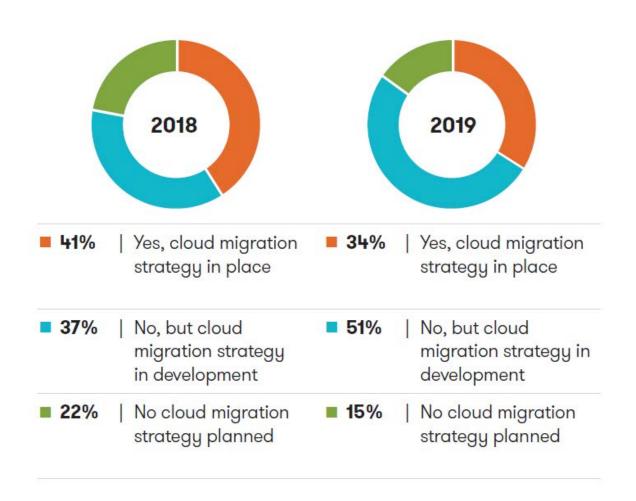


Cloud hosting services are provided by a centralized service organization



Agencies are free to contract for cloud applications and services as desired

Does your organization have a strategy to migrate legacy applications to the cloud?



What categories of services are your top priorities for migration to the cloud? (select up to five)

Item	Overall Rank
Email and collaboration	1
Disaster recovery	2
Office productivity software (e.g. word processing)	3
Enterprise Resource Planning (e.g., finance, budget, procurement)	4
Program/business applications (e.g. licensing, unemployment insurance, workers compensation etc.)	5
Citizen relationship management	6
HR/payroll/time and attendance	7
Storage	8
Identity Management	9

Security services/monitoring	10
Open data	11
Business intelligence	12
Digital archives	13
Geographic Information Systems	14
Project and Portfolio Management	15
Learning Management Systems	16
Other (please list):	17
Electronic records	18
Imaging	19

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2019 STATE GOVERNMENT OFFERING MAP

NASCIO Top 10: State CIO Priorities for 2019	FLEXIBLE CONSUMPTION	WORKSTATIONS & DESKTOPS & GATEWAY	M LAPTOPS & TABLETS	END POINT SECURITY	SYSTEMS MANAGEMENT TOOLS	DISK & FLASH STORAGE	SERVERS & HPC	NETWORKS & FABRICS	→ DATA PROTECTION	CONVERGED & HYPER CONVERGED INFRASTRUCTURE	CLOUD & CLOUD SERVICES	[]] VIRTUALIZE & AUTOMATE	DATA & CYBER SECURITY	PHYSICAL SECURITY	EMERGING TECHNOLOGIES	DATA ANALYTICS & INTEGRATION	AGILE APPLICATIONS & PaaS
1 Cloud Solutions	/			/	/	\checkmark	/	/	/	/	/	/	/	/	/	/	/
2 Security Enhancement Tools	\checkmark	\checkmark	\checkmark	\checkmark	/	\checkmark	\checkmark	\checkmark	\checkmark	/	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	/
3 Legacy Application Modernization	/	\checkmark	\checkmark	\checkmark	\checkmark				\checkmark	/	\checkmark	\checkmark	\checkmark		\checkmark	/	/
4 Business Intelligence & Analytics	/	\checkmark			\checkmark	\checkmark	/	\checkmark	/	/	\checkmark	\checkmark	\checkmark	/	\checkmark	\checkmark	/
5 Identity & Access Management	\	/	/	\checkmark					/		\checkmark	\checkmark	/	\checkmark	\checkmark		/
6 Collaboration Technologies	/	\checkmark	/					/	/	/			/		/	/	/
7 Data Management and Analytics	/	\checkmark			\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	/	/
8 Enterprise Resource Planning	/	/	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	/	/		\checkmark	\checkmark	/
9 Disaster Recovery	/	\checkmark	/	/	\checkmark	\checkmark	/	\checkmark	/	\checkmark	/	\checkmark	\checkmark	/	\checkmark		/
10 Networking	\	/	/		/			/				/	/		/		

*See also Education and Professional Services Resources on the reverse.

Source: As compiled by the National Association of State ClO's (NASCIO) — State ClO top 10 Priorities 2019 — www.nascio.org — Released November 2018



DELLEMO

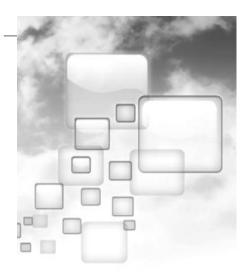
Pivotal.

RSA.

Secureworks'

virtustream.

vmware.





Technology is changing every industry

THE ECONOMY IS GOING DIGITAL

Global GDP

by 2022¹

COMPETITIVE ADVANTAGES



Data



Software

Success means delivering digital services, powered by data.

Running in a multi-cloud world.

Changing needs of workloads are driving cloud strategies

Cloud strategies must accommodate the needs of different workloads

Traditional Workloads

Cloud Native Workloads



Modernize

Optimize workloads using modern infrastructure



Utilize Hybrid Infrastructure

Infrastructure as a service across private and/or public cloud



Refactor

Modified workload leveraging cloud services



Develop for Cloud

New cloud native workload leveraging CaaS and PaaS



Replace

Move to SaaS version of packaged application

Cloud is not a destination, it's an operating model



Laws of physics



Laws of economics



Laws of the land

92%

Have cloud strategies inclusive of on premises data centers ¹

83%

Value consistency of infrastructure from data center to cloud ²

The Future isn't Public or Private. It's Both.

Your multi-cloud journey

Hybrid Cloud



Native Public Cloud



D&LLTechnologies



DØLLEMC

Pivotal.

RS∧

Secureworks

virtustream.

vmware^{*}

Hybrid cloud provides a simpler path







Consistent Infrastructure Consistent Operations

Cloud sprawl creates complexity

Management and Operational Silos

Complex Workload Migrations

New Skills & Processes

Uncertain Security Postures



Consistent hybrid cloud can address these issues

Consistent management and operations

Simplified Workload Migrations

Leverage existing skills and processes

Consistent Security Policies



Introducing the Dell Technologies Cloud



One cloud experience

Private Cloud



One cloud experience with consistency and choice

Dell Technologies Cloud













Cloud Partners





Dell Technologies
Partner Clouds

Workload mobility, single control plane

Ways to consume Dell Technologies Cloud





HCI

PLATFORMS

FLEXIBILITY



Best-of-breed storage, compute, and networking

VALIDATED DESIGNS

FULLY MANAGED



VMware Cloud on Deli

DATA CENTER-AS-A-SERVICE









PARTNER CLOUDS

Available Now: Dell Technologies Cloud Platforms

Jointly engineered to be the simplest and fastest hybrid cloud to deploy





Full stack integration

ONE

Available singlevendor support



Automated lifecycle management



Frictionless path to public cloud



Network flexibility

D¢LLTechnologies

Ways to consume Dell Technologies Cloud





HC

PLATFORMS

FLEXIBILITY



Best-of-breed storage, compute, and networking

VALIDATED DESIGNS

FULLY MANAGED



VMware Cloud on Deli

DATA CENTER-AS-A-SERVICE









PARTNER CLOUDS

Dell Technologies Cloud Validated Designs

Bring more workloads to the cloud with best-of-breed Dell EMC storage, compute, and networking



Bring cloud capabilities to demanding workloads



Superior performance with independent storage and compute scaling



Faster time-to-value with pre-tested infrastructure and deployment guidance



mwareCloud Foundation









Networking



Enterprise storage meets cloud operating model

Deliver cloud capabilities for workloads with demanding storage needs



Fibre Channel (FC) or Network File System (NFS)







Unity XT

Dell EMC first to validate external storage as primary storage for VCF*



Deployment Flexibility

Ideal for storage-intensive applications with demanding throughput and capacity needs



Investment Protection

Bring existing storage investments to your hybrid cloud environments



Deployment Automation

Simplify and automate storage management with VMware's deployment tools

Ways to consume Dell Technologies Cloud





HCI

PLATFORMS

FLEXIBILITY



Best-of-breed storage, compute, and networking

VALIDATED DESIGNS

FULLY MANAGED



VMware Cloud on Del EMC

DATA CENTER-AS-A-SERVICE









PARTNER CLOUDS

Dell Technologies Cloud Data Center-as-a-Service

Introducing VMware Cloud on Dell EMC



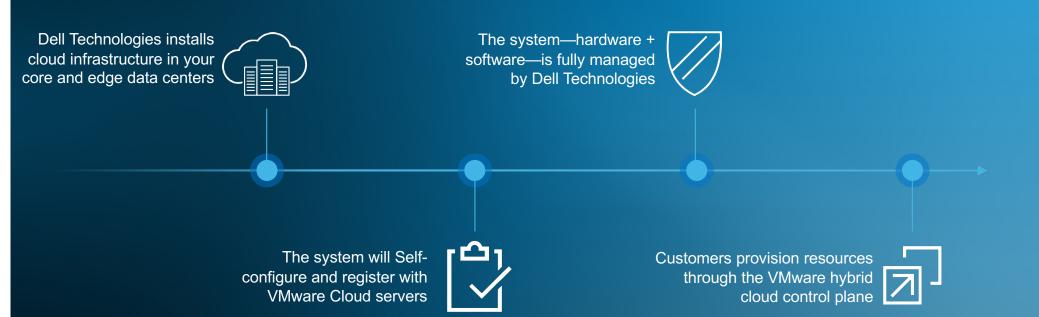
- Deliver cloud model to core Data Center and edge locations
- Fully managed by Dell Technologies and VMware
- Hybrid cloud control plane to provision and monitor resources
- Monthly subscription model

Dell Technologies Cloud Data Center-as-a-Service

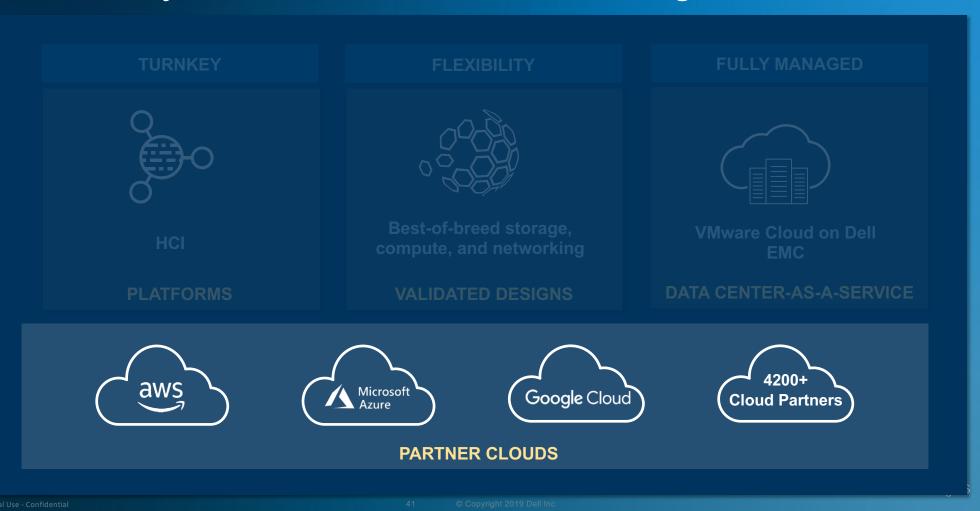
Bringing public cloud simplicity to your Data Centers



VMware Cloud on Dell EMC: How it works



Ways to consume Dell Technologies Cloud



Dell Technologies Cloud Partners

World's broadest cloud provider ecosystem







Google Cloud

4200+
CLOUD PARTNERS

New Flexible Consumption Options for Dell Technologies Cloud

Bring cloud economics on-premises



Elastic Capacity



Simplified Infrastructure Management



Predictable Cost Model

Why Dell Technologies Cloud?



Speed

Accelerate time-tomarket by an average of 15%¹



Cost

Up to **47%** lower TCO than native public cloud ²



Choice

Scale up to **40%** faster¹



Trusted Operations

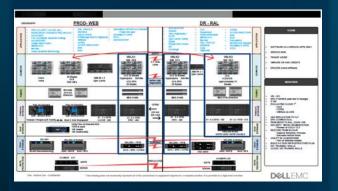
Reduce risk by an average of 13%¹

Dell Technologies can help with your cloud journey

DISCOVER



Your business priorities and existing environment



Tech Profile

ANALYZE



Existing infrastructure and application cloud suitability

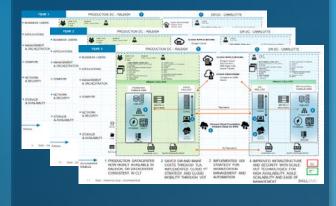


Tech Assessment

DESIGN



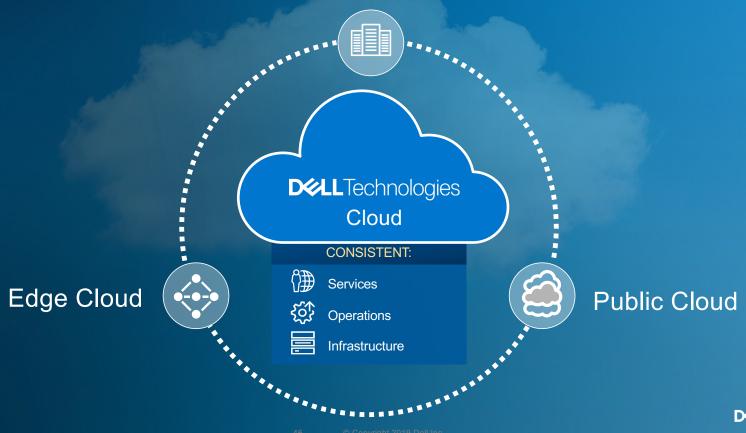
Build out cloud strategy and define infrastructure



IT Atlas

One cloud experience

Private Cloud



DLLTechnologies