

Nigel Lee Senior Director, Asia Pacific



The World Is Changing Fundamentally and Quickly

Those at the forefront of digital transformation use technology to radically improve the performance and reach of their enterprise

67% of Global 2000 CEOs will put digital transformation at the center of their growth and profitability strategies.

By 2020 it is expected that...

50% of the G2000 will see the majority of their business depend on their ability to create digitally-enhanced products, services and experiences

—Forbes, December 2015

—IDC Directions 02/17



Exercise: Please take out your mobile phones

Apps (Total? / Kids Edu/Games?)	Cloud Native	Enterprise	Examples (C, E)
Collab (Email, IM)	10	2	Exchange, iMessage, WhatsApp
Social Media	6	1	Facebook, Snapchat, Line
Photo	6	1	Flickr, PhotoBucket
Navigation (GPS)	4	1	Google Maps
Travel (Air, Hotel)	0	15	AirBnB, Agoda, Cathay Pacific
Car Services	4	6	Uber, GoGoVan
Hotel Aggregators	6	2	Hotels.com, Zuji
Shopping	3	10	Amazon, Taobao, Alibaba
Entertainment / Gaming	3	3	NHN, MyTV, Netflix, Pokemon Go
Payments	3	4	Samsung Pay, ApplePay, LinePay
Banking/Wire Xfer	0	6	HSBC, SCB, Citi Bank
Stock (Info, Trading)	1	3	AAStock, E*Trade
Insurance	0	2	AIA, FWD
Healthcare	2	4	FitBit, Nike+, Garmin
Home Security	1	1	Nest, Samsung, Phillips
SmartCities	0	3	HKO, MTR, Citybus
Mobile Acct Mgmt	1	1	iTunes, T-Mobile
TOTAL	50	65	

- Categorize
 - How many?
 - Our LIVES are digitized
- Cloud-native applications
- Enterprise applications
- Internet of Things

Customers are transforming digitally to create value

New commercial services



... OpenStack on NetApp laid the foundations for our gaming and new B2B and Fintech services

Foster new innovation



... building the FICO Analytic Cloud that enables their customers to create and deploy data analytics applications and services up to 70% faster

Modernizing existing platforms



... Al-based recommendation engine allows us to bring unique services to our customers



Becoming a data-centric organization is no small undertaking

It is especially difficult given today's IT realities

Budget

On-premises, traditional IT budgets will remain constrained between 2017–2020

-IDC

Skills

Nearly 6 out of 10 CIOs believe skills shortages will prevent their organization from keeping up with the pace of change—one-third more than just three years ago.

—Harvey Nash/KPMG CIO Survey 2015

Time

Market demand for app development will grow at least 5x faster than IT's capacity to deliver it through 2021—one out of every three new B2E mobile apps will fail within six months of launch by 2019.

-Gartner

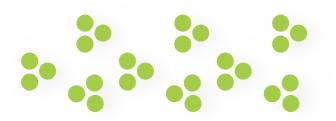


No longer is data locked away on devices hidden behind firewalls. Instead, it is becoming:





Stored in multiple locations — on-premises, and multiple cloud locations



Dynamic

An influx of constantly changing data that requires you to know where the data is and its source

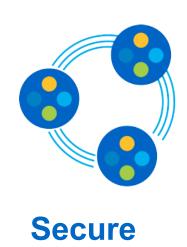


Diverse

Structured, unstructured, machine learning, and streaming — generated in and outside the organization



This requires a holistic approach to hybrid cloud data services that is:







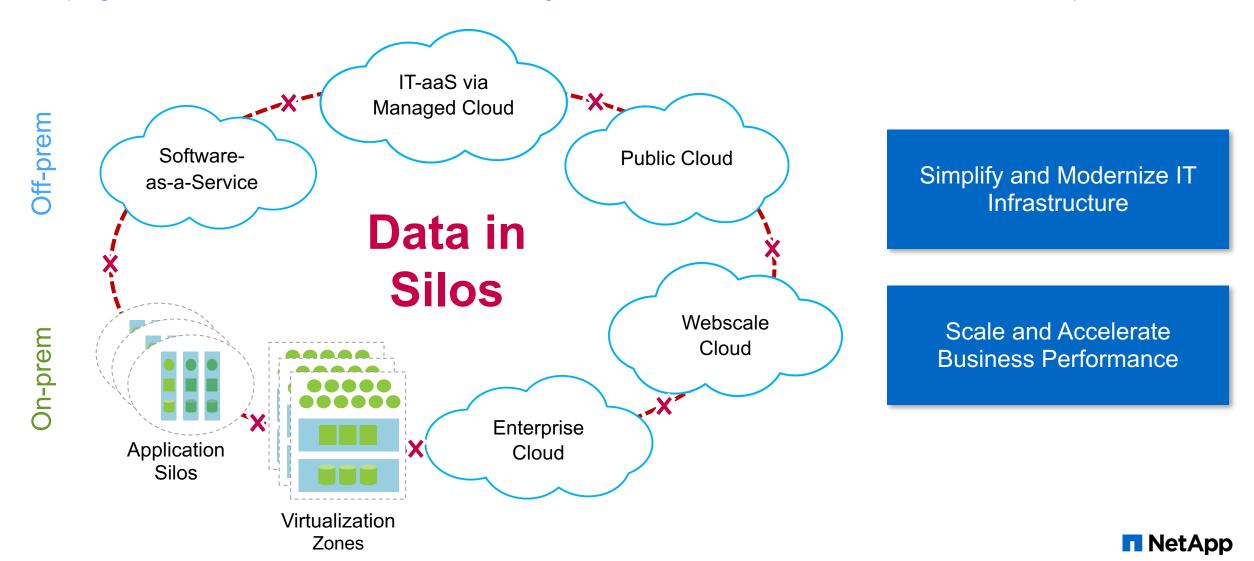


...and enabled by a Data Fabric

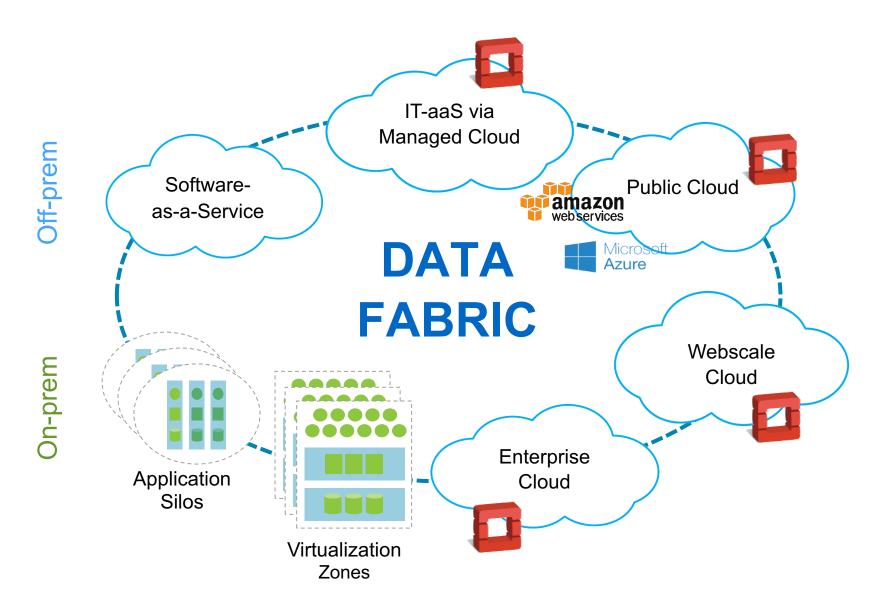


Data Fabric Enables IT's Digital Transformation

Helping customers unleash data to accelerate digital transformation and address their business imperatives



Data Fabric Enables IT's Digital Transformation



Leverage Data and Compute from Anywhere

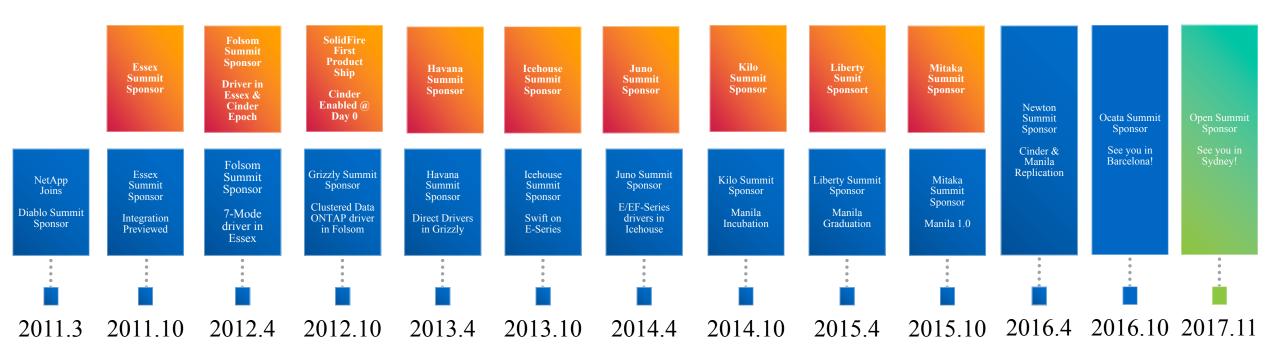


NetApp and OpenStack

A Long term commitment

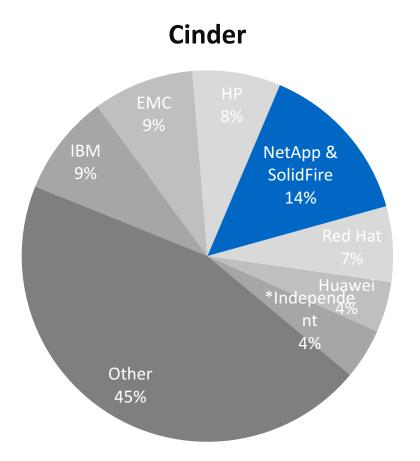
- OpenStack Foundation:
 - Charter Gold Member
 - Elected board representation

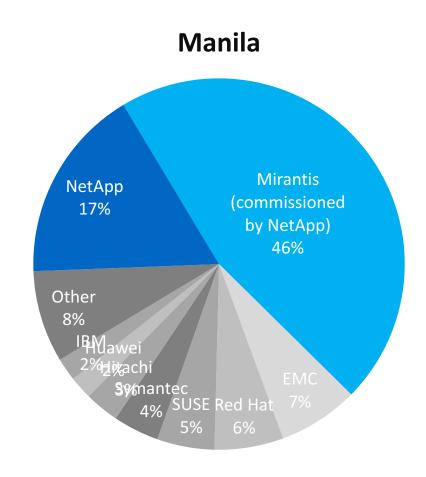
- 1st and leading storage provider
- Community project leadership
- Production deployments and deployer



NetApp and OpenStack: the leader in storage development

Cinder & Manila Lines of Code since inception

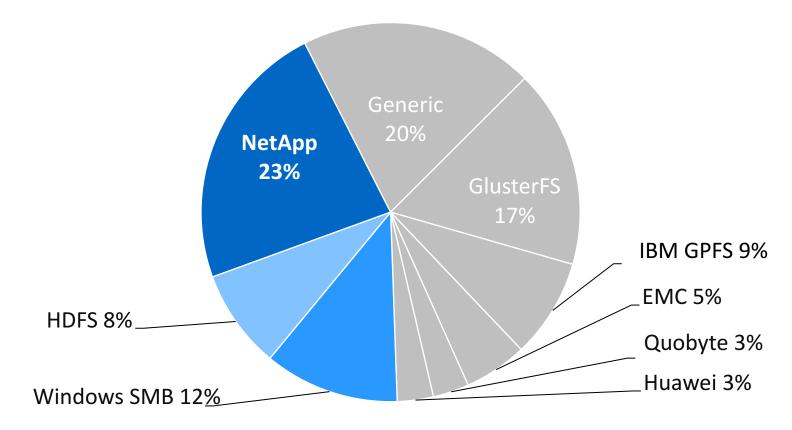




The combined NetApp & SolidFire leads 2 out of the 3 OpenStack storage projects

OpenStack Foundation User Survey Results

Shared File System Drivers in Use (April 2016)



NetApp is the founder of, leading contributor to, and most widely deployed option for Manila

NetApp OpenStack Portfolio Enablement







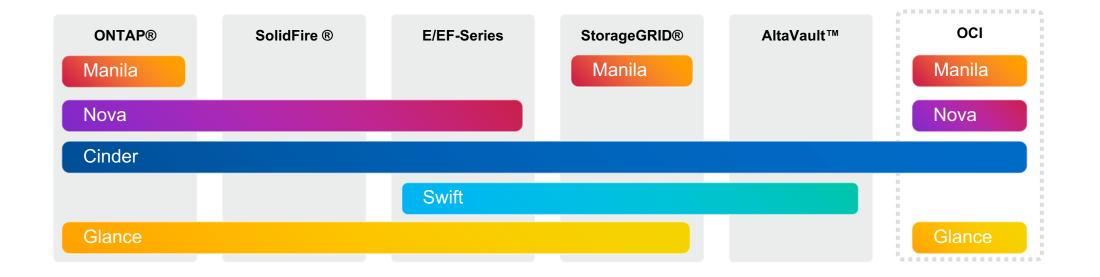






Database Service Analytics Service





SolidFire

All-flash storage platform for the next generation data center



- The 1st storage to support Cinder
- SolidFire Cinder driver included in OpenStack source - 4 lines of config file
- Features of the SolidFire Cinder driver: QoS, Cluster Pairing, Volume & Site Replication, Snapshots, Clones, Migration

Proven in the Most Demanding Service Provider & Enterprise Data Centers Globally















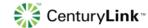
















How will you change the world with data?