

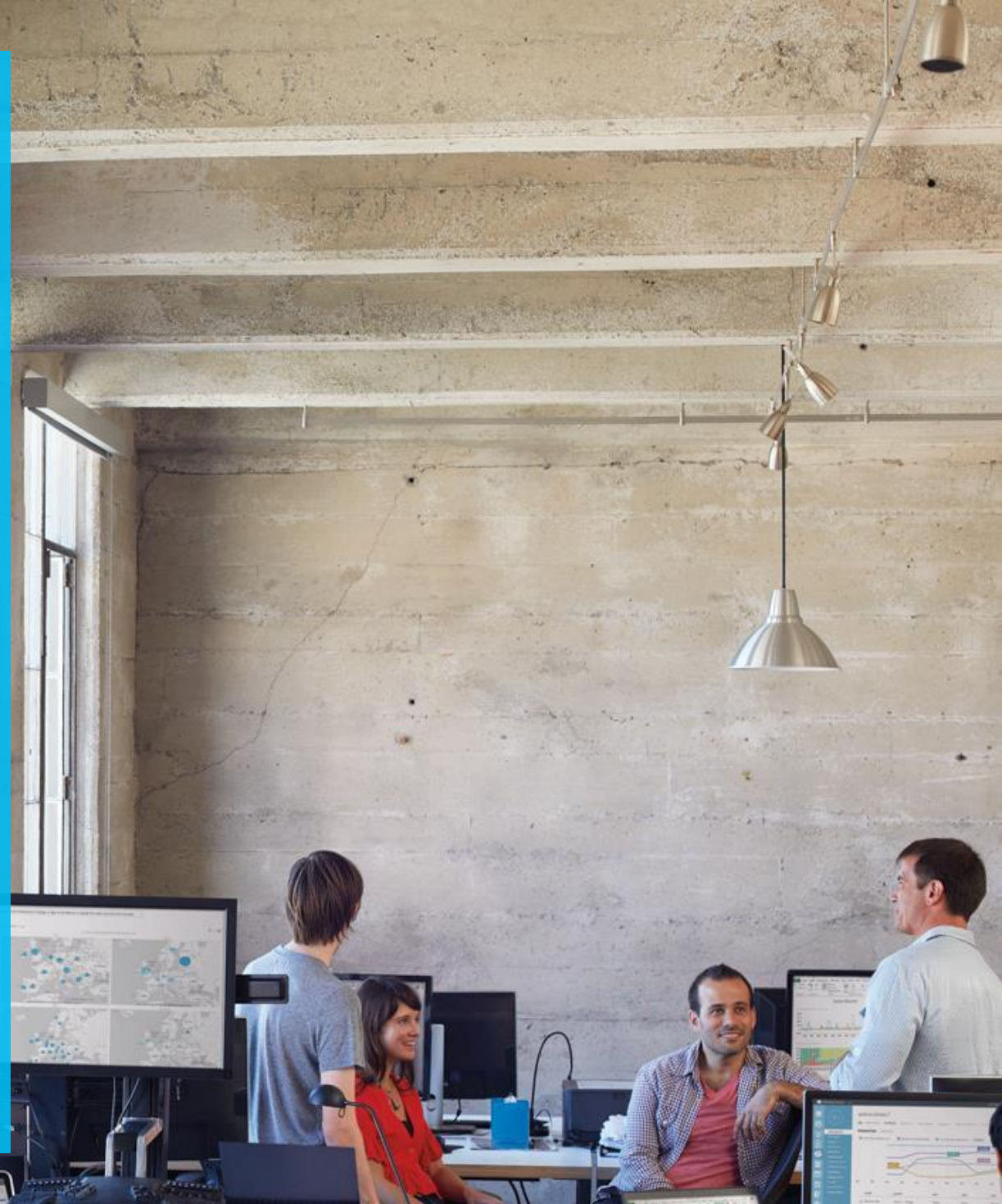


Skýjalausnir

Hver er raunvörulegur ávinningur?

Sævar Haukdal

16. mars 2016



HÁDEGISFUNDUR Á GRAND HÓTELI
16. MARS KL. 12-14

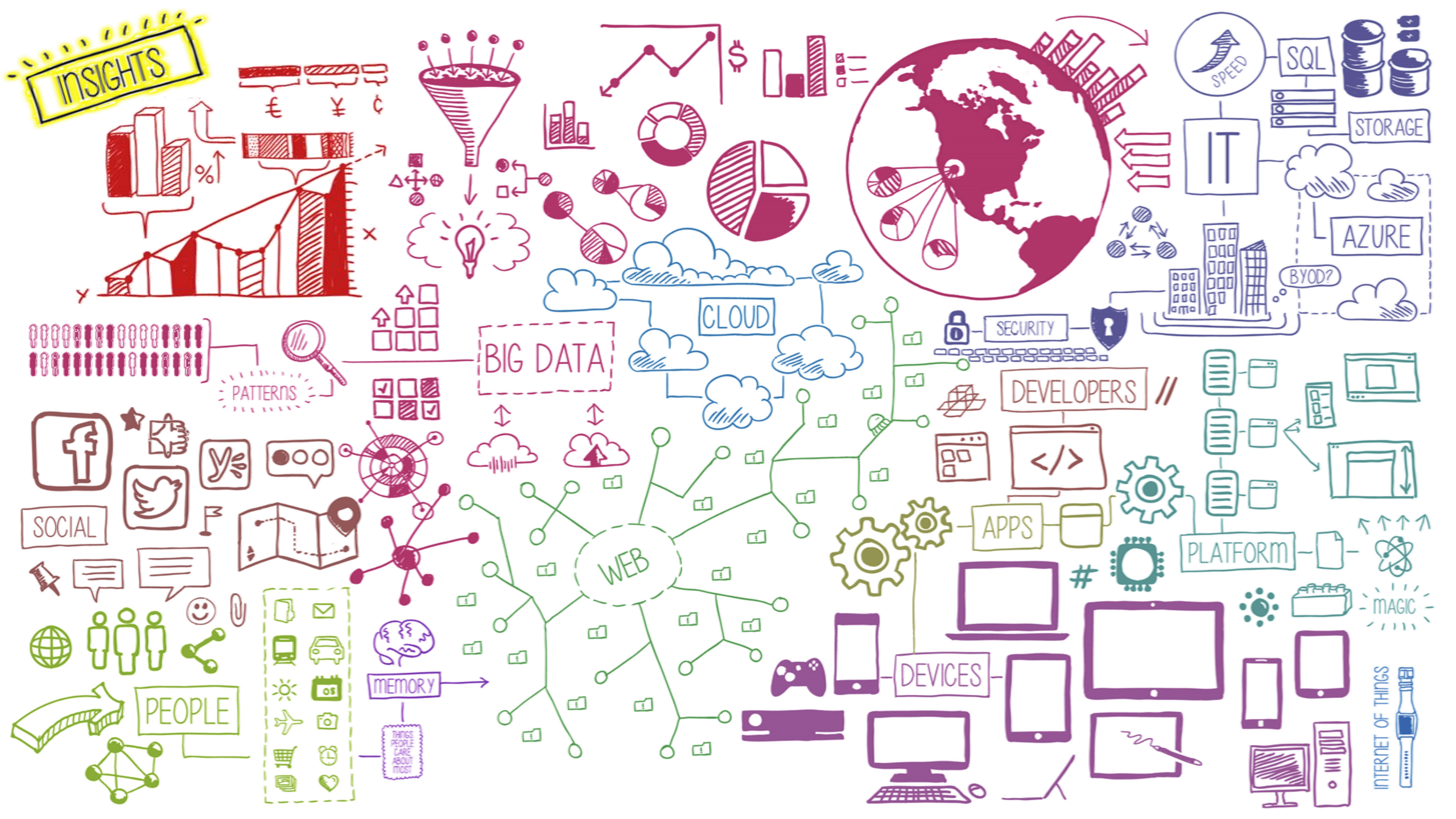
"SKÝJALAUSNIR: PENINGANA EÐA PERSÓNUVERND?"

Twitter: @Skylceland #Skyjalausnir



Bæði
betra





Four Megatrends Driving Cloud Computing



Data

Turn data into business insights and make an impact



Mobile

Produce, Consume & Present data & insights on many devices



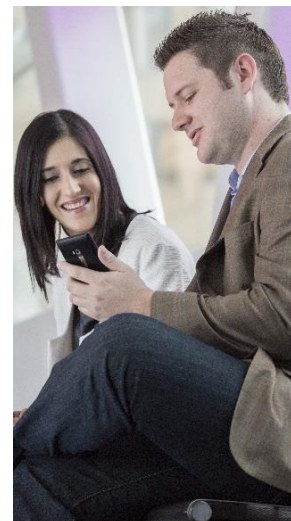
Cloud

Easy & Secure access to your confidential files and data from anywhere



Social

Collaborate in many ways with your colleagues and business partners



Technology trends: driving cloud adoption

CUSTOMERS ARE EAGER TO REALIZE CLOUD BENEFITS

Cloud Trend:

70%

of CIOs will embrace a cloud-first strategy in 2016

(IDC CIO Agenda webinar)

BENEFITS

Speed



2 weeks

to deliver new services
vs. 6-12 months with
traditional solution

(Case Study: HarperCollins
Publishers)

Scale



Scale from

30,000 to
250,000

site visitors instantly
(Case Study: Autocosmos)

Economics



\$25,000

in the cloud would cost
\$100,000 on premises

(Microsoft Azure BI Team, STMG
Proof Points Central)

Technology trends: driving cloud adoption

BUT CUSTOMERS MUST MEET OR EXCEED ON-PREMISES PROTECTIONS

Cloud Trend:

70%

of CIOs will embrace a
cloud-first strategy in 2016

(IDC CIO Agenda webinar)

REQUIREMENTS

Security



Infrastructure,
network & data
protection with
access control

Privacy



Customer
control of data
location & use
backed by contractual
commitments

Compliance

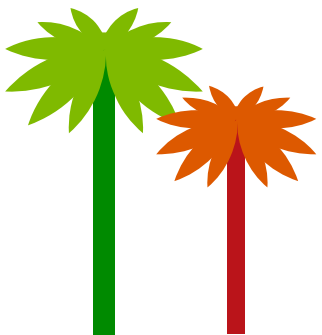
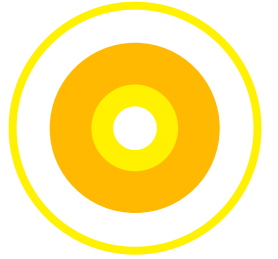


Independent

**audits and
certifications**

ISO, SOC, PCI DSS,
FedRAMP, HIPAA,
more

Mobile - Aukin framleiðni og frelsi



Mobile First | Cloud First



61% of workers mix personal and work tasks in their devices*



>80% of employees admit to using non-approved software-as-a-service (SaaS) applications in their jobs**



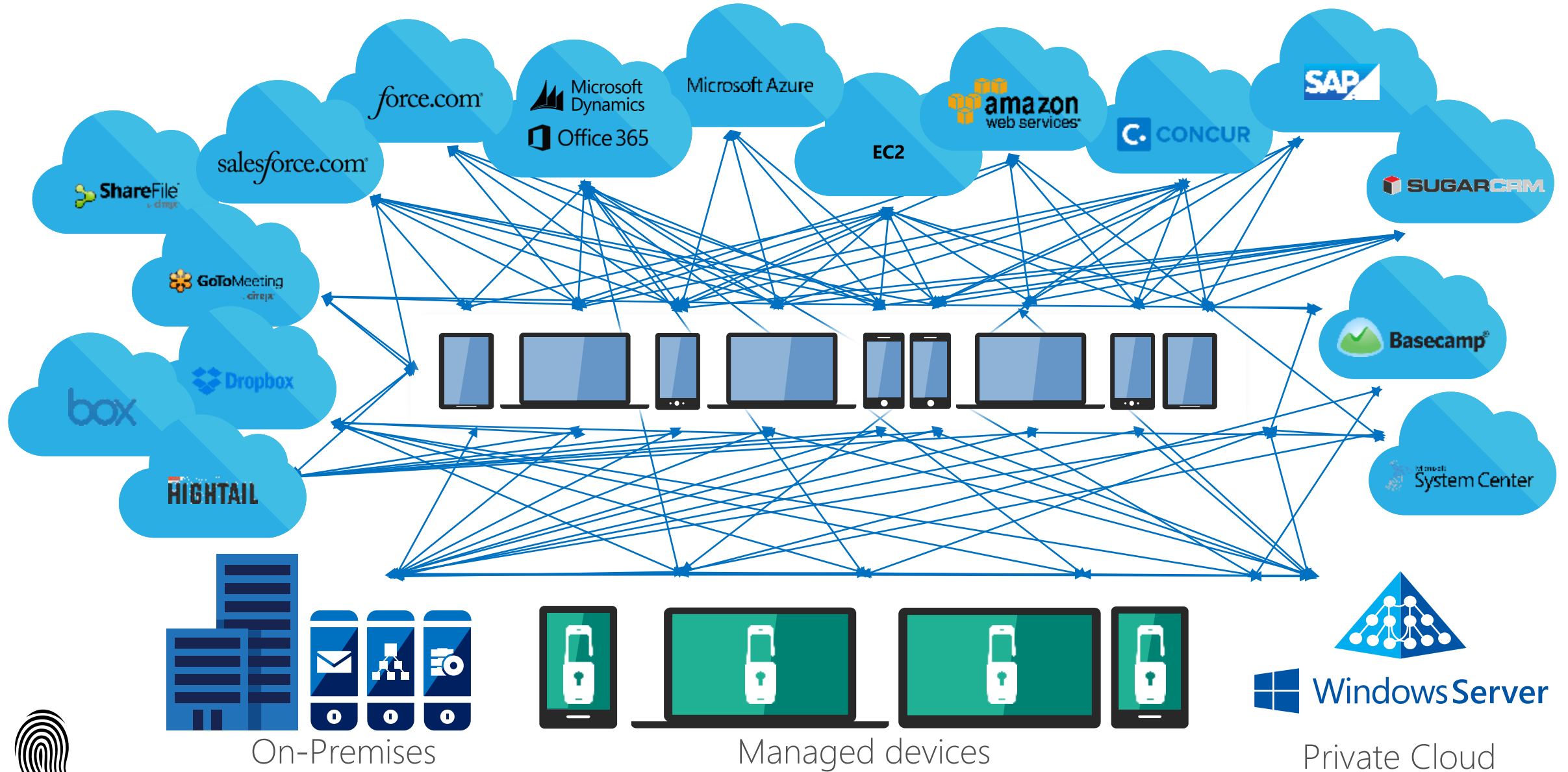
>75% percent of network intrusions exploited weak or stolen credentials ***

* Forrester Research: "BT Futures Report: Info workers will erase boundary between enterprise & consumer technologies," Feb. 21, 2013

** <http://www.computing.co.uk/ctg/news/2321750/more-than-80-per-cent-of-employees-use-non-approved-saas-apps-report>

*** Verizon 2013 data breach investigation report

The current identity reality...



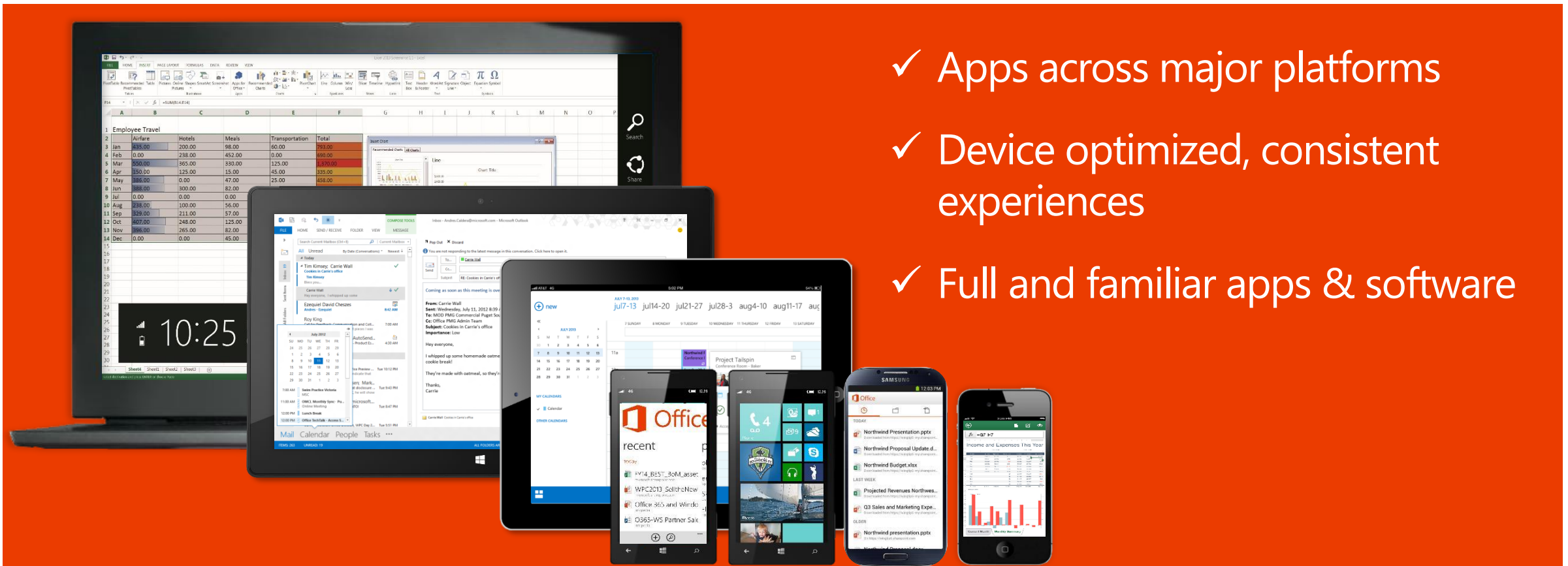
Mobile Productivity

Get work done, anywhere

Work Across Devices

Stay in Sync

Keep in Control



The image shows a collection of devices displaying Microsoft Office applications. A laptop in the background shows an Excel spreadsheet titled 'Employee Travel' with columns for dates, expenses (Airfare, Hotels, Meals, Transportation), and a total. In the foreground, a tablet displays the Outlook mobile app with a list of emails and a calendar view. A smartphone shows the Office mobile app with a 'recent' list of documents. Another smartphone displays a presentation slide titled 'Income and Expenses This Year' with a bar chart. The devices are arranged to show how the same work can be accessed and managed from different platforms.

- ✓ Apps across major platforms
- ✓ Device optimized, consistent experiences
- ✓ Full and familiar apps & software

Mobile Productivity

Empowering people to communicate and collaborate more effectively

Work Across Devices

Stay in Sync

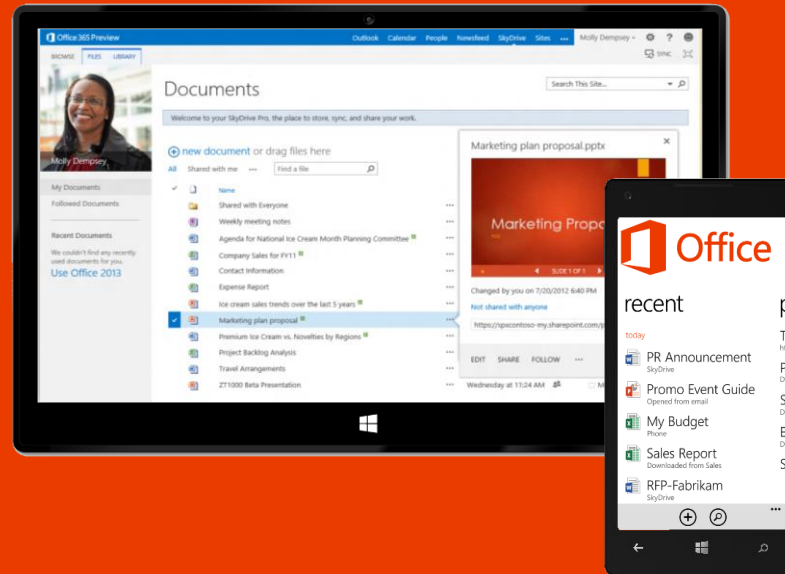
Keep in Control

...with people



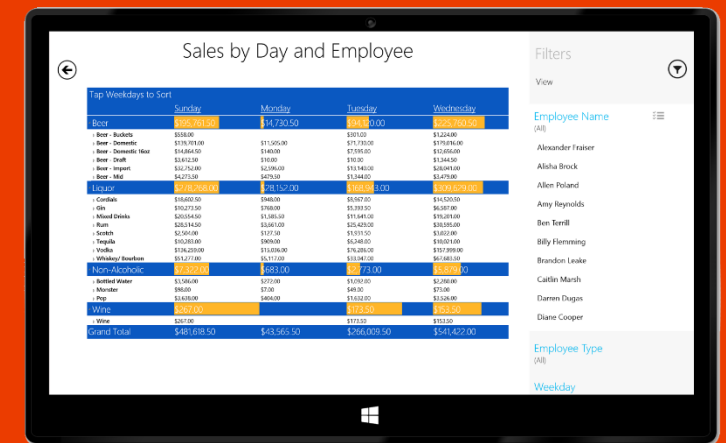
Meetings with HD video
Familiar apps with social
experiences

... with documents



Offline access to docs
Roaming docs and settings

... with data



Mobile access to data
Apps for your best work

Mobile Productivity

Help reduce risk of unwanted disclosure of data

Work Across Devices

Stay in Sync

Keep in Control



- ✓ Policies by user, device & location
- ✓ Selectively wipe enterprise data on devices
- ✓ Built in data loss prevention (DLP) controls
- ✓ Compliant with industry standards

Öryggislegur ávinningur



Azure Compliance

The largest compliance portfolio in the industry



ISO 27001



SOC 1 Type 2



SOC 2 Type 2



PCI DSS Level 1



Cloud Controls
Matrix



ISO 27018



Content Delivery and
Security Association



Shared
Assessments



FedRAMP JAB
P-ATO



HIPAA /
HITECH



FIPS 140-2



21 CFR
Part 11



FERPA



DISA Level 2



CJIS



IRS 1075



ITAR-ready



Section 508
VPAT



European Union
Model Clauses



EU Safe
Harbor



United Kingdom
G-Cloud



China Multi
Layer Protection
Scheme



China
GB 18030



China
CCCPF



Singapore
MTCS Level 3



Australian
Signals
Directorate



New
Zealand
GCIO



Japan
Financial Services



ENISA
IAF

Data protection

Encryption for data in transit

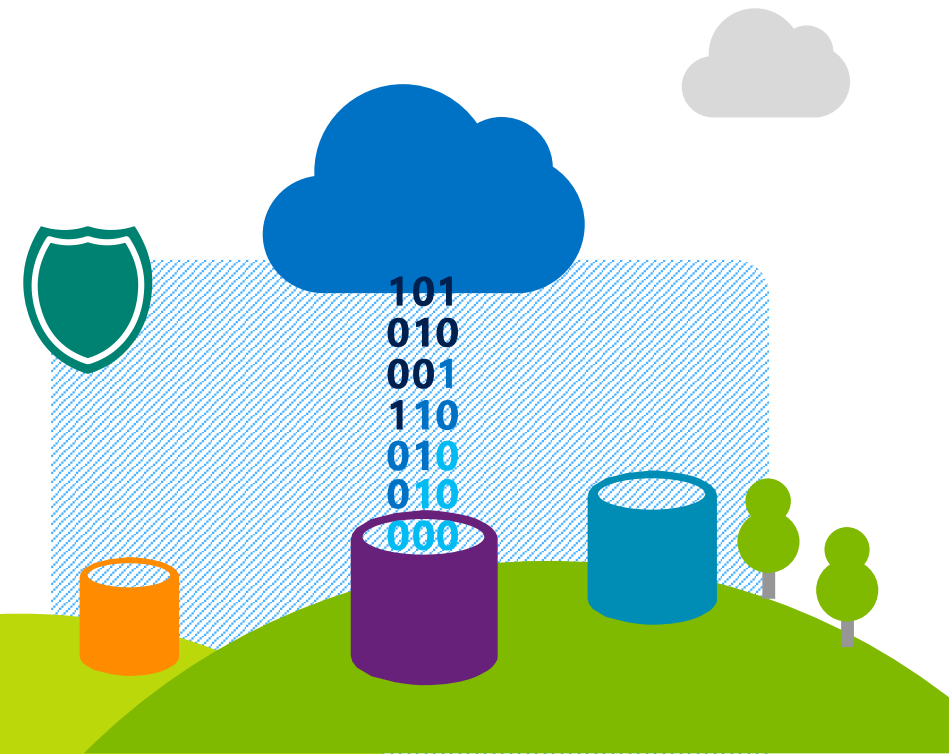
Industry standard SSL/TLS protocols are used for encrypting data in transit

Securing data at rest

Customers can implement a range of encryption options for virtual machines and storage

Data segregation

Logical isolation and access controls are employed



Customer Lockbox

Now we want to extend Lockbox approval to you for human access to customer content

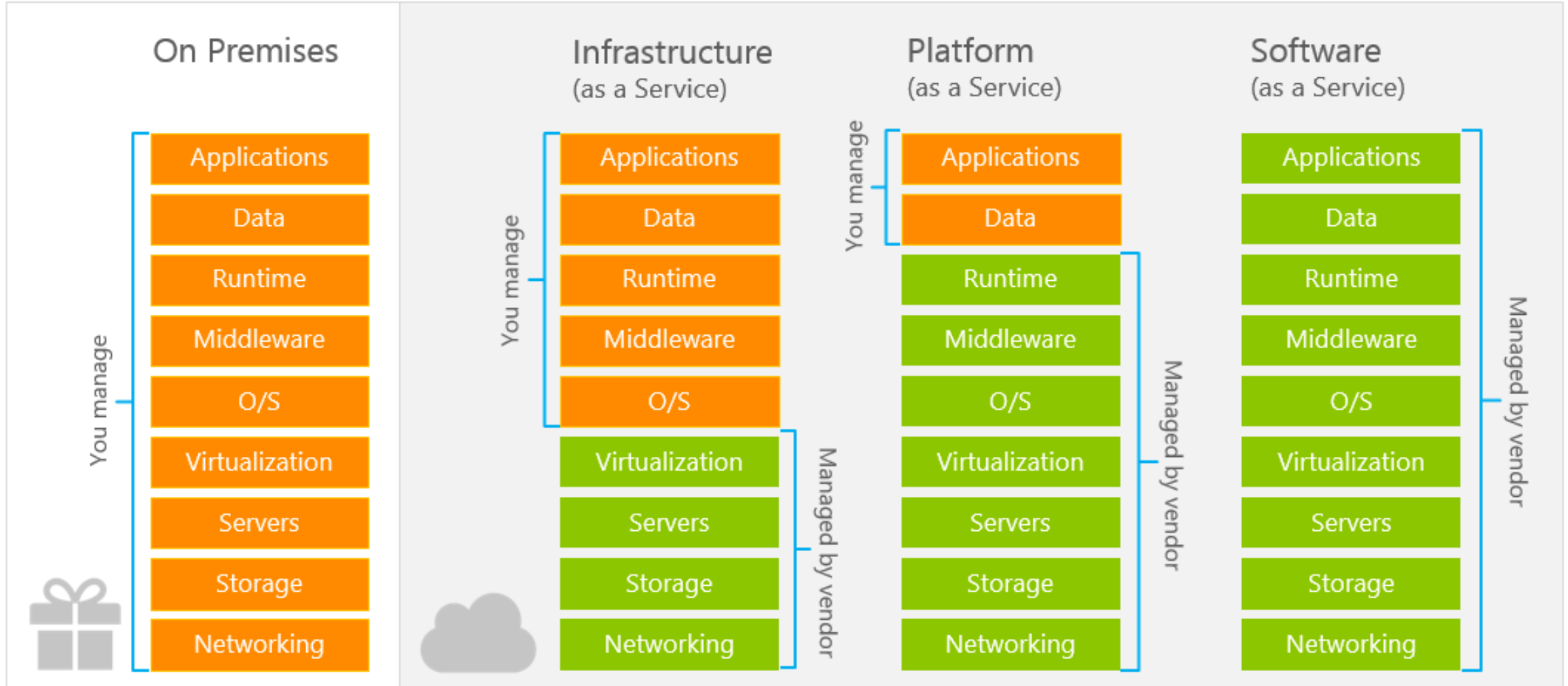


Customer controls authorization of personnel access

Rekstrarlegur ávinningur



Cloud Computing



Platform Services

Security & Management

- Service Creation & Configuration
- User/Group Directory Store
- Identity Sign-Up and sign-in
- Multi-Factor Authentication
- Scheduled Service Management
- Task Scheduler
- Encryption Key Store
- Software/Solution Marketplace
- Pre-Build VM Images

Services Compute

- Stateless Compute
- Distributed Compute
- Scheduled Compute Jobs
- Virtual App Streaming

Integration

- Simple Queuing
- B2B Integration
- Hybrid Connections
- Pub/Sub Queuing

Media & CDN

- Live & OD Media Streaming
- Content Delivery Network (CDN)

Web and Mobile

- Web Apps Infrastructure
- API App Infrastructure
- Mobile Backends
- Business Process Automation
- API Management
- Push Notifications

Developer Services

- Development Tools
- Software Development Kits
- Software Lifecycle Management
- Application Instrumentation

Data

- Relational SQL Database
- Data Warehouse
- Document Database Service
- Distributed In-Memory Cache
- Search
- Simple Key/Value Store

Analytics & IoT

- Big Data Analytics
- Predictive Analytics
- Data Stream Analytics
- Big Data Storage
- Data Pipelines
- Device Data Collection
- Data Source Management
- IoT Device Management
- Mobile Analytics

Hybrid Operations

- Directory Health Monitoring
- Privileged Identity Management
- Domain Join & Policy Management
- Server Data Backup
- Operational Analytics
- Bulk Data Import And Export
- Disaster Recovery
- Hybrid/Intelligent Data Backup

Infrastructure Services

OS/Server Compute

- Virtual Servers
- Containers

Storage

- Disk based Object/File Storage
- Shared Storage
- SSD based Object/File Storage

Networking

- Virtual Network
- VM Load Balancer
- DNS
- Direct Network Connections
- Traffic Distribution
- VPN Gateway
- HTTP Load Balancer

Datacenter Infrastructure



Open cloud

DevOps

Nagios



Clients



Xamarin



APACHE CORDOVA™

Management



ANSIBLE



SALTSTACK



mist.io



libcloud



SCALR
CLOUD MANAGEMENT

Applications



PaaS &
DevOps

apprenda®

Jelastic



CLOUD
FOUNDRY



App Frameworks & Tools



nodeJS



IntelliJ IDEA



eclipse

Databases & Middleware



redis



cleardb

cloudera



mongoDB



Couchbase

Infrastructure



redhat



bitnami

ORACLE
LINUX

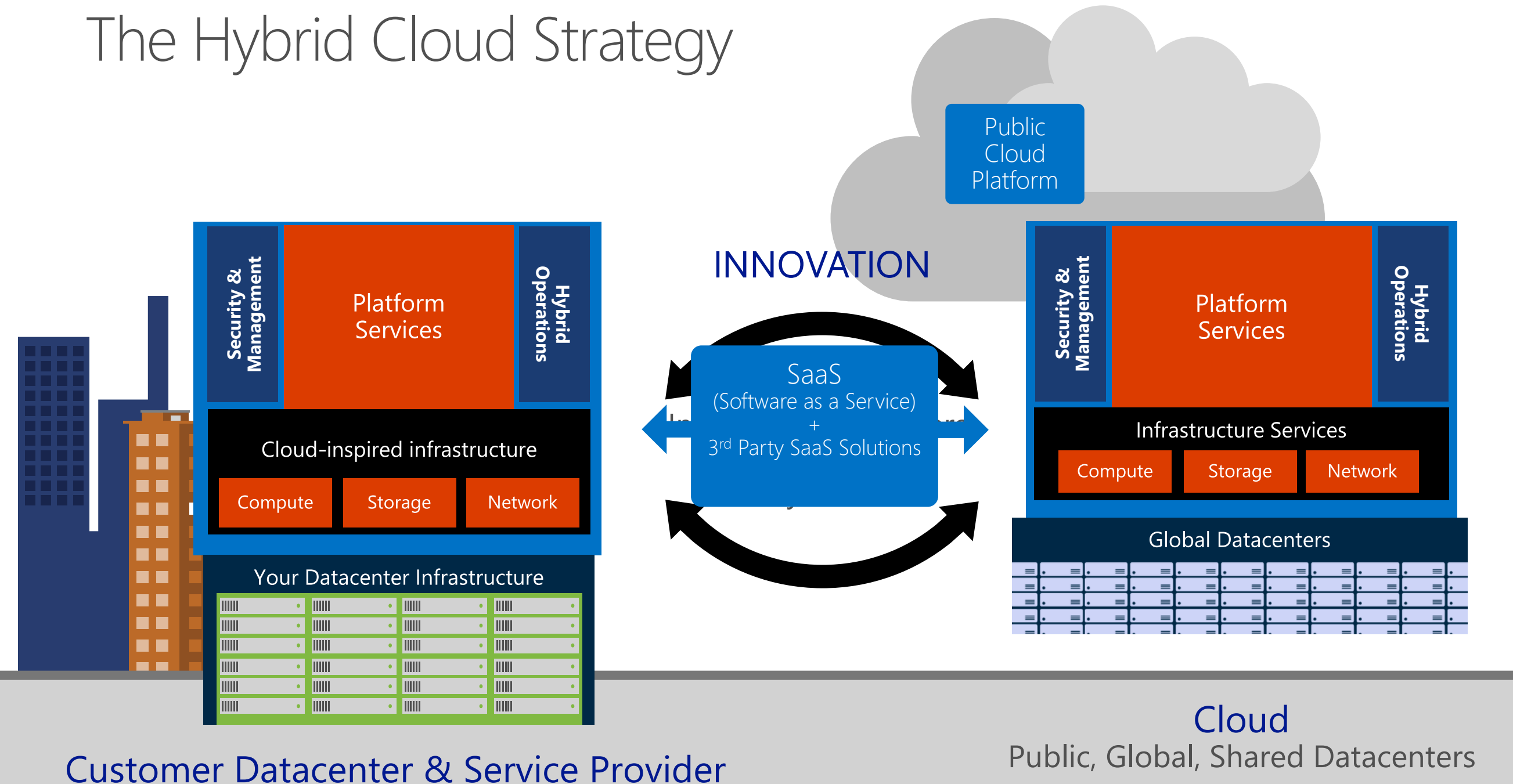


FreeBSD

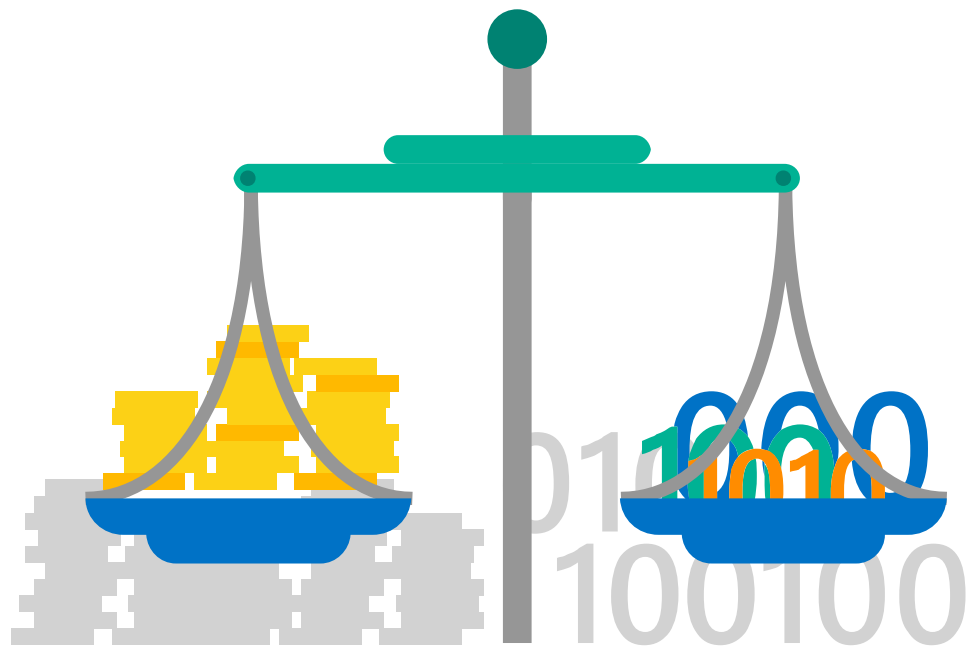


docker

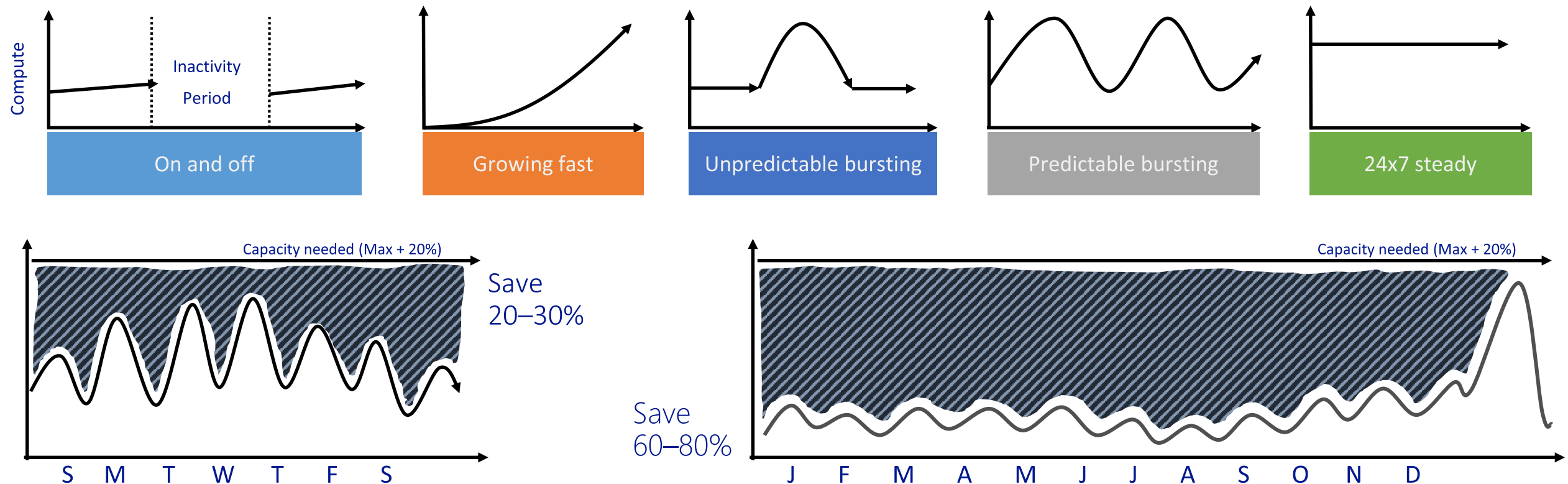
The Hybrid Cloud Strategy



Fjárhagslegur ávinningur



Computing patterns



Your application portfolio—what does it look like?

Business is powered by the cloud

"Cloud is a given. CIOs no longer ask *whether* they should use cloud, but rather *how*."*

Improve efficiency

"Traditional on-premises data storage is four times the cost of cloud storage."**



Reduce costs and inefficiencies

Enable innovation

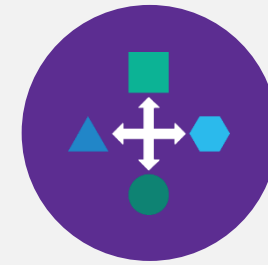
"55% of CIOs indicated they would source all their critical apps in the cloud by 2020."***



Increase revenue with existing assets

Transform your business

"Seventy percent of CIOs will embrace a cloud-first strategy by 2016."****



Create new business models

*"Cloud Evolves From Point Solution To Strategic Enabler Of The New Connected Economy," Forrester, Liz Herbert, January 2015

**Forrester, 2014

***Smith, David Mitchell et al. Predicts 2014: Cloud Computing Affects All Aspects of IT. Gartner, Inc. December 4, 2013.

****JDC, CIO webinar, 2014



Q&A