

9° Foro de Cloud Computing:
Arquitectura Cloud



Aplicaciones escalables con Microsoft Azure

Nicolás Jiménez

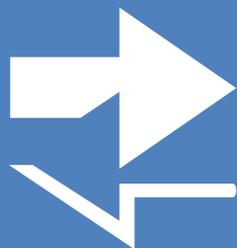
Cloud Architect

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Porque considerar la Nube?

Speed



Scale



Economics





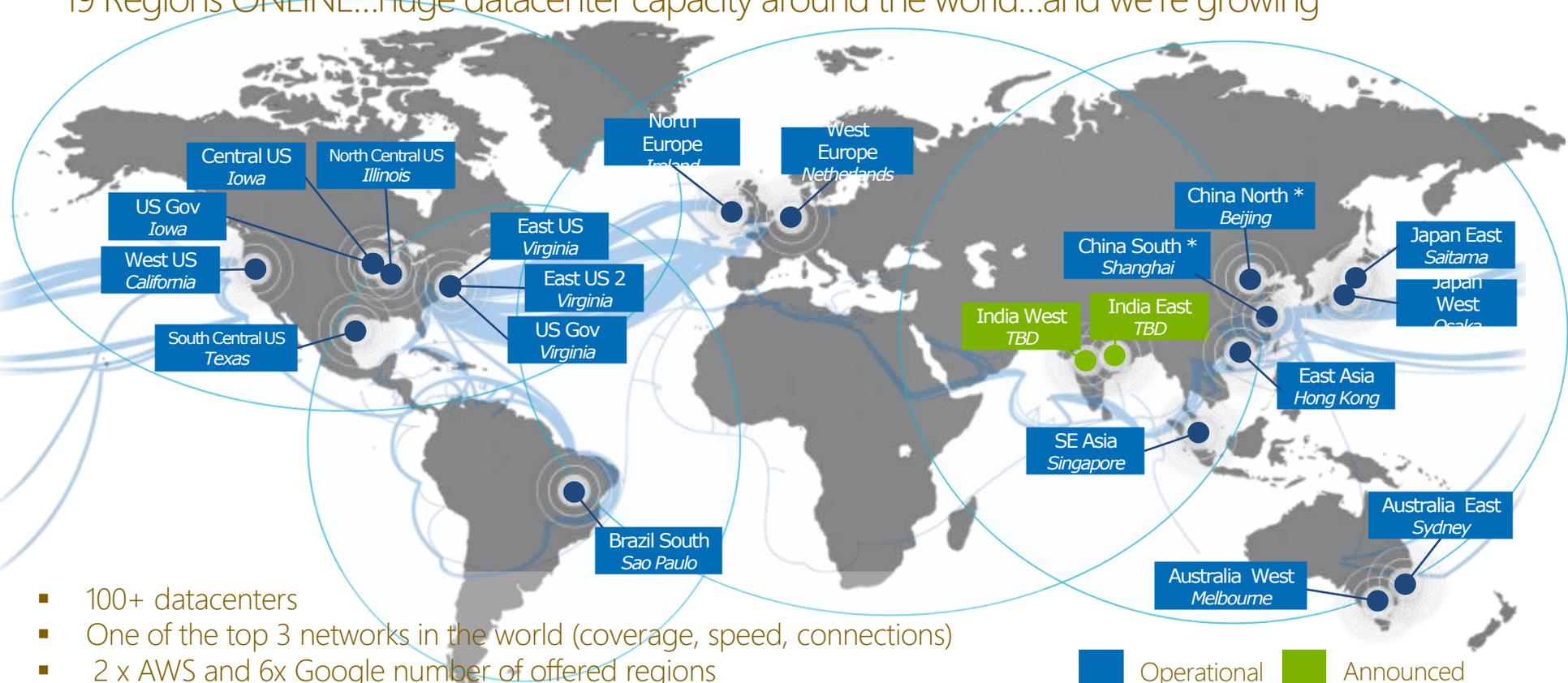
Azure
footprint



Azure
footprint

Huge infrastructure scale is the enabler

19 Regions ONLINE...huge datacenter capacity around the world...and we're growing



- 100+ datacenters
- One of the top 3 networks in the world (coverage, speed, connections)
- 2 x AWS and 6x Google number of offered regions
- G Series – Largest VM available in the market – 32 cores, 448GB Ram, SSD...

Operational Announced

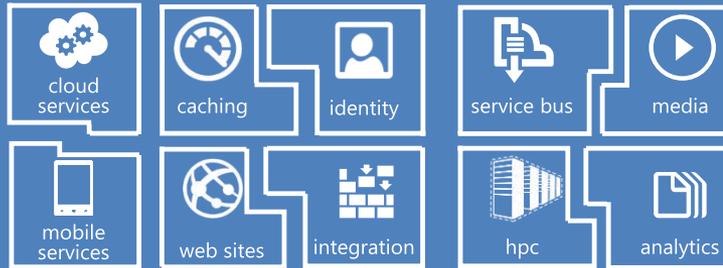
What is Azure?



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app platform services



data services



infrastructure services



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app platform services

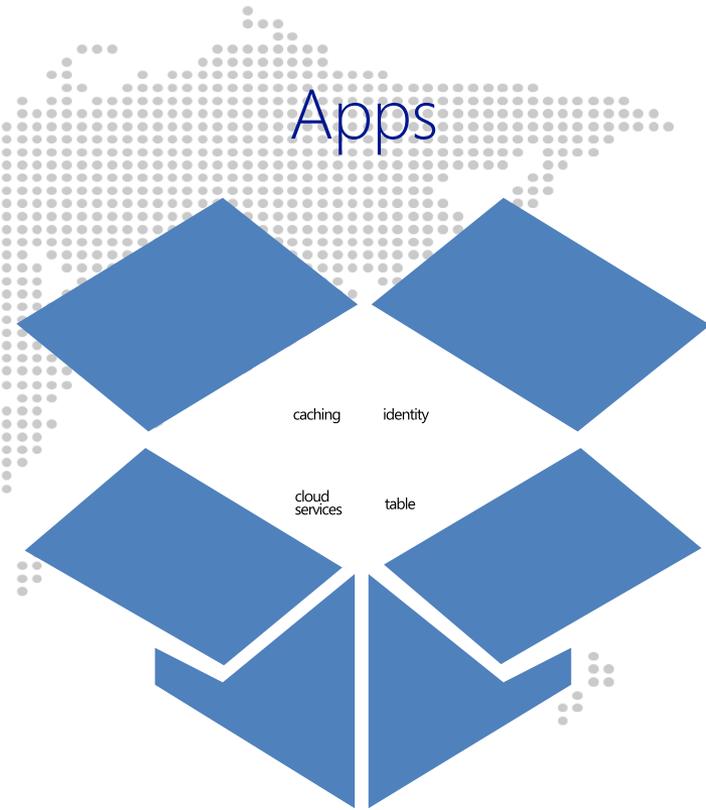
cloud services	caching	identity	service bus	media
mobile services	web sites	integration	hpc	analytics

data services

SQL database	HDInsight	table	blob storage
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infrastructure services

virtual machines	virtual network	vpn	traffic manager	cdn
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app platform services

cloud services	caching	identity	service bus	media
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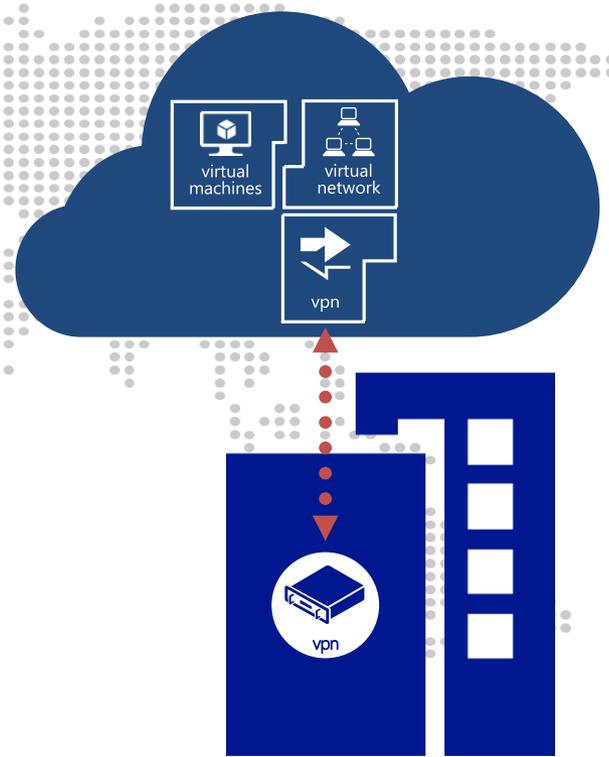
data services

SQL database	HDInsight	table	blob storage
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infrastructure services

virtual machines	virtual network	vpn	traffic manager	cdn
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Azure datacenters,
your datacenters.



Market Endorsement

Gartner Magic Quadrant for Enterprise **Application Platform as a Service (PaaS)**



Gartner Magic Quadrant for Cloud **Infrastructure as a Service (IaaS)**



Gartner Magic Quadrant for Public **Cloud Storage Services**



Gartner Magic Quadrant for **Virtualization**



4

Microsoft is Leader in all 4 Gartner MQs...
... no other company in the market has this

Web

Develop apps with...

.NET	Node.js	PHP
Python	Java	



DEVELOPERS



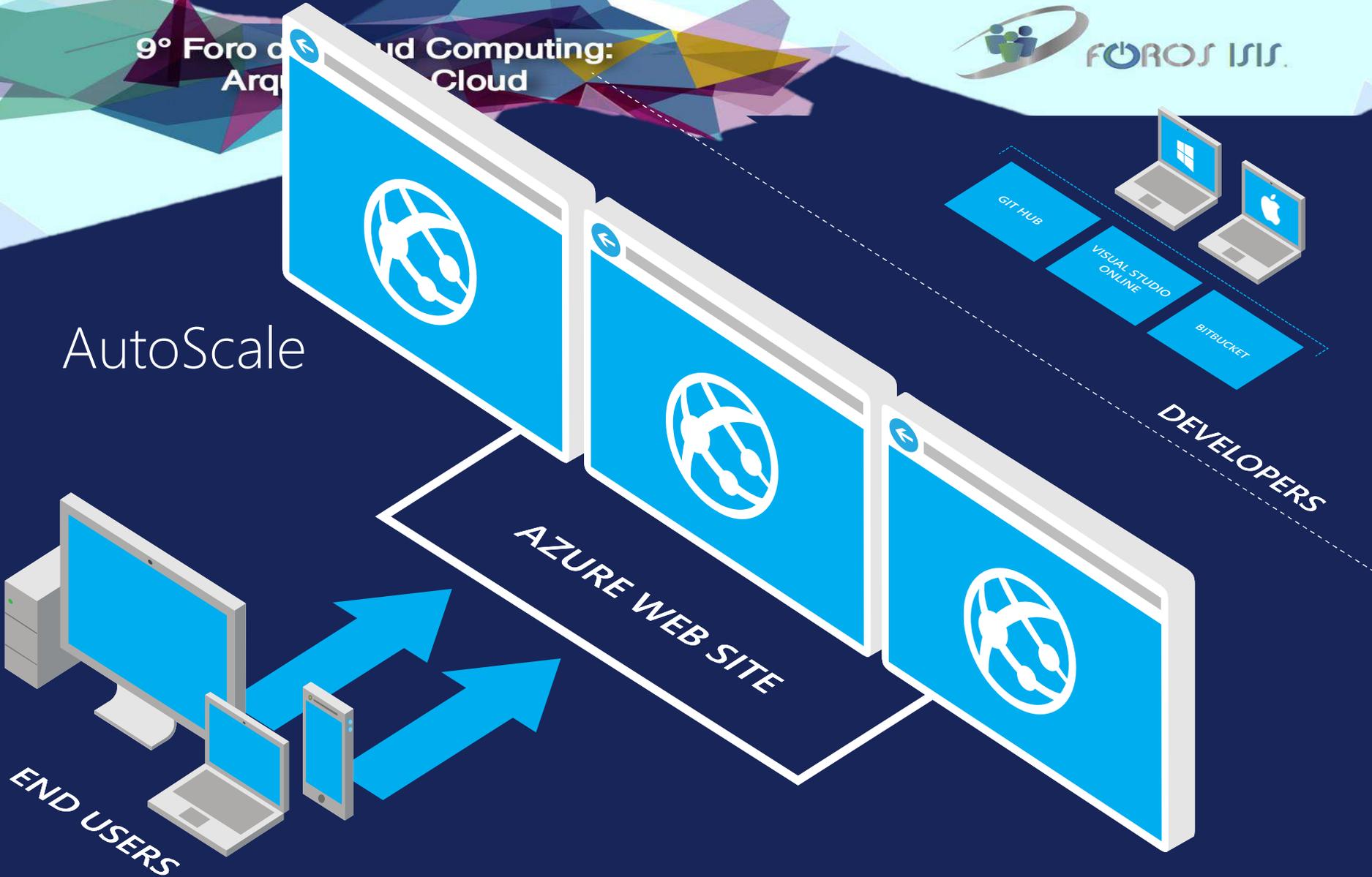
END USERS

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AutoScale





AutoScale

AZURE WEB SITE

END USERS



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Staging



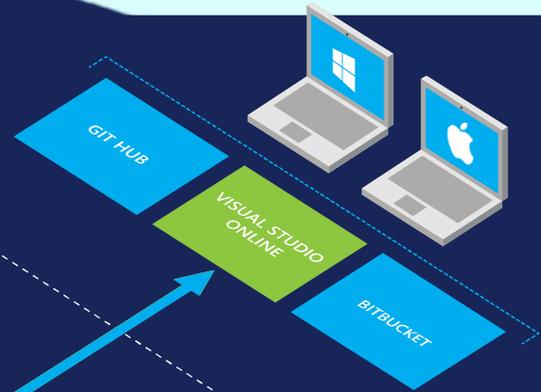
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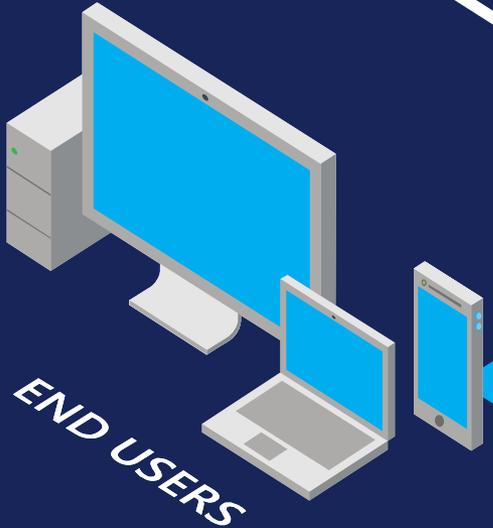
Staging



Staging



AZURE WEB SITE



Staging



WebJobs



WebJobs





Intelligent customer routing
with Traffic Manager



Intelligent customer routing
with Traffic Manager

Mobile

Open Game



Microsoft Azure

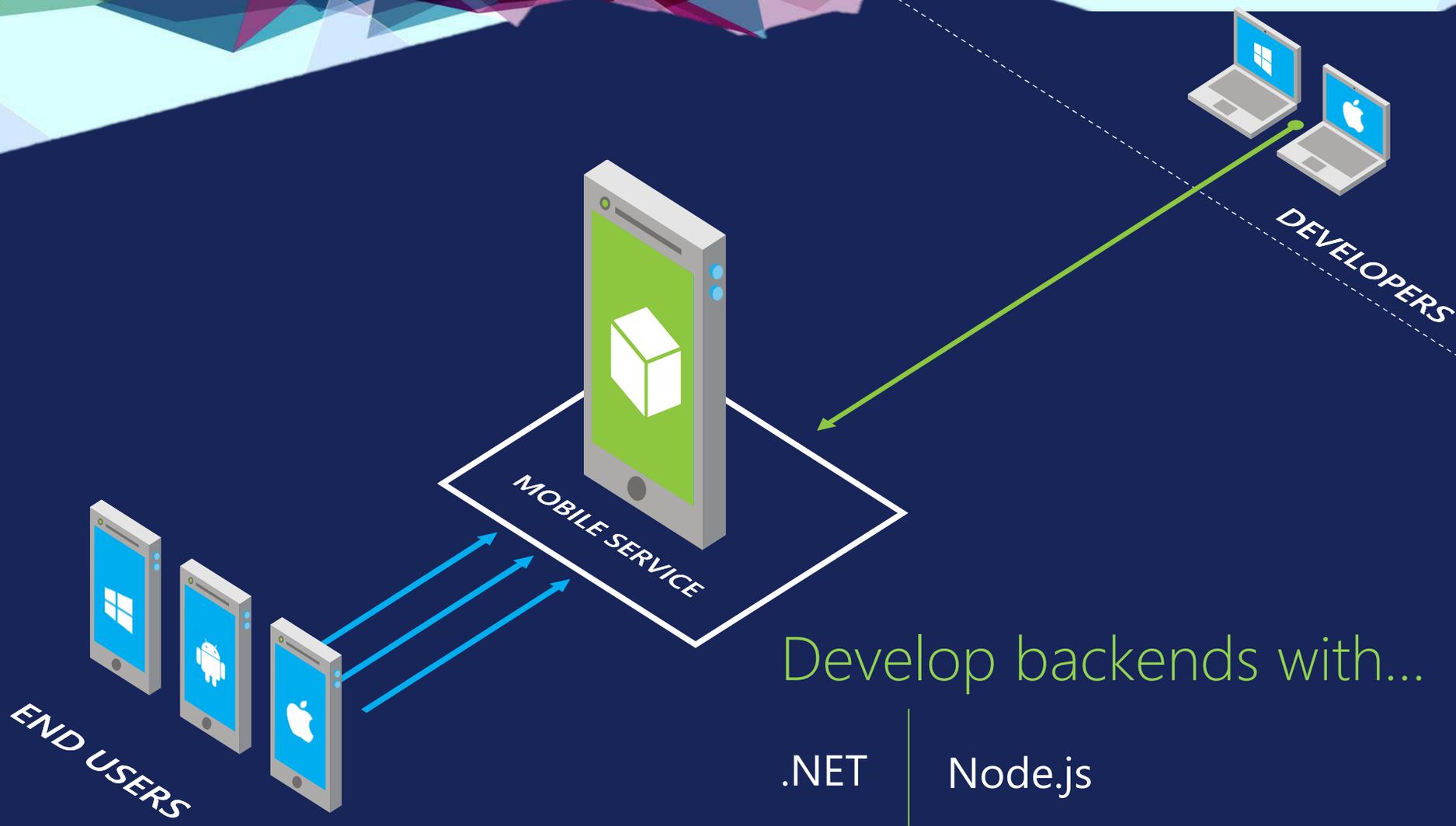
Architectural Guidance
Technologies – Frameworks -
Models

Mobile Development and Testing
Environments-Dev Workstations Configuration
Deployment & Operation – Testing

Project Management

Distribution, APIs/Frameworks evolution + Fragmentation

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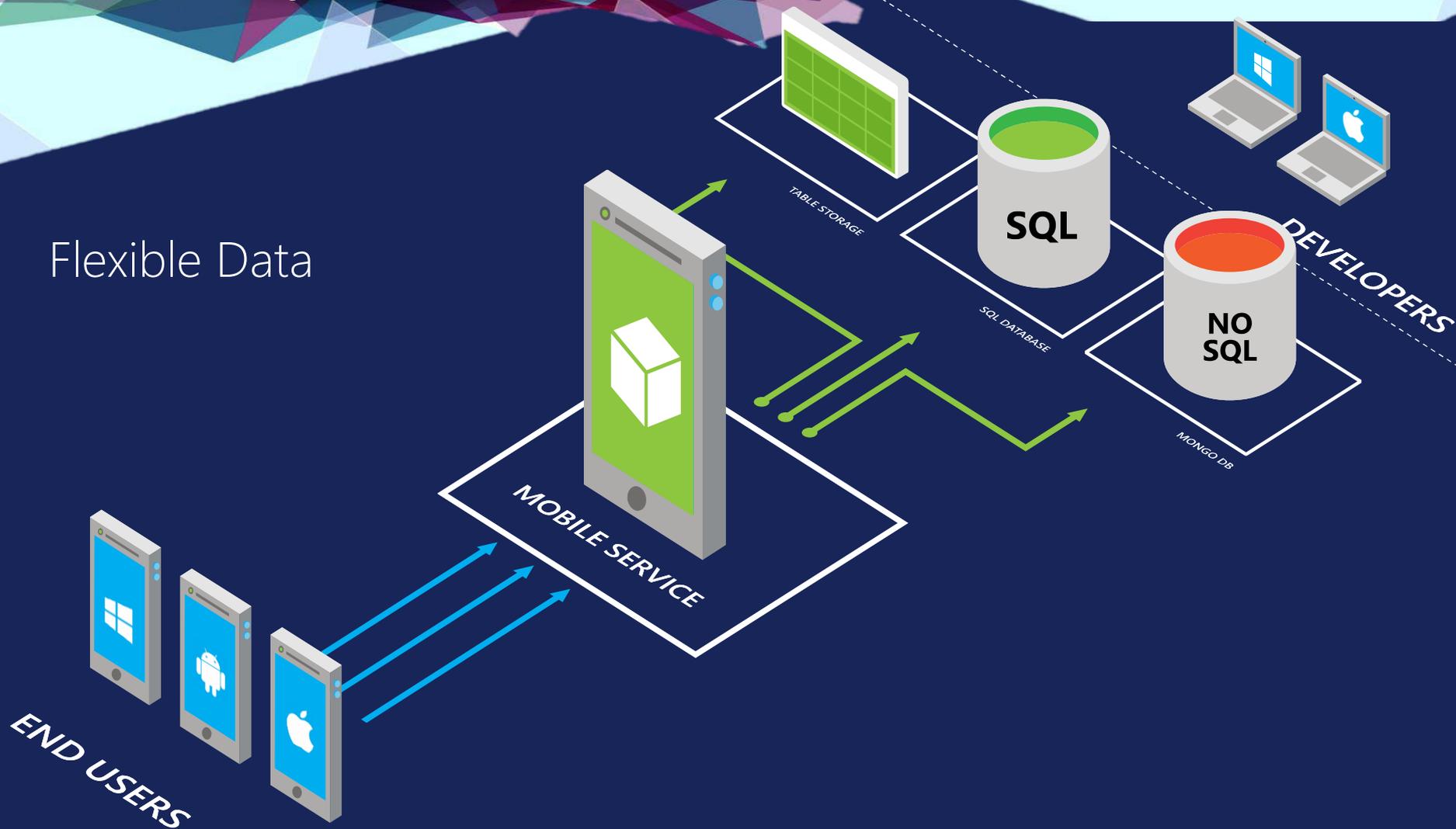


Develop backends with...

.NET | Node.js

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Flexible Data



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Broadcast Notifications

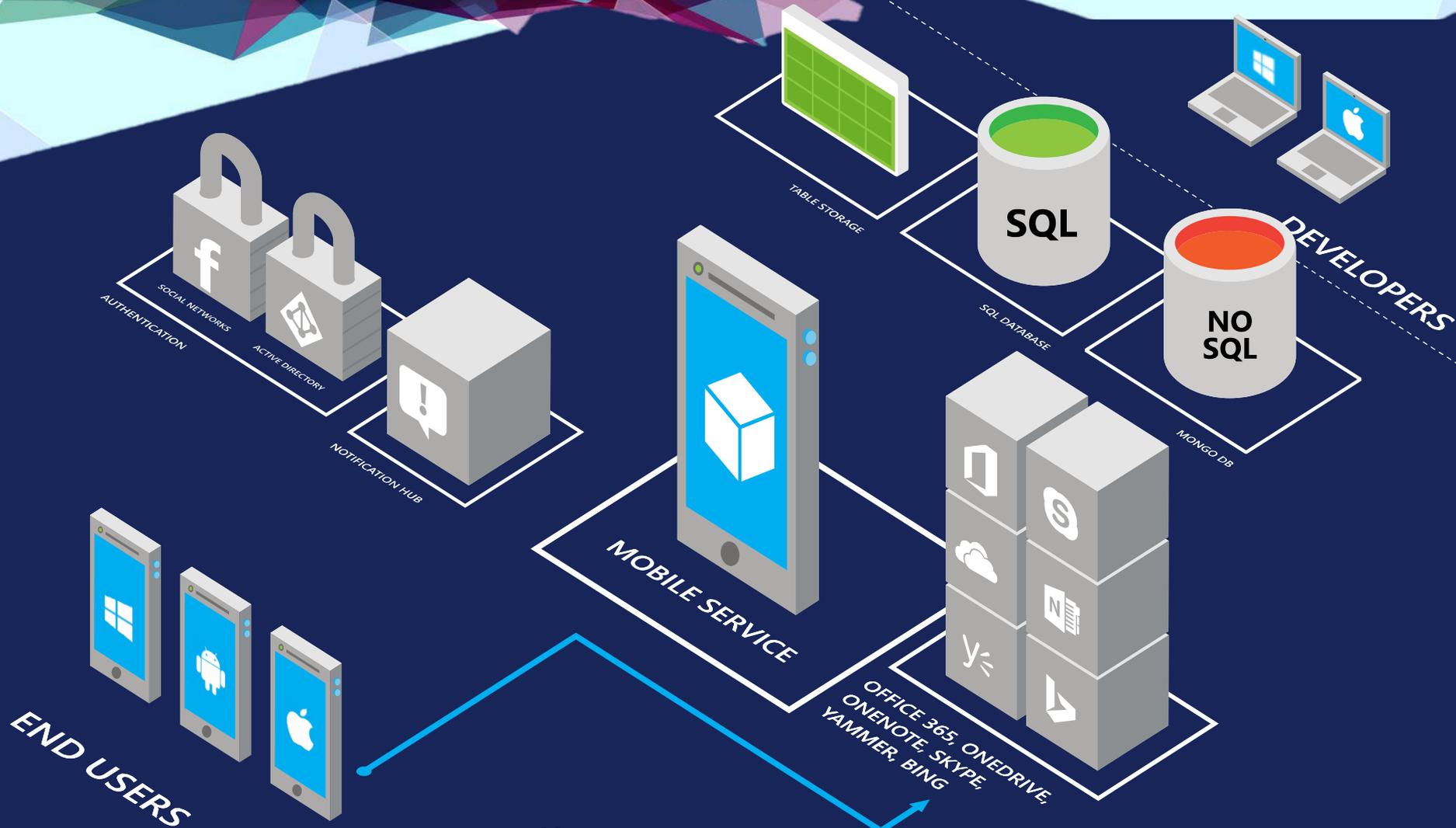


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Social Authentication +
Active Directory

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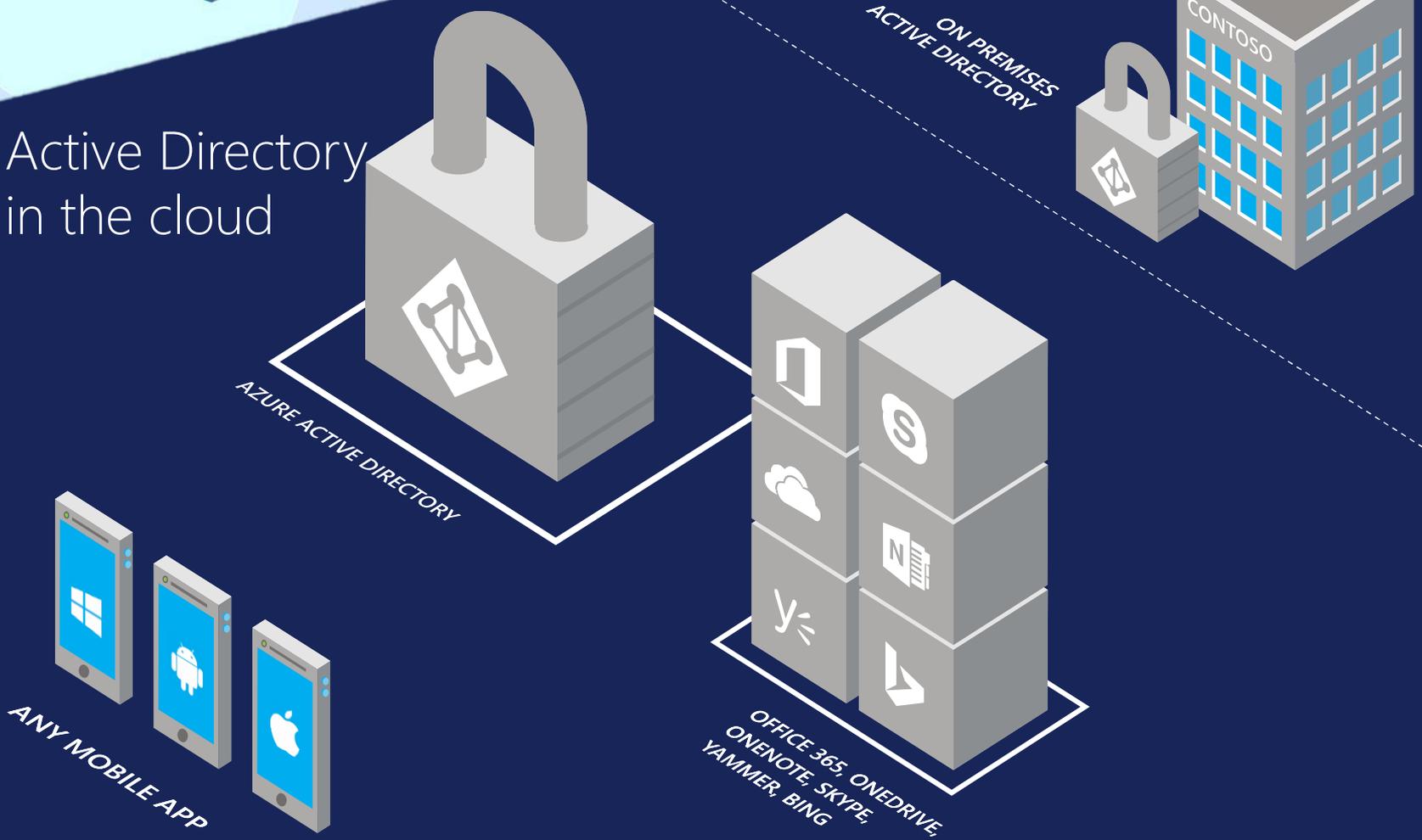
Office 365 APIs

Identity

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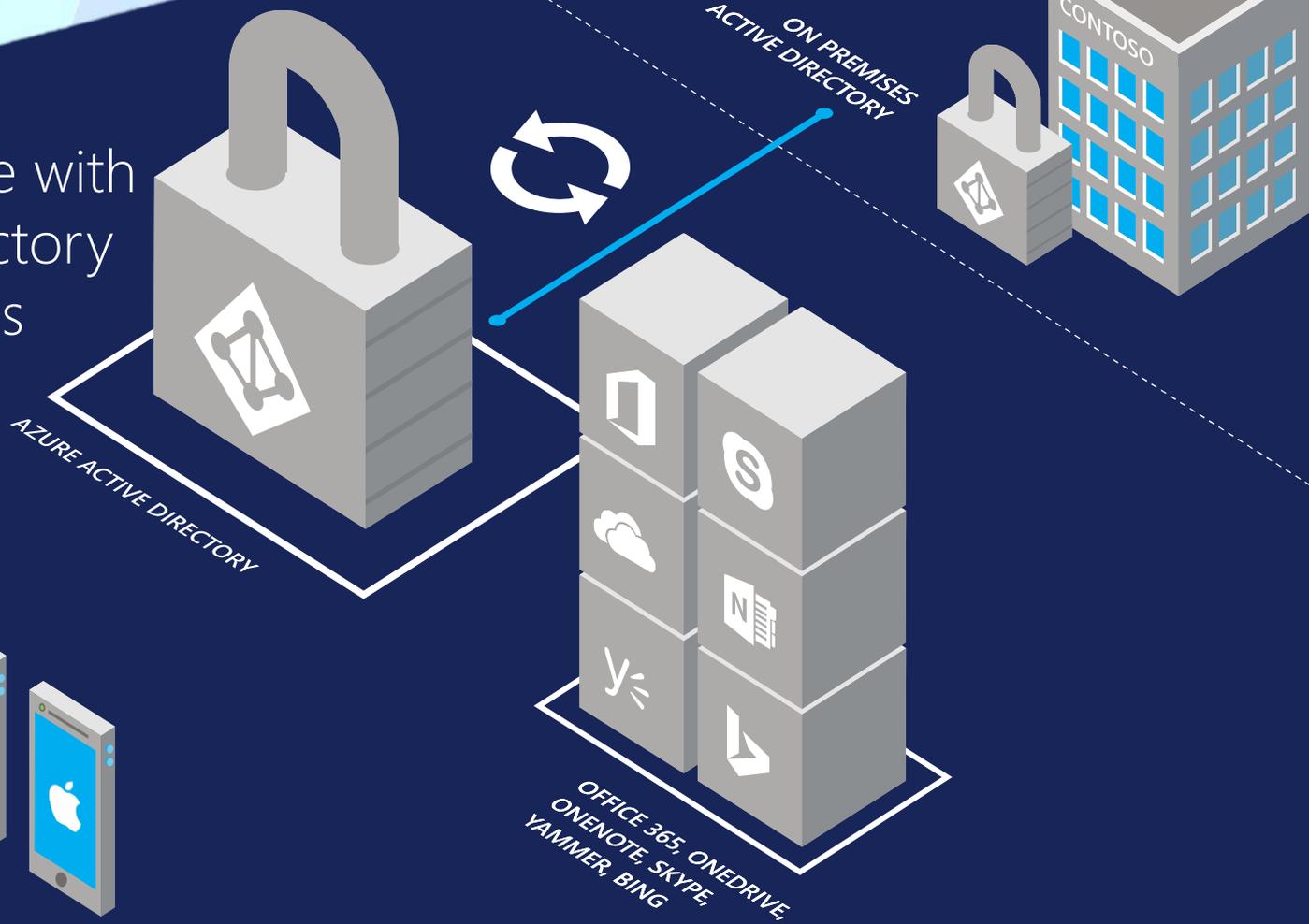
Active Directory
in the cloud



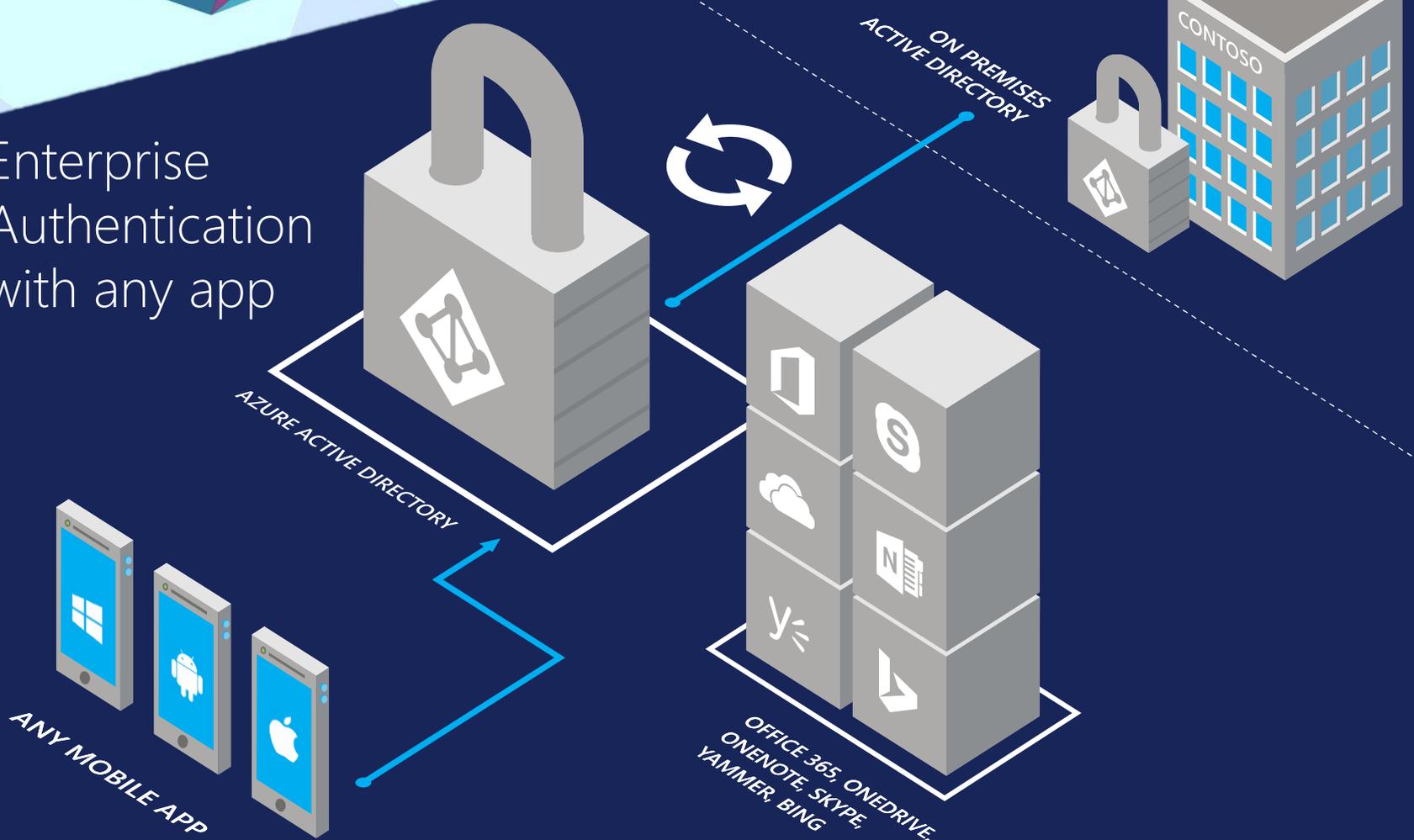
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Synchronize with
Active Directory
on-premises



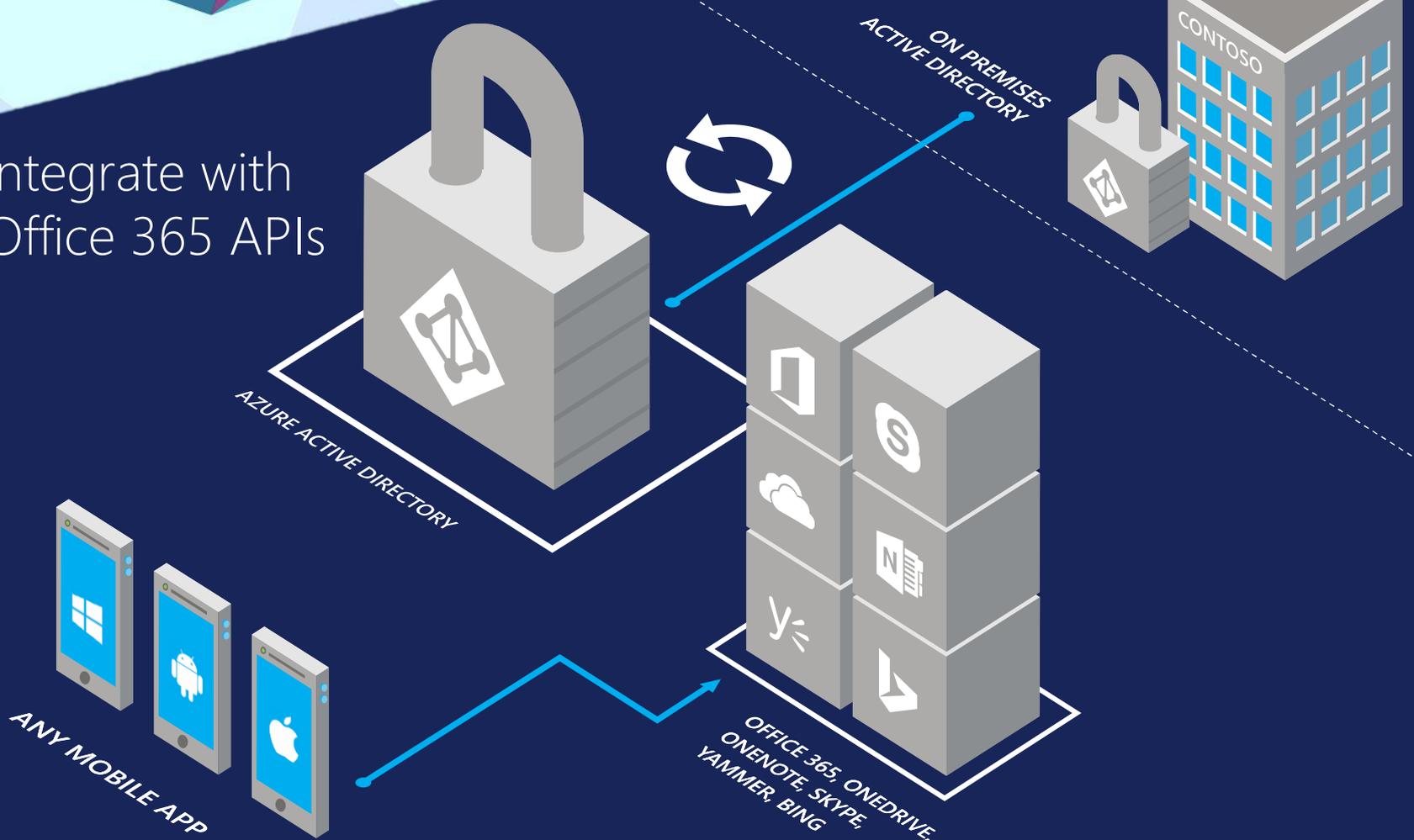
Enterprise
Authentication
with any app



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Integrate with
Office 365 APIs



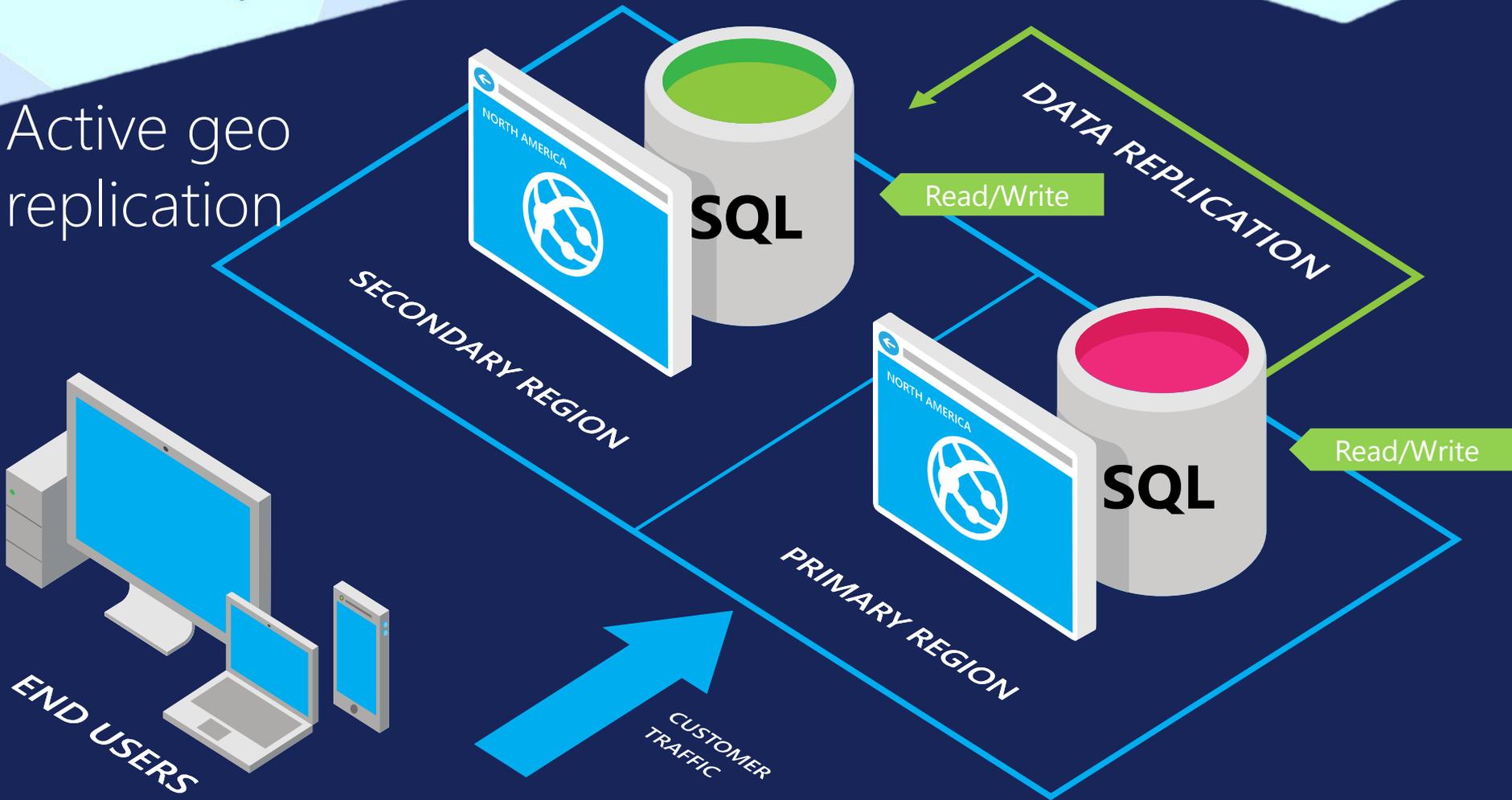
Data

New
99.99%
SLA



150 GB
500 GB

Active geo replication

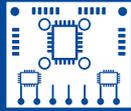


IoT

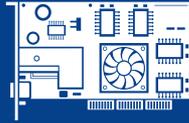
What we mean by devices



Single-line display



Small embedded
(~8 cm)



Medium embedded
(~13 cm)



Wearable



Smartphone



Small tablet



Large tablet



Small laptop



Medium laptop



Large laptop



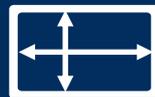
Desktop



Advertising display



Device-tailored



Resizable

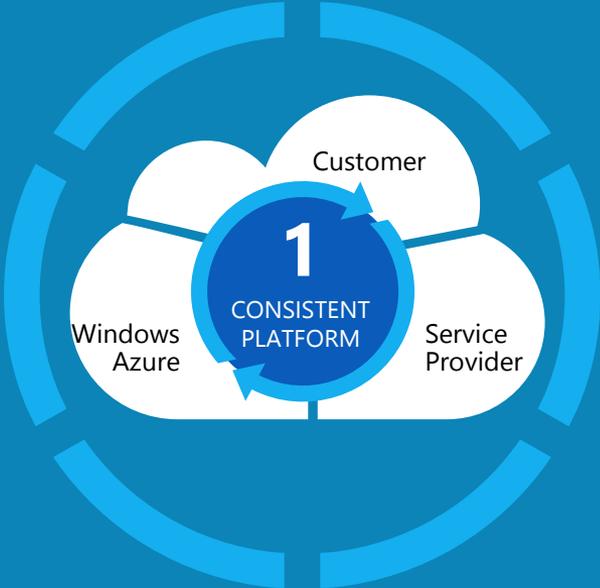


Device & Services Considerations

 X-Platform	 Offline Access	 Location	 Small Factor	 NUI	 Keyboard Mouse
 Sensors	 Search	 Telemetry	 Mobility	 Roaming	 Hardware
 Touch	 Store	 Offline	 Battery Life	 Variable Displays	 Legacy Code

Cloud-enabled modern apps support business growth

-  Multi-device
-  Rapid lifecycle
-  Any data, any size
-  Secure & available



DEVELOPMENT

MANAGEMENT

DATA

IDENTITY

VIRTUALIZATION

Referencias

[Tour virtual a un centro de datos de Azure](#)

[Tappsi y Azure ayudan a la movilidad](#)

[Olimpiadas de Invierno sobre Azure](#)

[Blueprints de arquitecturas](#)

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Microsoft