

Intel[®] and Microsoft[®]
Better Together in the Cloud

Windows Server[®] 2016 + Azure



Microsoft and Intel helping to shape the future of education

Engage Students



Inspire and prepare students of all ages and abilities for today and their future

Empower Educators



Enable educators to help every student achieve his or her greatest potential

Enable Schools



Provide solutions to manage school infrastructures within a safe and productive learning environment

IT is being pulled in two directions

Support education agility
and innovation

Provide secure, controlled,
IT resources

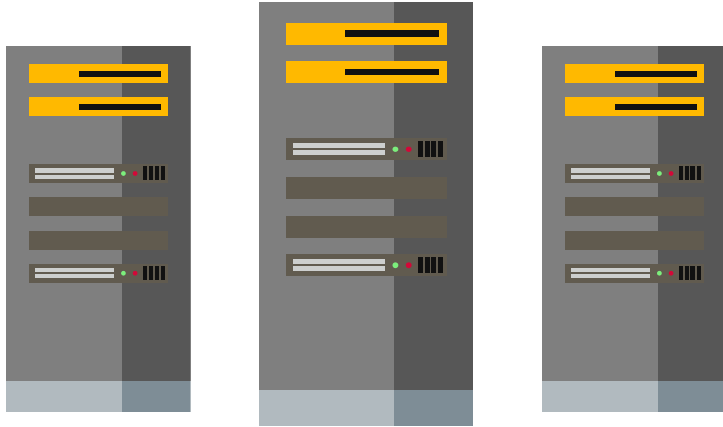
By 2017, 50% of total IT
spending will be spent
outside of the formal IT
organization[†]



[†]Gartner, "[Your vendor ecosystem is changing quickly](#)", 2016

.....and needing to modernize while still supporting legacy

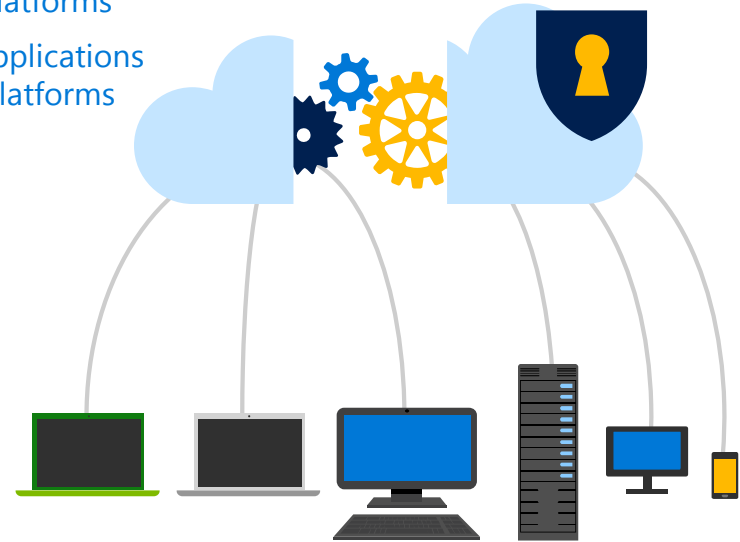
Traditional Legacy Applications



New Cloud-Ready Applications

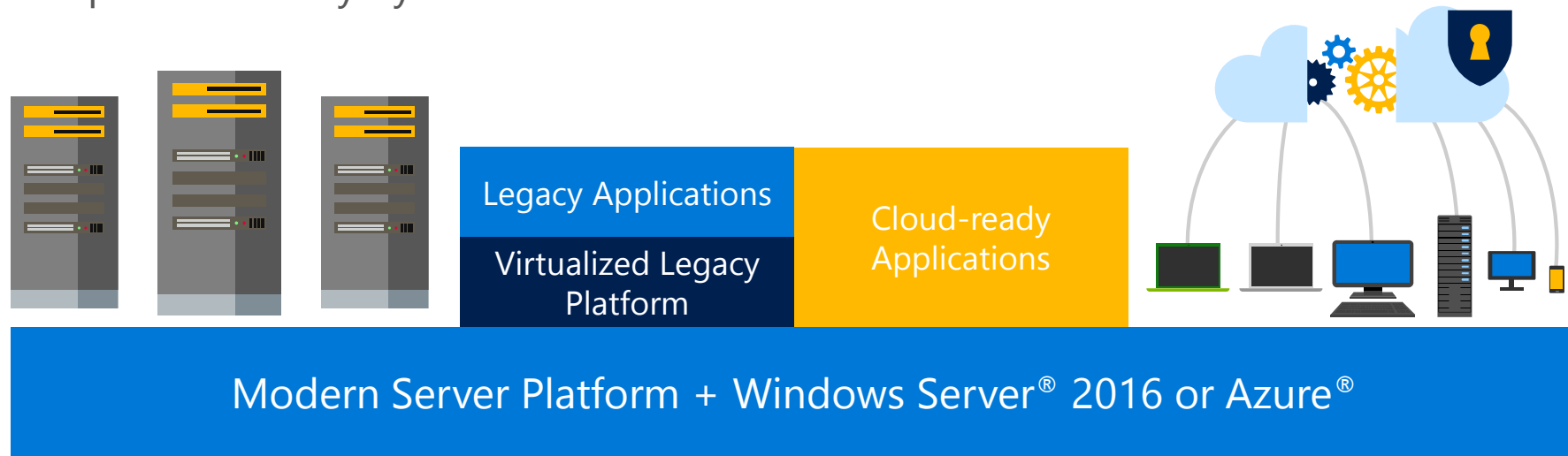
Legacy applications run on
older hardware platforms

New cloud-ready applications
require modern platforms



Windows Server® 2016 + modern Intel® processor-based servers

Prepare for a fully hybrid environment



Modernizing your server platform allows you to run both new applications as well as legacy side by side, setting the stage for a full migration to 100% cloud-ready apps

One consistent platform across clouds

Intel and Microsoft are accelerating the adoption of a software-defined data center



Public Cloud

Intel® architecture

Microsoft Azure®

Azure® Virtual Machines



Private Cloud

Intel® architecture

Windows Server®

Microsoft® System Center

Microsoft SQL Server®



Provider-hosted Cloud

Intel® architecture

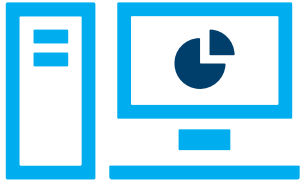
Windows Server®

Microsoft® System Center

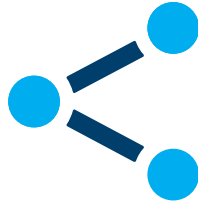
Microsoft SQL Server®

Providing the building blocks for high-efficiency data centers

4 pillars of the modern data center:



Compute



Network



Storage



Security

Compute

Resilient

Simplified
virtualization
upgrades

Rolling upgrades for
no downtime

Hot add/remove
NIC/Fixed Memory

Resilient to network,
storage, and compute
problems

New installment
options for **stability**
and agility

Microsoft Windows Server® 2016 optimized for the Intel® Xeon® processor E5 v4 family
Intel® Advanced Vector Extensions 2 support for improved performance

Networking



Simplified

Distributed data
center firewall with
enhanced security

Network controller for
centralized control of
network policies

Built in hyper-scale
load balancer from
Azure®

A core set of capabilities and SDN architecture directly from Azure® to the data center

Intel® Ethernet Converged Network Adapters for 10/40GbE
Intel® QuickAssist Technology & Intel® Virtualization Technology

Storage

Cost Effective

Hyper-converged with
Storage Spaces Direct

In-box synchronous
replication

Cluster-wide quality
of service

Full, enterprise-class tiered storage optimized for virtualization

Performance enhancements for SATA & NVMe* Intel® SSDs
Storage Spaces Direct, Intel® co-designed reference architecture

Security

Extended

Secure¹ privilege
access with Just In
Time and Just Enough
Administration

Protect identity
with Credential
Guard

Breach resistance technologies
for preventing common attacks
and locking down what can run
on servers (whitelist)

Improve threat
detection with
built-in eventing

Enhance virtualization
security with shielded
VMs

Hardware-assisted security to address emerging threats, control privileged access, and protect VMs

Hardened Intel® Trusted Platform Module shields VMs

Intel® AES-New Instructions, Intel® Secure Key, RSeed & Crypto Speedup

¹ No computer system can be absolutely secure.

Windows Server® 2016 & Intel® Xeon® processor-based servers

The cloud-ready operating system optimized on Intel® Xeon® processor-based servers & delivering Azure®-inspired innovation for the applications and infrastructure that power schools.

New layers of security

Privileged identity protection
Breach resistance
Secure¹ virtualization platform

Software-defined data center

Built-in SDDC capabilities
Affordable and enterprise ready
Azure-inspired infrastructure

Cloud-ready application platform

Traditional + cloud-native apps
Containers/Nano
Bring licenses to Azure

**Fully integrated with System Center* 2016
management systems**

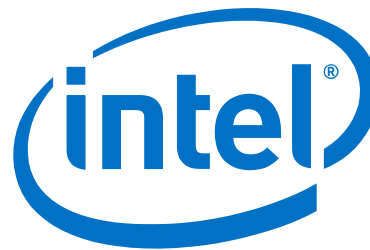
1 No computer system can be absolutely secure.



Empowering Education



Microsoft



microsoft.com/education

intel.com/education

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