Azure : Scalable Moodle Profile

LDC

YOUR CLOUD POWERHOUSE

Why should you care?

Why Moodle ?

- With 70+ million users worldwide ,Moodle is the most-widely used learning management system (LMS) by organizations of all shapes and sizes.

- Moodle LMS is a flexible, Feature-Rich open source, and free to download .

- Moodle is used by businesses, corporations, hospitals and online learning .

- Top Three Benefits of Moodle LMS?

    - Moodle is Open Source and Free.
    - Moodle is Supported by a Global Community (plugins).
    - Moodle is Configurable, Highly-Flexible and Feature-Rich.

Why should you care?

Why scalable Moodle

Moodle app is at risk

- Servers can't handle the unexpected requests on peak times.

Cost & complexity

- Full architected environment cost to meet your peak times will be extremely high.

Scalable Moodle

World-class infrastructure for world-class education

Decreasing Costs and operational investments by 50%

Provides More Consistent Course Delivery

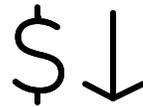IT staff will reduce the time spent on issue and incident management

Common Enterprise Challenges

Business continuity and data protection are critical issues for every organization

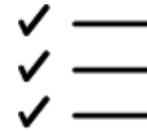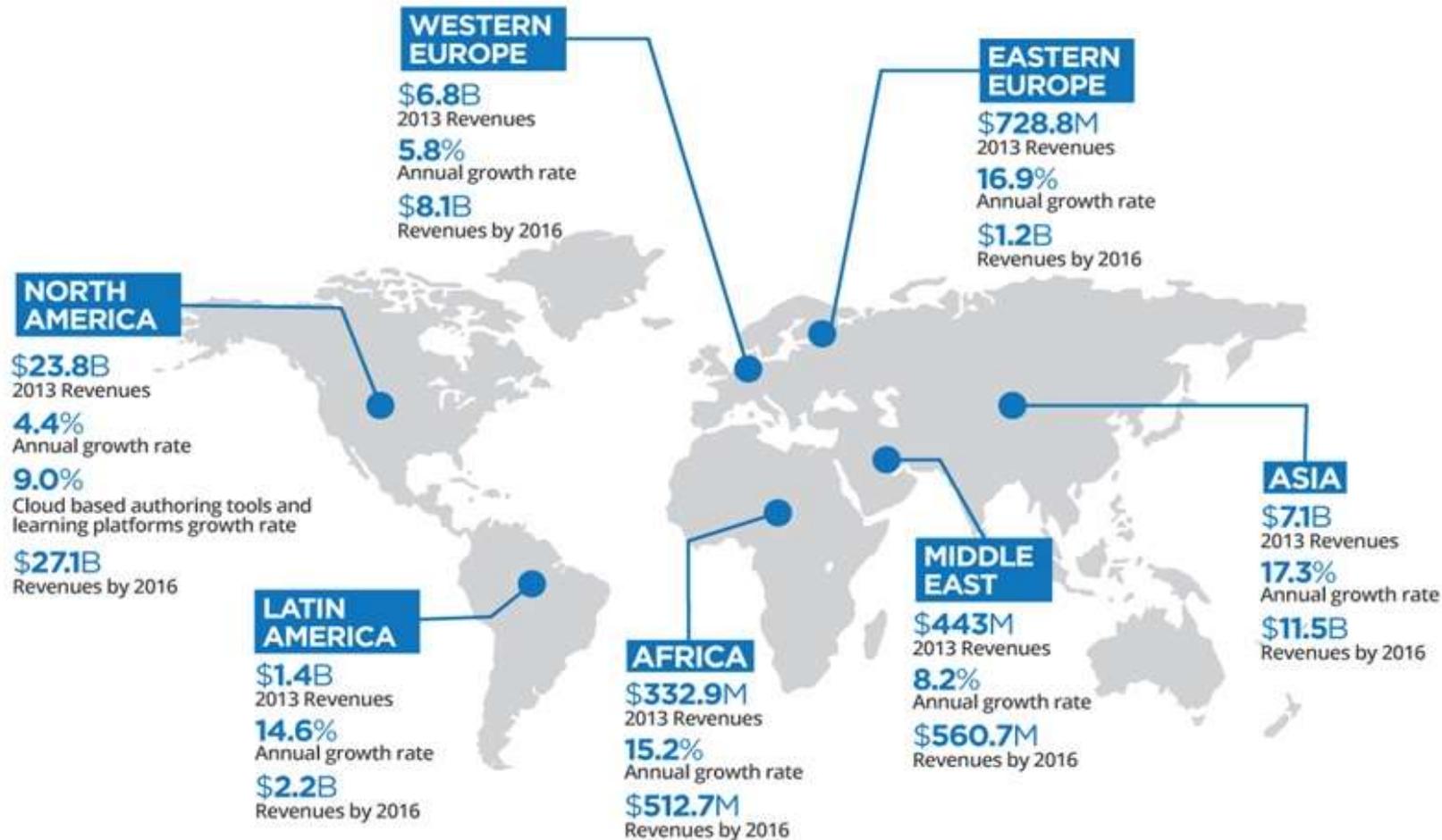| Limiting downtime	Reducing costs	Managing complexity	Ensuring compliance	Scaling protection
Downtime puts your organization's reputation, finance, and productivity at risk	The costs of maintaining secondary sites and infrastructure can be prohibitive	Managing complex environments while meeting RPO and RTO standards is often difficult for IT	Regulatory and compliance demands for data retention and protection may be taxing for your business	Protection beyond mission-critical apps and data is unrealistic for most businesses

E-Learning use in the Enterprise

WESTERN EUROPE
$6.8B
2013 Revenues
5.8%
Annual growth rate
$8.1B
Revenues by 2016

EASTERN EUROPE
$728.8M
2013 Revenues
16.9%
Annual growth rate
$1.2B
Revenues by 2016

NORTH AMERICA
$23.8B
2013 Revenues
4.4%
Annual growth rate
9.0%
Cloud based authoring tools and learning platforms growth rate
$27.1B
Revenues by 2016

LATIN AMERICA
$1.4B
2013 Revenues
14.6%
Annual growth rate
$2.2B
Revenues by 2016

AFRICA
$332.9M
2013 Revenues
15.2%
Annual growth rate
$512.7M
Revenues by 2016

MIDDLE EAST
$443M
2013 Revenues
8.2%
Annual growth rate
$560.7M
Revenues by 2016

ASIA
$7.1B
2013 Revenues
17.3%
Annual growth rate
$11.5B
Revenues by 2016

Maintaining the application consistency And performance using LDC scalable Moodle Solution will increase the learning productivity

Business challenge

E-Learning is my business

GROW MY BUSINESS USING E-Learning

How can I strategically leverage E-learning in my business?

MANAGE COMPLEXITY...

How can I handle the complexity in developing and deploying media work flow?

GAIN A COMPETITIVE ADVANTAGE...

How do I leverage media to optimize my operations?

Business challenge

E-Learning is my business

DISTRIBUTE & PROTECT CONTENT ...

How can I distribute my content widely but still protect and monetize my content?

Complexity Management...

Grants the ability to add new features, change configuration and fix bugs into production safely and quickly
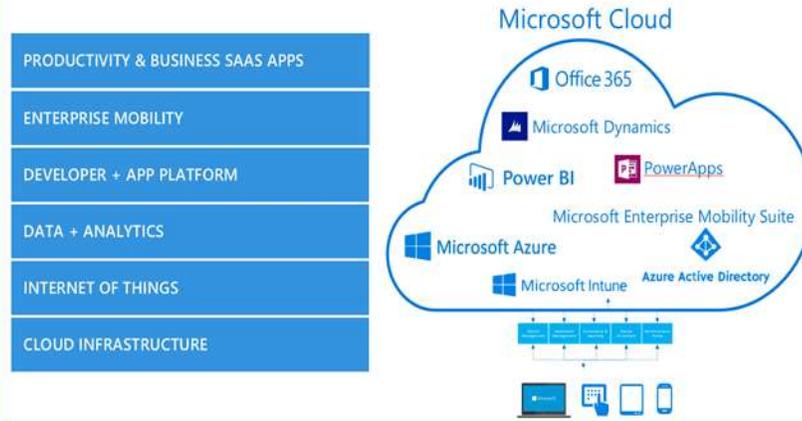
WHILE MANAGING COSTS ...

How do I manage cost as both audience sizes and content libraries grow?

WHY MICROSOFT AZURE

"**Microsoft is a secure, flexible and high-performance cloud platform integrating multiple tools and managed services. It provides a complete set of tools to build, deploy and manage enterprise, mobile and Web applications in the cloud .**

Integrated set of IaaS, PaaS, SaaS services

Microsoft Cloud

- PRODUCTIVITY & BUSINESS SAAS APPS
- ENTERPRISE MOBILITY
- DEVELOPER + APP PLATFORM
- DATA + ANALYTICS
- INTERNET OF THINGS
- CLOUD INFRASTRUCTURE

- Office 365
- Microsoft Dynamics
- Power BI
- PowerApps
- Microsoft Enterprise Mobility Suite
- Microsoft Azure
- Microsoft Intune
- Azure Active Directory

Recognized cloud leader

Summary of Major Vendor Emphasis

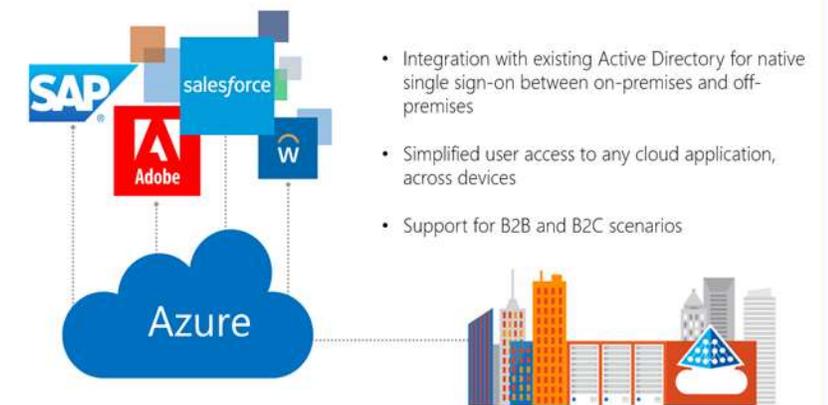|	Build Private Services	Deliver Services	Services Delivered*			Private Offerings	
			IaaS	PaaS	SaaS	Enabling Tech.	Packaged Cloud
Amazon						None	
salesforce.com						None	
Google						None	
Microsoft							
IBM							
VMware							
Oracle							
SAP						None	
HP							

Note: This is not an evaluation of capabilities, but rather of emphasis.

Significant ○ ○ ○ ○ None * The provider may offer public, community or virtual private services
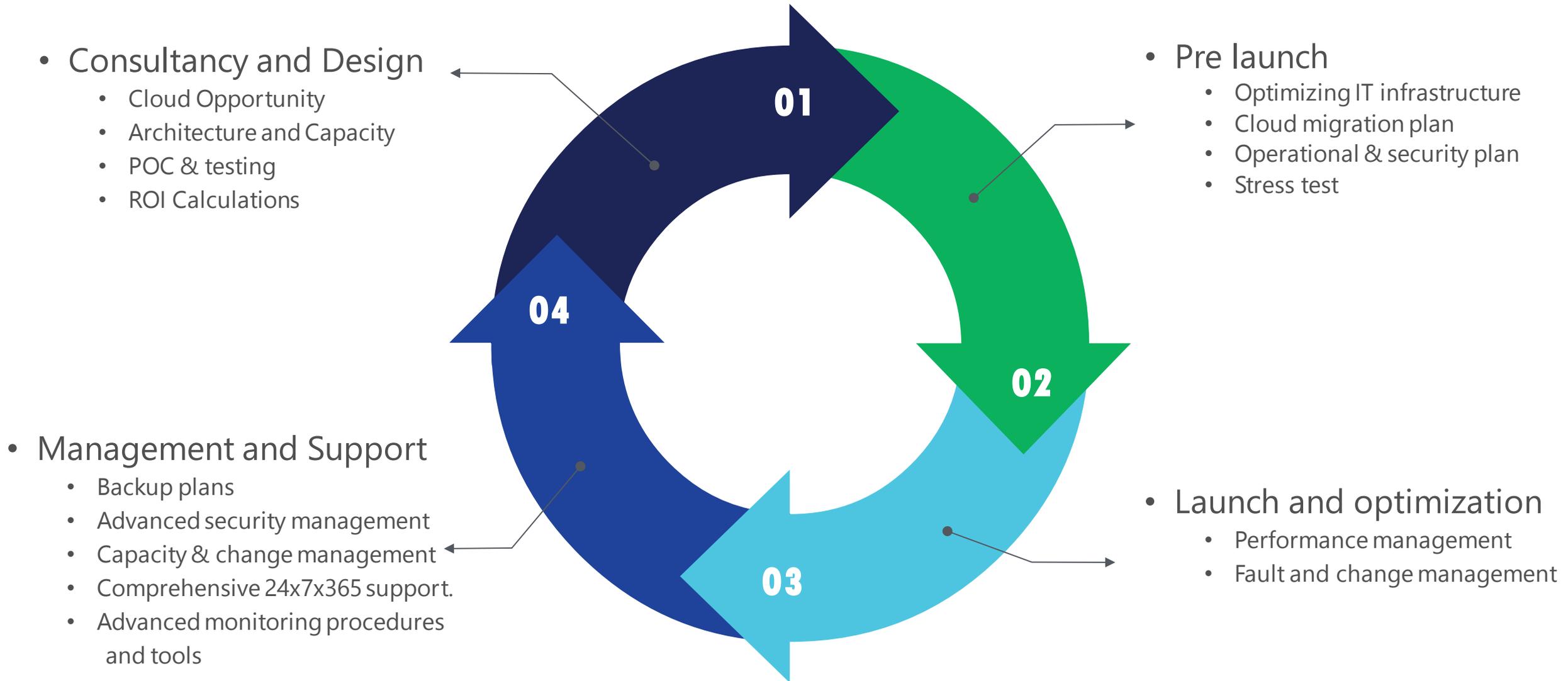
Gartner

Why clients choose Microsoft Cloud

1. **Trusted, global, hyper-scale** cloud provider to meet enterprise-grade needs
2. **Hybrid support** is architected into both the hyper-scale service and the cloud servers
3. **Higher-level services** to help you build your own digital capabilities
    1. DevOps productivity
    2. New IoT & enterprise app development
    3. Advanced analytics
    4. Machine learning & AI

Industry leaders are betting on Azure

SAP · salesforce · Adobe · W

Azure

- Integration with existing Active Directory for native single sign-on between on-premises and off-premises
- Simplified user access to any cloud application, across devices
- Support for B2B and B2C scenarios

WHY LDC : Your Cloud Journey Companion

- Consultancy and Design
  - Cloud Opportunity
  - Architecture and Capacity
  - POC & testing
  - ROI Calculations

- Pre launch
  - Optimizing IT infrastructure
  - Cloud migration plan
  - Operational & security plan
  - Stress test

- Management and Support
  - Backup plans
  - Advanced security management
  - Capacity & change management
  - Comprehensive 24x7x365 support.
  - Advanced monitoring procedures and tools

- Launch and optimization
  - Performance management
  - Fault and change management

01

02

03

04

LDC & Microsoft : Deliver Media Anywhere with unparalleled scale, speed, security and accuracy

LDC

- Excellent Azure infrastructure combined with LDC remarkable management and support

+

Microsoft

- Azure is an open and flexible cloud platform that lets you quickly build, deploy and manage applications

LDC provides a flexible file services layer for users and applications that grant the ability to change features, configuration, bug fixes and experiments into production safely and quickly .

On **Azure** and with **Link Datacenter** managed services, LDC successfully deploys a scalable architecture for running Moodle Learning Management System on top of Azure IaaS VMs .

With **Azure** you can confidently deploy hundreds of identical virtual machines in minutes. With easy updates at scale, focus more on what matters "your application" and less on the infrastructure

Use Cases

Scalable Moodle (E-Learning Platform)

- Better Meet the Needs of Geographically Diverse Employees

- ROI for eLearning can be 50%-60% > for traditional training.

- Training materials can be updated quickly and easily.

- Offer More Individualized Instruction.

- Use Scalable Moodle to build

  and empower them!

Scalable delivery

Deliver E-Learning solution to a large audience worldwide

→ Improve web performance and customer experience across devices and channels

→ Simplify workflow and deliver the highest quality media at scale

→ Reduce complexity and cost of delivering content

→ Directing the company's overall business strategy and overseeing its financial growth and prosperity

Success stories

Arab Republic Of Egypt
MINISTRY OF EDUCATION

Customer Pain

Customer uses 25 physical servers which increase the delivery cost , and yet had a lot of performance issues, Application goes down due to burst heavy traffic

Scalable Moodle solution Architected and implemented by LDC using the below

• **Azure Auto Scaling – Scale Set**

• **Flexible file services** "**Gluster**" for users and applications that can be easily scaled to adjust your workloads using Azure Scale Set

• **DevOps technologies** to overcome the Scale Set limitations by providing the ability to include new features, change configuration, fix bug into production safely and quickly in a sustainable way.

The Ministry is now able to host more frequent events (Exams), with a guaranteed 99.95% Uptime, concurrent users that might reach up to 5000, and around 70% cost reduction.

Scalable Moodle Practices

Widely used for online learning by universities, schools, governments, and corporations around the world

Integrating Moodle with Microsoft Office 365 (SSO, One Drive, Word, PowerPoint + Mix, …etc.)

Deliver highly available E-learning platforms to all workspaces .

Customer References

LET'S GET STARTED.