

Comparison of AEMaaS and AEM On-Prem in AWS

Adobe Experience Manager (AEM) offers two primary deployment models: AEM as a Cloud Service (AEMaaS) and AEM on-premises hosted on AWS.

Each model has distinct characteristics in areas such as deployment, scalability, maintenance, customization, and cost.

****Deployment and Infrastructure****

- **AEM as a Cloud Service (AEMaaS):**

- **Fully Managed Service:**** Adobe manages the entire infrastructure, including setup, maintenance, and scaling.
- **Cloud Provider:**** Primarily hosted on Microsoft Azure, with plans to expand to AWS in certain regions.

- **AEM On-Premises in AWS:**

- **Self-Managed Infrastructure:**** Your organization is responsible for deploying, configuring, and maintaining AEM instances on AWS infrastructure.
- **Cloud Flexibility:**** Offers the flexibility to choose AWS services and configurations tailored to your specific needs.

****Scalability and Performance****

- **AEMaaS:**

- **Auto-Scaling:**** Automatically scales resources to handle varying traffic loads, ensuring consistent performance without manual intervention.
- **High Availability:**** Designed for minimal downtime, providing robust performance even during peak usage.

- **AEM On-Premises in AWS:**

- **Manual Scaling:**** Scaling requires manual configuration and monitoring, which can be resource-intensive.
- **Custom Performance Tuning:**** Allows for tailored performance optimization based on specific organizational requirements.

****Maintenance and Upgrades****

- **AEMaaCS:**

- **Continuous Updates:**** Adobe provides automated, seamless updates, ensuring access to the latest features and security patches without downtime.
- **Reduced Operational Overhead:**** Eliminates the need for in-house teams to manage updates and maintenance tasks.

- **AEM On-Premises in AWS:**

- **Manual Upgrades:**** Your team is responsible for planning and executing updates, which can be time-consuming and may require scheduled downtime.
- **Full Control:**** Offers complete control over the upgrade schedule and implementation.

****Customization and Flexibility****

- **AEMaaCS:**

- **Standardized Environment:**** Emphasizes best practices with some limitations on deep customization to maintain system integrity.
- **Cloud Manager:**** Utilizes Adobe's Cloud Manager for code deployment and CI/CD pipelines, streamlining development workflows.

- **AEM On-Premises in AWS:**

- **Extensive Customization:**** Provides the flexibility to deeply customize AEM instances to meet unique business needs.
- **Choice of Tools:**** Allows integration with preferred CI/CD tools and deployment strategies.

****Cost Considerations****

- **AEMaaCS:**

- **Subscription-Based Pricing:**** Costs are based on usage metrics such as page views and API calls, which can be more predictable for budgeting.

- ****Lower Total Cost of Ownership:**** Reduces the need for significant infrastructure investments and dedicated maintenance staff.

- ****AEM On-Premises in AWS:****

- ****Variable Costs:**** Expenses include AWS infrastructure, licensing, and operational costs, which can fluctuate based on resource usage and scaling needs.

- ****Capital Expenditure:**** May require upfront investment in infrastructure and ongoing costs for system management.

****Security and Compliance****

- ****AEMaaCS:****

- ****Adobe-Managed Security:**** Benefit from Adobe's security protocols and compliance certifications, with regular updates to address vulnerabilities.

- ****Limited Direct Control:**** Organizations rely on Adobe's security measures without direct access to underlying infrastructure.

- ****AEM On-Premises in AWS:****

- ****Direct Security Management:**** Your organization has full control over security configurations, policies, and compliance adherence.

- ****Responsibility:**** Requires dedicated resources to monitor, update, and ensure the security of the AEM environment.

****Conclusion****

Choosing between AEM as a Cloud Service and AEM on-premises hosted in AWS depends on your organization's priorities:

- ****Opt for AEMaaCS if you seek:****

- A fully managed service with minimal operational overhead.
 - Automatic scaling and seamless updates.
 - A standardized environment with best practices.

- ****Choose AEM On-Premises in AWS if you require:****

- Full control over infrastructure and customization.

- Tailored performance tuning and scaling strategies.
- Direct management of security and compliance measures.

Evaluate your organization's technical capabilities, customization needs, budget constraints, and strategic goals to determine the most suitable deployment model.