



Java Platform-as-a-Service

As IT organizations prepare their applications and infrastructure for cloud deployment, they must deal with enormous complexity, such as new deployment architectures, management and monitoring of cloud resources, application lifecycle management, software support on clouds, licensing, security, scalability, and migrating existing applications to the cloud.

At the same time, application developers and IT managers must provision and configure infrastructure software stacks, in addition to maintaining deep technical knowledge of multiple software components to be able to manage complex virtualized deployment environments.

The complexity involved in deploying clouds and managing application infrastructure limits the actual return on investments and benefits associated with cloud computing.

Platform-as-a-Service Advantage

The Platform-as-a-Service (PaaS) layer allows organizations to deliver application Infrastructure-as-a-Service (IaaS) streamlining IT operations, simplifying application deployments and lowering the cost of IT operations - and in certain cases optimizing the number of software licenses required. More importantly, with PaaS, IT can provide a self-service, on-demand

development and deployment platform for developers to quickly deliver the applications needed to respond to rapidly changing business needs. PaaS decouples applications from the infrastructure, hence enabling developers to create applications agnostic of the underlying of the underlying application infrastructure platform.

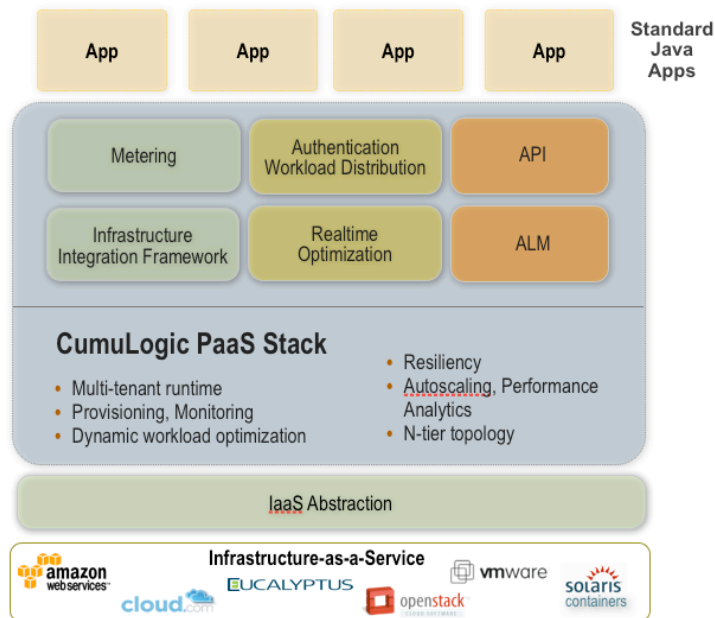
CumuloLogic Solution

CumuloLogic PaaS is a comprehensive end-to-end platform for private and public clouds, as well as virtualized environments. CumuloLogic enables organizations deploying virtualized environments or IaaS clouds to supplement their deployments with PaaS functionality. CumuloLogic's PaaS simplifies application deployment down to single click tasks, and provides all the necessary infrastructure services required to run large scale applications.

Developers have the flexibility to define the topology and bind to shared infrastructure services provided by the platform. The platform provides services such as messaging and SQL and NoSQL database services, which are integrated with application servers and load-balancers as needed. The Cloud Services Catalog provides a variety of fully-managed application infrastructure components to build a private PaaS. Custom components are also supported.

Highlights

- Comprehensive PaaS that enables enterprises to develop, deploy and manage Java and Spring applications in private, public and hybrid clouds.
- Provides all the necessary modules for autoscaling, user management, monitoring, and application lifecycle management.
- Supports leading open source stacks and middleware components from Red Hat, IBM, Apache, MySQL, and MongoDB. Application servers supported include: JBoss, Tomcat, IBM WebSphere, Jetty, and GlassFish
- Only PaaS that allows mix-and-match of application infrastructure components, and application deployment on multiple private and public clouds.
- Tightly integrated with Citrix-Cloud.com CloudStack, Eucalyptus, OpenStack and VMware clouds, plus Amazon EC2



James Gosling Creator of Java

“I’M ENTHUSIASTIC ABOUT CUMULOGIC’S PAAS CLOUD MANAGEMENT SOLUTION AS IT UTILIZES THE HIGHER LEVELS OF ABSTRACTION INHERENT IN THE PAAS MODEL TO REDUCE THE COMPLEXITY OF CLOUD MANAGEMENT, PROVIDES TARGETED FACILITIES FOR BOTH DEVELOPERS AND MANAGEMENT, AND ERASES THE DISTINCTIONS BETWEEN THE VARIOUS CLOUDS ENABLING TRANSPARENT INTEROPERABILITY.”

A self-service portal and rich set of Developer and Administration API allow application developers and IT administrators to quickly on-board and manage applications in the cloud. CumuLogic PaaS supports multiple target clouds enabling organizations to deploy different workloads on private or public clouds based on security, compliance or service level agreement (SLA) needs.

CumuLogic Advantages

CumuLogic PaaS is ideal for enterprises considering deploying hybrid cloud models and Cloud Providers alike looking to provide high value PaaS functionality to their end customers. Using CumuLogic solution, enterprises can:

- Build a scalable PaaS on on-premise private and public clouds and maintain a single application platform to reduce the cost and complexity of managing applications in clouds and virtualized environments
- Customize their PaaS by mixing and matching infrastructure components
- Leverage CumuLogic Cloud Service Catalog to receive automatic updates and new infrastructure software delivered to their private clouds or public cloud deployments
- Manage the complete application lifecycle from development to production

- Integrate with the Eclipse Integrated Development Environment (IDE) for rapid development and testing
- Run applications on private clouds ensuring data security and compliance

**THE IMPLEMENTATION OF
JAVA PAAS CAN LOWER
CAPEX BY UP TO 30% AND
OPEX UP TO 35%.**

Cloud Services Catalog

CumuLogic maintains a rich catalog of infrastructure services which organizations can leverage to acquire new infrastructure software and updates delivered and registered to their repositories in private clouds. This eliminates the need for organizations to build their own service images which can be a time consuming effort. Custom platform services can be added to CumuLogic PaaS by building service images from base CumuLogic images and declaring image metadata defined by CumuLogic templates.

Use Cases

Application Consolidation & Cloud Migration for Enterprises

Enterprises can use CumuLogic PaaS to consolidate siloed applications running on different servers and

infrastructure stacks to a single standardized platform across the enterprise. This can help save over 30% of IT operations cost.

Development/QA/Test/Lab Environments for Enterprises & ISVs

CumuLogic PaaS improves developer productivity and time-to-market by eliminating the need for developers to manage the underlying infrastructure.

SaaS Applications for ISVs

ISVs seeking to deliver applications via a cloud can leverage CumuLogic PaaS for private or public clouds to provision and manage their applications end-to-end. CumuLogic can save ISVs over 50% of the cost of managing applications on clouds.

Cloud Providers

Cloud Providers can leverage CumuLogic PaaS technology to offer customized application Infrastructure-as-a-Service to their ISV and enterprise customers.

Getting Started

CumuLogic PaaS is available as beta on Amazon EC2, plus Citrix-Cloud.com, Eucalyptus, and VMware private clouds. Please sign up at CumuLogic.com, or for more information, please contact us at info@cumulogic.com.