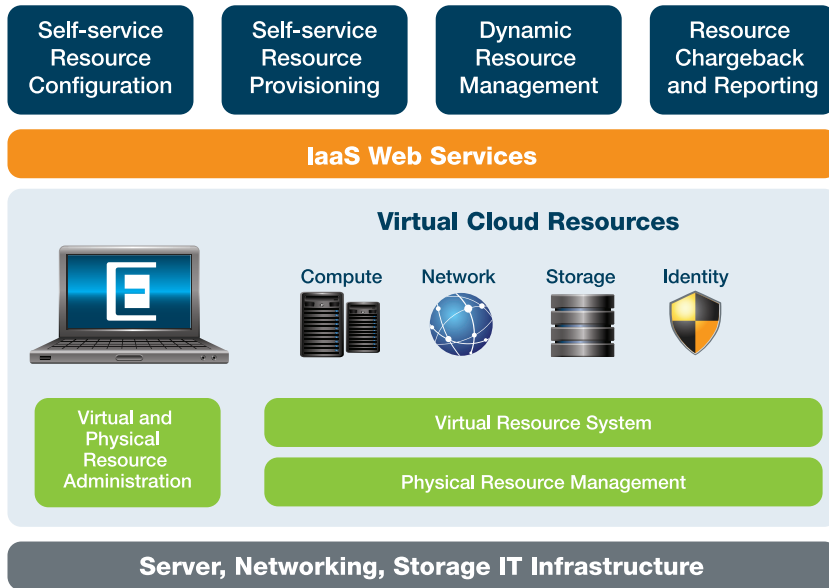


Eucalyptus 3

On-premise and Hybrid Cloud Infrastructure as a Service



Eucalyptus is the world's most widely deployed software platform for on-premise (private) Infrastructure as a Service (IaaS) clouds. It uses existing infrastructure to create a scalable, secure web services layer that abstracts compute, network and storage to offer IaaS. Eucalyptus takes advantage of modern infrastructure virtualization software to create elastic pools that can be dynamically scaled up or down depending on application workloads. Eucalyptus web services are uniquely designed for hybrid clouds using the industry standard Amazon Web Services™ (AWS) API. The benefits are highly efficient scalability, increased trust and control for IT as a Service.

High Availability IaaS

Eucalyptus 3 can now be configured as a high-availability (HA) deployment to maximize the reliability of the enterprise IaaS cloud using automatic failover and fallback mechanisms. In a Eucalyptus HA deployment, each Eucalyptus cloud component is replicated and deployed as an active-passive service. This includes the Eucalyptus service components such as Cloud Controller, Cluster Controller, Walrus, VMware Broker and Storage Controller. In the event of a failure of an active service component that manages dynamic virtual resource pools, the passive service component will take over the management control seamlessly to allow continuous operation.

Flexibility in Managing Multiple Machine Image Formats

Organizations can run multiple versions of Windows and Linux virtual machine images on IaaS clouds. You can build a library of Eucalyptus Machine Images (EMIs) with application metadata that are decoupled from infrastructure details to allow them to run on Eucalyptus clouds. Amazon Machine Images are also compatible with Eucalyptus clouds. VMware Images and vApps can be converted to run on Eucalyptus clouds, and on AWS and Amazon-compatible public clouds.

Heterogeneous Hypervisor Management

You can build and manage mixed hypervisor cluster environments in an IaaS cloud, and manage existing vSphere™, ESX™, ESXi™, KVM and XEN virtual environments as AWS-compatible Eucalyptus hybrid clouds. A Eucalyptus-compatible self-service management portal can now manage XEN, KVM and VMware virtual environments from a single pane of glass, leading to much greater efficiency and cost reduction.

Get a **FREE TRIAL** of **Eucalyptus 3**, please visit: www.eucalyptus.com/products/eee

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KEY BENEFITS

- Build and manage self-service heterogeneous on-premise IaaS clouds using either existing infrastructure or dedicated compute, network and storage resources
- Support high-availability IaaS for the most demanding cloud deployments
- Gain precise control of private cloud resources via enterprise-ready user and group identity management along with resource quotas
- Dynamic resource pooling with built-in elasticity allows organizations to scale up and down virtual compute, network and storage resources
- Robust storage integration enables IT to easily connect and manage existing storage systems from within Eucalyptus clouds
- Build hybrid clouds between on-premise Eucalyptus clouds and AWS and AWS-compatible public clouds
- Run Eucalyptus or Amazon Machine Images as virtual cloud instances on Eucalyptus and AWS-compatible clouds
- Leverage vibrant AWS ecosystem and management tools to manage Eucalyptus IaaS clouds

Robust SAN Integration

Enable Eucalyptus clouds to leverage high-performance SANs. Eucalyptus 3 includes support for SAN devices that can be easily configured to take advantage of storage arrays to improve performance and reliability, dynamic allocation and de-allocation for storage elasticity. Eucalyptus Machine Images can now be backed by Amazon EBS-like persistent storage volumes, improving the performance of image launch time and enabling fully-persistent virtual machine instances. Version 3 also improves support for direct-attached storage (DAS) with the ability to directly interface with JBOD storage configurations.

Enterprise-Ready Identity Management

User identity management has been tremendously enhanced in Eucalyptus 3 with capabilities to control virtual resource pools using fine-grained Role-Based Access Control mechanisms for each resource pool. Eucalyptus user identity management can be integrated with existing Microsoft Active Directory or LDAP systems. Eucalyptus identity management interfaces are compatible with the Amazon IAM API.

Flexible Accounting, Chargeback and Quota Management

Define and allocate resource quotas for your users and groups with Eucalyptus 3's quota management features. Control resource allocation across clusters, defined by users and groups.

Cloud Usage Pattern Analysis

Leverage Eucalyptus 3 resource accounting to analyze your cloud usage patterns. Compute and storage usage data are available in various formats for visualization, reporting and analysis by business systems for both enterprises and for integration with chargeback and billing platforms.

Resource Administration and Console

The Eucalyptus Dashboard provides cloud administrators with a graphical console for performing several cloud management tasks, including all virtual and physical resource management and virtual cloud resource configuration, provisioning, de-provisioning and reporting.

Support for Self-service IaaS Users

Eucalyptus supports multiple approaches for self-service IaaS users. The role-based Eucalyptus Dashboard provides IaaS users safe access to requesting and reporting on virtual cloud resources and images, and Eucalyptus partners provide integrated self-service portals and cloud service management to support Software as a Service (SaaS), Platform as a Service (PaaS) and IaaS users. The Eucalyptus 3 platform provides robust collection of web services for developers to build custom self-service interfaces.

About Eucalyptus Systems

Eucalyptus Systems provides IT organizations in enterprises, government agencies, web and mobile businesses, and industry partners the most widely deployed software platform for on-premise Infrastructure as a Service (IaaS) clouds. To date, over 25,000 Eucalyptus clouds have been started all over the world, including more than 20 percent of Fortune 100 companies. Eucalyptus is specifically designed for enterprise-class use, and the software platform is uniquely suited for hybrid clouds. Built as an open source product, Eucalyptus supports the industry-standard cloud API, Amazon Web Services, as well as all major virtualization platforms. The company has an active and growing ecosystem of customers, partners, developers and researchers that benefit from Eucalyptus' open, fast and standards-compliant path to cloud computing. For more information about Eucalyptus, please visit www.eucalyptus.com.

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KEY FEATURES

- Amazon AWS Interface Compatibility
- High-Availability IaaS Service
- Flexible Clustering
- Network Management, Security Groups, Traffic Isolation
- Elasticity and Self-Service Capability
- Bucket-Based Storage Abstraction (S3-Compatible)
- Block-Based Storage Abstraction (EBS-Compatible)
- Xen and KVM Hypervisor Support
- Microsoft Windows Guest Support
- Quota Management and Accounting
- User Group and Role-Based Access Management
- VMware Hypervisor Support*
- Virtual-to-Virtual Image Conversion for VMware*
- Robust SAN Integration*

**Not available in Eucalyptus Open Source*

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