

NICE CloudFrame

Your Gateway to the Cloud

Cloud Control for Administrators and End Users

CloudFrame is the **Self-Service Provisioning Portal** solution from **NICE**, that rapidly enables multi-tenant Software-as-a-Service (SaaS) applications and infrastructures to be built and delivered through a Public or Private Cloud.

CloudFrame offers an application framework for Cloud environments, delivering the Platform-as-a-Service (PaaS) layer of the Cloud offering used by:

- **Service Providers (SP)** delivering public and hybrid clouds
- **Independent Software Vendors (ISV)** building SaaS applications
- **Companies and Institutions** building a private cloud



CloudFrame is integrated with leading cloud infrastructure provisioning technologies and is open for adapting to the specific needs of the infrastructure provider. It can easily be branded and supports latest Web 2.0 functionality for improved user experience.

The **CloudFrame** framework provides a flexible, modular and expandable environment to plugin customer specific infrastructure and authentication schemas including integration of existing authentication databases. Via the Web Services API **CloudFrame** services can easily be integrated into workflows.

CloudFrame Solution highlights

Secure, authenticated, multi-tenant Cloud Security is a critical issue to deploying a Cloud solution - your customers are depending on every transaction, every piece of data, and every connection to be secure.

On-Demand, Self-Service IT

One of the main tenants of Cloud is to provide the users with a self-service, empowered working environment. **CloudFrame** provides you with the self-service environment, out-of-the-box or configurable to meet your unique market.

Scalable and Elastic

Users have access to provisioning and can scale up and down, within constraints. **CloudFrame** is integrated to one or many Cloud IaaS offerings, including Adaptive Computing, Amazon EC2, Eucalyptus, HP, OpenNebula, Platform, Univa, VMWare vCloud.

Measured Service & Billing

Pulls accounting and resource usage statistics, generating user and admin level reports. **CloudFrame** integrates diverse billing algorithms and mechanisms for payment/finance (credit card, PayPal, or in-house).

Powered by EnginFrame

The **CloudFrame** solution is powered, at its core, by EnginFrame, the trusted Portal and application framework product from NICE; powering over 100 production customers including many Fortune 100 companies, institutions and ISV's.

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Template Catalogs

CloudFrame enables the administrators to configure available templates in catalogs with a set of features like:

- Physical/Virtual nodes
- Operating systems
- Number of CPUs/Cores, Disks and Memory
- Target storage
- Installed applications

Virtual machines can be grouped into sets of one or more servers. Templates are assigned to user and user groups.

Instances

CloudFrame offers management of the full life-cycle of instances including

- Deployment
- Powering On/Off
- Suspending
- Snapshot creation
- Access to the console of running instances

Integration with IaaS Products

CloudFrame implements the vCloud quasi-standard with additional extension covering instances management via NICE CloudML mark up language.

The integration of CloudFrame with different commercial and open source Cloud IaaS offerings gives the infrastructure provider full flexibility to select the most suitable product to manage his infrastructure.

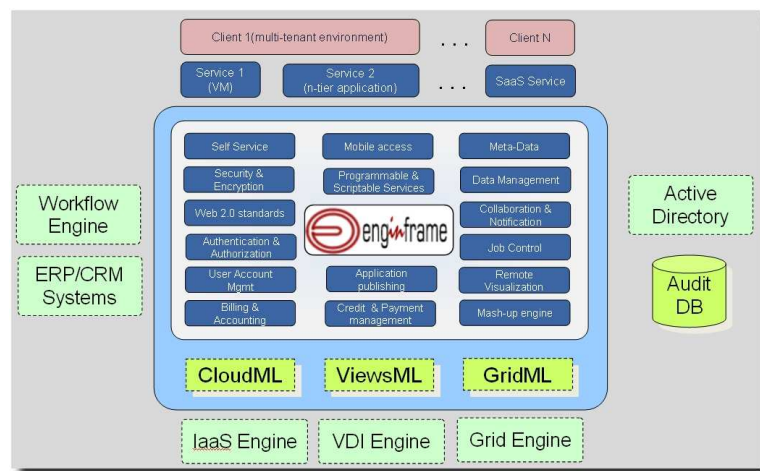
List of Instances

Name	Status	Owner	Memory	Disk	CPUs	OS	Description
Lab DHCP server	poweredOff	andrea	2 GB	10 GB	1	Red Hat Enterprise Linux 5 64	
Lab DHCP server_2010-01-05_14	suspended	andrea	2 GB	10 GB	1	Red Hat Enterprise Linux 5 64	
LAMP farm for e-Commerce site	poweredOn	andrea	8 GB	1024 GB	4	Red Hat Enterprise Linux 5 64	
LAMP for PR Project	poweredOff	andrea	8 GB	1024 GB	4	Red Hat Enterprise Linux 5 64	
New EF lab	poweredOff	andrea	8 GB	1024 GB	4	Red Hat	Power On
salvo test	poweredOn	xmauri	8 GB	1024 GB	4	Red Hat	Snapshot
Test LAMP	poweredOff	andrea	8 GB	1024 GB	4	Red Hat	Undeploy
xsalvo-SLES10-64bit	poweredOff	xsalvo	2 GB	10 GB	4	SUSE Linux Enterprise Server	
xsalvo-SLES10-64bit_2010-01-05	poweredOff	xsalvo	2 GB	10 GB	1	SUSE Linux Enterprise Server	

Multi-tenant Environment

CloudFrame supports multi-tenant hierarchies including different roles on the levels of:

- Infrastructure provider
- Corporation
- End user



Billing, Reporting and Auditing

CloudFrame is integrated with different billing strategies and offers an integrated charting engine for reporting. The audit trail for functions like authentication, template management, virtual machine management, ... supports monitoring all activities in the Cloud portal.

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