



CLASS

Conference 2012

Cloud Assisted Services

Cloud Control Panel Implementation on CA AppLogic platform

Ivana Vujović-Lučić
Development Team Leader
Eunet d.o.o

CA AppLogic platform

Solution for cloud computing environment



- Turnkey cloud platform
 - fast, efficient delivery of business services via a SaaS-based mode
 - Hardware and software components virtualized and accessible via catalog
- Easy method of remotely deploying and managing applications at branch locations
- Automatic scaling features
- Ability to quickly and easily replicate similar applications or multiple instances of an application
- Lower hardware costs by using commodity x86 servers, common switches and other hardware

Who's it for?

Use the CCP application potential in your business process



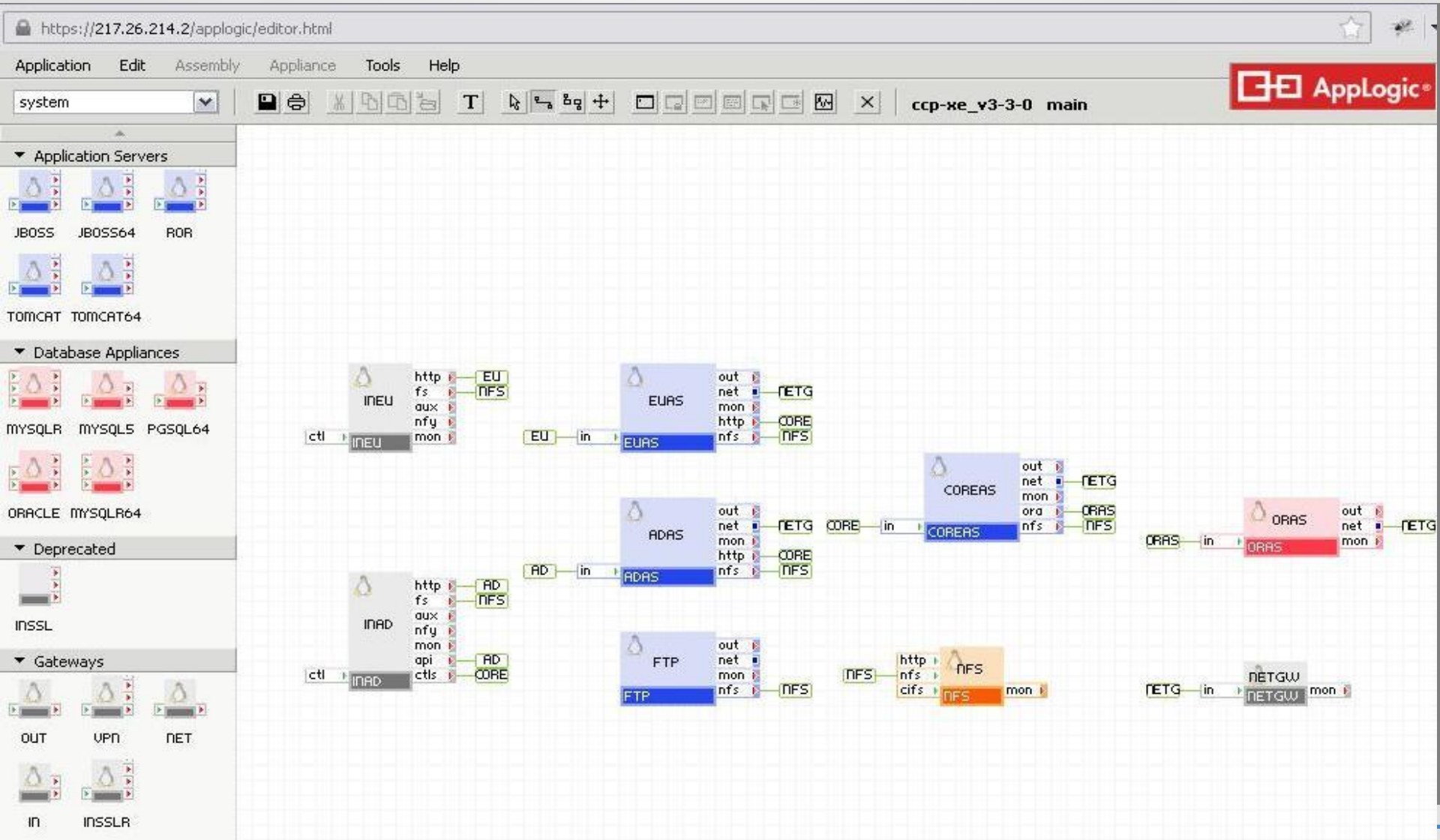
- **The Enterprise**
 - Introduce greater agility & flexibility to your development, provisioning & management processes
- **Service Providers**
 - Offer, Control & Meter, cloud servers, cloud applications and enterprise-class private clouds
- **SaaS Vendors**
 - Central control of Service Delivery including: development, infrastructure, deployment & multi-instance management

CCP application design

- The CCP is a multi-module N-tier CentOS / Apache / PHP / Oracle application that acts as a middle layer between various end-users and the native CA AppLogic Cloud platform.
- Deploys as any other AppLogic application
- One CCP instance can control multiple private cloud instances on different geographical locations



Technology and Design of the CCP application



About CCP

Key software features








- Enhance the Service Design & Management capabilities
- End-User control
- Ordering automation
- Resource Metering
- API for integration with external business software
- Embedding external custom content
- Customizable visual interface, CSS, images and localization

Automated provisioning

- Distributing the workload by enabling end-user capabilities
- Enables automatic provisioning from templates that are created for CA AppLogic

CLOUD SERVER ORDER FORM

Please select any additional options you require and proceed to the Next Step where you can choose CPU, RAM and Storage values

OPERATING SYSTEM	SERVER TYPE	OPTIONS	
 Linux	 OS Only	<input type="radio"/> Firewall Enabled	NEXT STEP > START OVER
 Linux 64bit	 Web Server	<input checked="" type="radio"/> Load Balancing	
 Windows 2003	 Web & Database Server		
 Windows 2008			

Automated provisioning

Customize you resources



Firewall Load Balanced LAMP

Firewall-enabled Load Balanced LAMP. Centos 5.X based server with load balancer and two Apache servers, with separated mysql server, with SSH and FTP access from the Internet.

£
224.40

Excluding VAT where applicable

Server Resources

Web Content

CPU	MIN	<input type="range"/>	MAX	1.5
RAM (MB)	MIN	<input type="range"/>	MAX	2048
Web Disk (GB)	MIN	<input type="range"/>	MAX	10G

MySQL Database

CPU	MIN	<input type="range"/>	MAX	0.5
RAM (MB)	MIN	<input type="range"/>	MAX	512M
Db Disk (GB)	MIN	<input type="range"/>	MAX	10G

Web Server 1

CPU	MIN	<input type="range"/>	MAX	2
RAM (MB)	MIN	<input type="range"/>	MAX	1536

Web Server 2

CPU	MIN	<input type="range"/>	MAX	0.75
RAM (MB)	MIN	<input type="range"/>	MAX	1024

Server Parameters

Cloud Server Name (End-User)

Cloud Server Description

Login

Username

Password

Customer Details

First Name Address

CCP End User options

Managing, Configuring your applications

Dashboard

The screenshot displays the Cloud Control Panel (CCP) dashboard. At the top, there is a navigation bar with a gear icon and the text "CLOUD CONTROL PANEL". The "dns|europe" logo is in the top right corner. Below the navigation bar, there are tabs for "Dashboard", "Job Console", "Account", and "Order New Cloud Server". A login status message indicates the user is logged in as "eunet" (switched as user "zdravko") on 18/10/2012 at 14:47. The main navigation area includes "Help", "Log Out", and "eunet's Home Page" buttons.

Dashboard

Welcome! Here is overview of your configured Virtual Cloud Servers. Click "details" button for more info and Cloud server options

Your Cloud Servers

Server Name	Status	Actions
VDS_CentOS54_r1_ccp_eval	running	Edit Description, Settings, Delete, Change Resources, Resize Volumes, Graphs & Billing, Stop, Reboot
FTP server	running	Edit Description, Settings, Delete, Change Resources, Resize Volumes, Graphs & Billing, Stop, Reboot

Additional dashboard elements include a "Page Help" button, an "Order New Cloud Server" section with a "Start here to order new Cloud Server" message and an "Order New Cloud Server" button, and a "Help & Support" section with "Control Panel Help" and "Support" buttons.

CCP End-User options

Property settings

- Added usability and comfort to end-users
- CCP Admin controls level of allowed customization
- CCP Metadata in action

Cloud server Settings

FTP server

Primary IP *	217.26.218.176
Hostname *	<input type="text" value="changeme"/>
Primary DNS *	<input type="text" value="217.26.218.161"/>
Secondary DNS	<input type="text" value="62.204.39.56"/> Reset to Default
Root password *	<input type="password" value="....."/>
Username *	admin
Password *	<input type="password" value="....."/>
Secondary IP address	<input type="text"/> <input type="button" value="v"/>
<input type="button" value="Save Changes"/> <input type="button" value="Cancel"/>	

Caution: Changing any of the above values will result in a full application restart.

CCP End-User options

Changing Cloud App resources

- On-demand resource control

Change Resources

Component list in CWL_app1

Component Name	Resources												
ESLAPP1 >													
ESLAPP2 >													
ESLCP1 >	<table border="1"><thead><tr><th></th><th>Min</th><th>Current</th><th>Max</th></tr></thead><tbody><tr><td>Cpu</td><td>0.25</td><td>1</td><td>4</td></tr><tr><td>Mem</td><td>768M</td><td>1.5G</td><td>4G</td></tr></tbody></table>		Min	Current	Max	Cpu	0.25	1	4	Mem	768M	1.5G	4G
	Min	Current	Max										
Cpu	0.25	1	4										
Mem	768M	1.5G	4G										
ESLDB1 >													
ESLDB2 >													
Nagios appliance >													
VPN appliance >													

Save & Restart Component

Save & Restart App Cancel

Admin CCP for Cloud Service designers

- Enables the Cloud Service Designer to define exactly how a cloud service, based on any AppLogic template, is presented to the end-user.
- Control exactly how service is ordered, deployed, configured, managed, consumed and metered – automatically!
- System Management for orders, user accounts, emails, parameters and constants
- Job Monitoring console with history
- IP pools, Subnets and Vlans
- Embedding external content via Snippets

Admin CCP

Managing private clouds

Private Cloud List

EUnetGrid

- Servers
- Constants
- Get Cloud server IPs
- Parameters

Description	EUnet Grid 2.9.9 SC
IP Address	217.26.213.254
Private Cloud name	EUnetProd1
Version	2.9.9
Status	ACTIVE

Toggle Details

Edit Delete

TNRGrid2

- Servers
- Constants
- Get Cloud server IPs
- Parameters

Description	Telenor Grid 3.0.30
IP Address	94.127.2.254
Private Cloud name	ProdTNR2
Version	3.0.30
Status	ACTIVE

Toggle Details

Edit Delete

Page Help

See:

- [Adding Private Clouds to the CCP](#)
- [Managing Private Clouds](#)
- [Deleting a Private Cloud](#)
(CCP Admin Guide)



- Private micro-cloud solutions for independent software vendors
- AppLogic Mμ private microcloud offers the most affordable entry-level, preinstalled, fully-supported AppLogic environment
- Supermicro®'s 2U Intel-based rack server
- Cloud Control Panel included 😊
- Training, Education and Support

Thank You

Ivana Vujović-Lučić
Eunet d.o.o

Ivanav@eunet.co.rs
www.eunehosting.com