

Cloud Control Panel (CCP)

for CA AppLogic® Private Clouds

Product brief: November 2011

Powered by
 CA AppLogic®

and
 ORACLE®

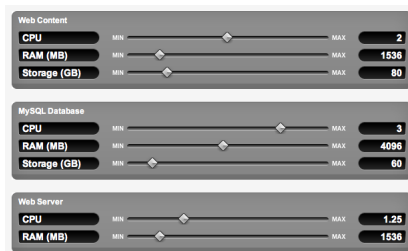
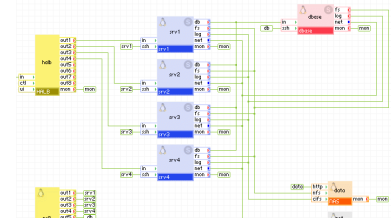
Enhance the Service Delivery Capabilities of your CA AppLogic infrastructure with our Cloud Control Panel (CCP) application.

Building and managing cloud-based infrastructure and applications is something that CA AppLogic excels at. Now, with our CCP app, any AppLogic deployment can benefit from extended Service Delivery capabilities with **automated provisioning, end-user control portal & application resource metering.**

The CCP allows you to adopt a “Self-Service” approach towards deploying & managing IT resources on AppLogic. This provides additional cost-savings through automated provisioning and opens up new revenue-generation opportunities by simplifying the complex process of creating services from applications.

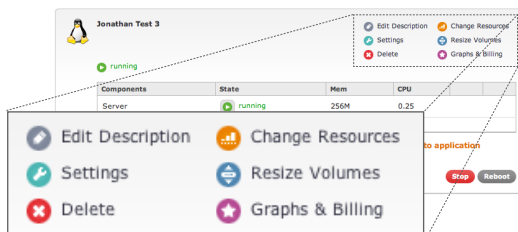
Automated provisioning: distributing the workload by enabling the end-user

1. Users choose from a selection of template-based applications, from simple Cloud Servers to more complex application infrastructures. Any template prepared for AppLogic can be deployed from the CCP.



2. Users can select specific CPU, RAM & Storage resources for any components which the CCP Admin has defined as ‘user-controllable’. The CCP Admin can also define minimums, maximums & ratios for each resource.

3. Manage multiple AppLogic Private Clouds from one central CCP installation allowing Users to choose where on your extended infrastructure to automatically deploy their Cloud Apps, either internally or globally.



4. Simple web-based management interface for end-user control over their own Cloud applications: SCALE individual component resources on-demand, STOP applications to reduce resource consumption and LAUNCH new instances when you need them.

The changing role of IT: are you becoming a Cloud Service Provider?

Remember when IT infrastructure roles were clearly defined? It used to be, if you hosted infrastructure and services externally then you were a Service Provider but if you managed infrastructure in-house you were the IT Team. New cloud-hosting platforms and deployment models are blurring the distinctions even further than ASP & SaaS models have done until now.

The CCP has been designed for deployment by **Service Providers, Enterprise IT & SaaS Vendors** to compliment the CA AppLogic Private Cloud platform. Whether your delivering Public, Private or Hybrid Cloud services, either externally or within the Enterprise, our CCP app provides the Service Delivery capability above your AppLogic applications and infrastructure.

The Enterprise

- Automatic deployment of internal or external Private Cloud-based IT resources
- Re-distribute IT management workload
- Dev Servers, complex n-tier templates, pre-packed apps
- Account for resource consumption Enterprise-wide
- Host & manage multiple services on one platform
- **Introduce greater Agility & Flexibility to your development, provisioning & management processes**

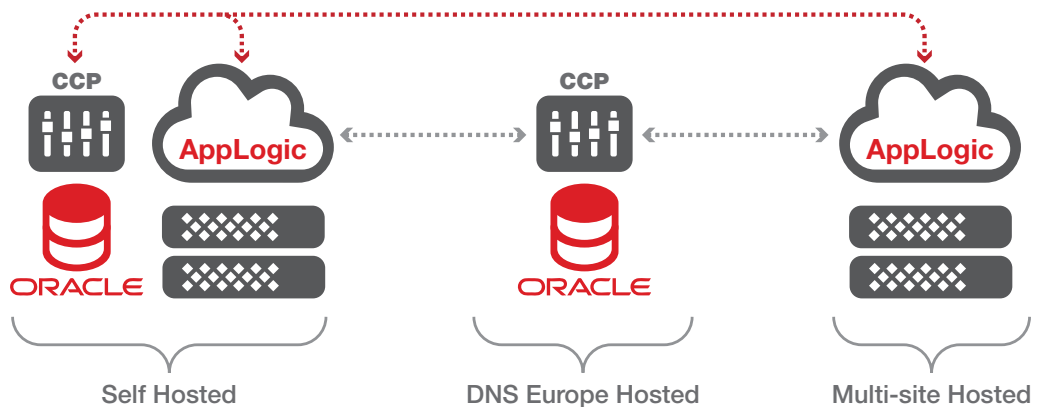
Service Providers

- Jump-start your own Cloud Services offering on low-cost commodity hardware
- Automated service deployment from templates
- Provide on-demand resource control to your Customers
- Customisable cloud server templates
- Create your own server / app / complex service templates
- **Offer, Control & Meter, cloud servers, cloud applications and enterprise-class private clouds**

SaaS Vendors

- Build & deploy your SaaS apps on a single cloud-based platform
- Accelerated on-boarding with automated ordering and provisioning
- Granular resource metering
- Configurable multi-role privileges: control customer capabilities
- Manage service updates centrally
- Rapid time to market for new services
- **Central control of Service Delivery including: development, infrastructure, deployment & multi-instance management**

CCP deployment scenarios



Key product features

AppLogic Infrastructure management

- Manage multiple Private Clouds in multiple locations from one CCP
- Pre-configure Cloud-wide parameter Constants
- Manage IP Pools for AppLogic infrastructure
- View & manipulate AppLogic-level application & template parameters
- Monitor Job Console and view job history

Platform

- Multi-module N-tier LAMP/Oracle architecture
- Simple Ajax web user interface
- Eval version built as self-contained AppLogic application with Oracle XE appliance
- Live deployment options for on-site, multi-site or DNS Europe hosted CCP service
- Compatible with AppLogic versions 2.4.x and later
- Multi-lingual Metadata capabilities

Admin features

- Import any AppLogic templates
- Use included free templates
- Configure User roles and permissions
- Set resource ratio limitations (RAM, CPU, Storage)
- Use Metadata to control how app data is presented to Users
- Use Metadata to control which app parameters Users can see and/or change
- User accounts and order management
- Monitor Job Console and view job history
- View & Export Cloud app resource usage reports

User features

- Automatically deploy cloud apps from templates in minutes
- Control, resize, stop, restart and manage cloud apps
- Monitor Job Console and view job history

Metadata, IP Pools & Constants

To enhance the automation and customisation capabilities of the CCP, Admin users are able to manage the way in which data is presented to the end user (Metadata), IP assignments for Cloud Apps (IP Pools) and inserting common parameter values for multiple Cloud Apps (Constants).

Metadata

Metadata allows you to customise the presentation of application properties to the end user as well as defining access rights to individual properties.

Each application property, component or volume can be assigned a more user-friendly alternative for use by the CCP. For instance the “main.dbase” component of an application may be re-labeled as “MySQL Database” or the “primary_ip” property may be labeled “Primary IP” in English, or even another language if required.

Metadata also allows the Admin user to define how user input for properties is validated when entering configuration values.

For any Cloud App property, Admin can define if it is Visible or Locked for end-Users. So a property such as “Primary DNS” may be visible but locked i.e. read-only.

Admin may also define a specific Component or Volume as Invisible or Locked to end-Users. For example, in the case of a Load-Balanced LAMP Cloud Server with Firewall, the end-user might be able to view & edit the properties of certain components such as web server, database server and firewall.

However, you may wish to ‘hide’ certain components such as load-balancers, SLA and monitoring appliances so Users cannot see or adjust their ‘fixed’ properties.

IP Pools

IP addresses for newly-provisioned Cloud Apps are managed by the CCP from an IP Pool assigned to your Private Cloud. The CCP will keep track of IP addresses assigned to live Cloud Apps and will return any unused IPs to the Pool when released from a Cloud App.

The CCP also allows Admin users to view reports on IP Pool usage, history and current assignments.

Constants

The CCP uses ‘Constants’ to define properties that are automatically assigned to a Cloud App during automatic provisioning. It also allows administrators to create their own Custom Constants.

Examples of common Constants include: Time zone, Default password, Default username, Primary DNS, Gateway, etc.

Any number of Constants can be defined for a Private Cloud.

CCP App architecture

The CCP is a multi-module N-tier CentOS / Apache / PHP / Oracle application that acts as a middle layer between end-users (administrators and customers) and the native CA AppLogic Cloud platform.

The CCP architecture follows a multi-component design principal with the following discrete components:

- Application Server (xml-rpc server)
- Admin control panel
- End User control panel
- Queuer (for managing multiple jobs)
- Resource Collector
- Usage stats viewer/exporter

Powered by Oracle

The CCP Eval version utilizes an Oracle XE appliance, created by DNS Europe and resides within the CCP application and is 100% AppLogic-based.

The Oracle Database 10g Express Edition (XE) has a built-in database size limit of 4GB.

Restrictions on use of the free CCP Eval version

The free CCP Eval version is provided with a 30 day license and can only be used to manage one CA AppLogic Private Cloud (or Grid).

The CCP Eval version may only be used for evaluation purposes and may not under any circumstances be deployed to a live production environment.

The CCP Eval App can be deployed to any AppLogic Private Cloud environment whether or not it is hosted by DNS Europe, another Service Provider or within the Enterprise.

Deploying the CCP to a live production environment

For customers who wish to the CCP to a live production environment, DNS Europe offers 4 models for deploying the CCP for further testing or to a live production environment:

OPTION	ORACLE REQUIREMENTS	PROCESS
DNS Europe-hosted Private Cloud with CCP	DNS Europe provides Oracle-as-a-Services for use with our customer Private Clouds with CCP hosted on DNS Europe's infrastructure	Customer orders hosted Private Cloud with CCP from DNS Europe. Options: <ul style="list-style-type: none"> • Cloud App Templates • Support • CCP customisation Minimum contract term: 30 days
Customer-hosted CCP & Private Cloud (<4GB max size Oracle XE database)	Customer may use built-in, AppLogic-resident Oracle 10g XE. No additional requirements	Customer orders CCP Production version Options: <ul style="list-style-type: none"> • Cloud App Templates • Install assistance • Remote support • CCP customisation Minimum contract term: 1 year
Customer-hosted CCP (>4GB max size Oracle database)	CCP version with embedded Oracle Standard Edition One database	Customer orders CCP Embedded Production version from DNS Europe Options: <ul style="list-style-type: none"> • Cloud App Templates • Install assistance • Remote support • CCP customisation Minimum Contract term: 1 year
Split-hosted CCP	DNS Europe provides Oracle-as-a-Services and CCP hosted on DNS Europe's infrastructure, for use with customer-hosted Private Clouds	Customer orders hosted CCP only (Oracle-as-a-Service) from DNS Europe Options: <ul style="list-style-type: none"> • Cloud App Templates • Support • CCP customisation Minimum contract term: 30 days

To apply for the CCP Eval program, please visit:

<http://www.dnseurope.net/CCP>

Online CCP and AppLogic resources

CCP demo videos:

<http://www.dnseurope.net/CCP/videos>

DNS Europe AppLogic Private Cloud service:

<http://www.dnseurope.net/cloud-services/private-clouds>

More about AppLogic:

<http://www.dnseurope.net/cloud-services/private-clouds/applogic>

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