



CumuloLogic Connector for Citrix CloudPlatform Business Manager Guide

September 2013



Table of Contents

CumuLogic Cloud Services Connector for Citrix CloudPortal Business Manager 2.1.....	1
Introduction	1
Overview	1
Key Features.....	2
Key Benefits.....	2
System Requirements	3
CumuloLogic Service Instance Configuration in Citrix CloudPortal Business Manager.	4
Single Sign-on (SSO) Configuration	4
Connector Account Configuration	5
CumuloLogic Cloud Service Product Bundles	5
CumuloLogic Usage and Billing in Citrix CloudPortal Business Manager	6

CumuLogic Cloud Services Connector for Citrix CloudPortal Business Manager 2.1

Introduction

This document describes how to install and administer the CumuLogic™ Cloud Services Connector for Citrix® CloudPortal™ Business Manager 2.1 and covers the following topics:

1. System Requirements
2. Connector Installation
3. CumuLogic Service Instance Configuration in Citrix CloudPortal Business Manager
4. Single Sign-on (SSO) Configuration
5. Connector Account Configuration
6. CumuLogic Product Bundles
7. CumuLogic Usage and Billing in Citrix CloudPortal Business Manager

Overview

Citrix® CloudPortal™ Business Manager is a cloud services delivery platform that enables enterprises and Cloud Providers to unify the commerce, user management, provisioning and operational aspects of a cloud into a single cloud interface, enabling the journey to IT-as-a-Service. CumuLogic Cloud Services Connector for Citrix CloudPortal extends these services to databases, platform, caching clusters, load balancers and more to deliver Database-as-a-Service, Caching-as-a-Service, and a lot more.

The CumuLogic platform, together with Citrix CloudPortal Business Manager and Citrix CloudPlatform, provides a comprehensive cloud solution for enterprises to

deliver IT-as-a-Service, and for Cloud Providers to offer a portfolio of high value, high margin cloud services for application management.

Key Features

Cloud Services Catalog – Creates a catalog of cloud services for users to provision cloud service in self-service manner. CumuLogic services include Platform-as-Service, MySQL-powered SQL Database-as-a-Service, MongoDB-powered NoSQL Database-as-a-Service, Elastic Cache and Elastic Load Balancer.

Subscriptions for Cloud Services – Users can subscribe to custom packaged services with hourly or monthly billing. Subscriptions provide a predictable way for customers to track their usage and cost.

Flexible Pricing Schemes – Use different pricing for types of customer, partner, organizations and geographies. Enterprises and Cloud Providers can customize pricing for cloud services in different currencies to deliver localized services.

Usage Tracking, Billing and Charge Backs – Provides access to up-to-date, real time usage information and invoices to end-users. Usage information can be used for charge-backs by enterprise IT.

Single Sign-on – Enterprises and Cloud Providers can launch CumuLogic dashboard from Citrix Cloud Portal Business Manager using single-sign to take advantage of CumuLogic cloud services features that may not be currently available on Citrix Cloud Portal Business Manager.

Key Benefits

With the Citrix Ready CumuLogic Connector, IT organizations that are paving the path to IT-as-a-Service can manage subscriptions, usage metering and billing, delivering an integrated ready-to be deployed solution including services such as Database-as-a-Service, Platform-as-a-Service, Cache-as-a-Service, Load Balancer-as-a-Service and many others.

Benefits include:

- Increased revenue and cloud utilization by delivering application services rather than commodity compute and storage services
- Improved developer productivity by over 30% by enabling self-service of application services for custom development
- Lower cost of operations of databases and application stacks by over 35%
- Access from a single control pane for users to consume cloud services as subscriptions
- Usage and billing managing and monitoring through Citrix CloudPortal Business Manager

System Requirements

The connector has the following system requirements:

1. CloudPortal Business Manager v2.1
2. CumuLogic Platform Controller

Connector Installation

Here is how to install the connector in Citrix CloudPortal Business Manager:

1. SSH into CloudPortal Business Manager installation
2. `sudo service cloud-portal stop`
3. Transfer the binaries `com.cumulogic.paas-<x.x.x>.jar` to the location `/usr/share/vts3/connectors`
4. Add the line `<artifact type="bundle" name="com.cumulogic.paas" version="<x.x.x>"/>` within the plan tag in the file `com.citrix.cpbm.connector.plan` located at `/usr/share/vts3/connectors` within the section marked by the xml comment `<!--Cloud Service Connectors-->`.
5. `sudo service cloud-portal start`

CumuLogic Service Instance Configuration in Citrix CloudPortal Business Manager

Here are the configuration items when adding a CumuLogic Cloud Service instance to the connector.

- **End Point URI**- Any CumuLogic PaaS Controller URI- <http://devdemo.cumulogic.com/cumulogic>
- **User Name**- Admin Account Email/Username for PaaS Controller **admin**
- **Password** - Admin Account Password for PaaS Controller **password**
- **CloudStack End Point URI**- CloudStack IaaS API End Point <http://cloudplatform.citrix.com/client/api>
- **Admin Access Key**- Root Admin API access Key for CloudStack IaaS(CCP) for above CloudStackEndPoint **sanjhhdauhdudaud7362gdhagsd6w7ujdgxcwdgdg7wq6edcxgqgw7cyxqgw7gd**
- **Admin Secret Key**- Root Admin API secretKey for CloudStack IaaS(CCP) for above CloudStackEndPoint **cansdicaisdfr98fchenachiwqahediucwqhfeu8asghyc78fwbqt7gfcw**

Single Sign-on (SSO) Configuration

The connector supports single sign-on (SSO) to the CumuLogic portal.

To make CumuLogic SSO working with Citrix CloudPortal Business Manager, web servers must be configured with the proxy changes as described below:

Example

Citrix CloudPortal Business Manager Running Server: <http://cpbm1.cumulogic.com>

CumuLogic PaaS Running Server: **<http://devdemo.CumuLogic.com>**

Configure Citrix CloudPortal Business Manager proxy as specified below:

```

<VirtualHost *:80>
DocumentRoot "/var/www"
ServerName cpbm1.cumulogic.com
ProxyPass/portal          http://cpbm1.cumulogic.com:8080/portal
ProxyPassReverse /portal  http://cpbm1.cumulogic.com:8080/portal
ProxyPass/cl              http://devdemo.cumulogic.com/cl/
ProxyPassReverse/cl       http://devdemo.cumulogic.com/cl/
ProxyPass /CumuLogic      http://devdemo.cumulogic.com/cumulogic
ProxyPassReverse /CumuLogic http://devdemo.cumulogic.com/cumulogic
</VirtualHost>

```

Connector Account Configuration

When the master user of an account enables CumuLogic Cloud service in Citrix CloudPortal Business Manager, the connector creates a User and IaaS target cloud in CumuLogic PaaS.

The following are configuration parameters for customer creation:

- **Access Key**- User account API Access Key for CloudStack IaaS to provision resource through CumuLogic **sasagghsuytwevagyguagisa**
- **Secret Key** - User account API Secret Key for CloudStack IaaS to provision resource through CumuLogic **Sasavegfrvereqwedwsas**
- **Account Password** - The password for the account in CumuLogic PaaS

CumuLogic Cloud Service Product Bundles

1. **CumuLogic RDS** –MySQL as a Service
Resource Type-Database Service, Engine-Mysql-5.X, No-Of Nodes=1 ,Instance Type- Any
2. **CumuLogic NoSQL Service** – MongoDB as a Service
Resource Type-Database Service, Engine-MongoDB, No-Of Nodes=any ,Instance Type- Any
3. **CumuLogic Elastic Cache**
Resource Type-Caching Service, Engine-Memcached, No-Of Nodes=any ,Instance Type- Any

4. **CumuLogic MySQL Cluster** –MySQL Cluster as a Service
Resource Type-Database Service, Engine-MySQL-Cluster, No-Of Nodes=3-X(Minimum 3),
Instance Type- Any
5. **CumuLogic Load Balancer** - Resource Type- Load balancer Service, Engine-Nginx, No-Of
Nodes=1 ,Instance Type- Any
6. **CumuLogic Java EE Framework**
Resource Type- Framework Service ,Engine- JavaEE_Jboss,JavaEE_Tomcat,Instance Type -
Any
7. **CumuLogic Grails Framework**
Resource Type- Framework Service ,Engine- Grails_Tomcat,Instance Type -Any
8. **CumuLogic PHP Framework**
Resource Type- Framework Service ,Engine-PHP,Instance Type -Any

CumuLogic Usage and Billing in Citrix CloudPortal Business Manager

When a CumuLogic Cloud Service is provisioned via Citrix CloudPortal Business Manager, the CumuLogic platform collects charges details directly from CloudStack.

For example, if CumuLogic Database-as-a-Service is subscribed and it's running for two days, Citrix CloudPortal Business Manager will collect usage from CloudStack for the running database running instances and it bill the user.