

# **CATALYST**

## - USER GUIDE





## Contents

1.	Introduct	ion	4
2.	Purpose of this document		4
3.	Login Pag	ge	4
4.	Settings		5
2	4.1 Organiz	ation Setup	5
	4.1.1 Cre	ating the Organization	5
	4.1.2 Cre	ating Environments	5
		ate Business Groups	
4		ops Setup	
	4.2.1	Config Management	
	4.2.2	Import nodes from chef server	
4	4.2 Gallo	ery	
	4.2.1	Template Types and Templates	
	4.2.2	Services	
5	Design		. 11
	5.1 Creating	g BluePrints	. 11
	5 Workzone		
		ances	
	6.1.1	Launching Blueprints	
	6.1.2	Blueprint Actions	
	6.1.3	Control Panel	
,		control i dilet	10



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## 1. Introduction

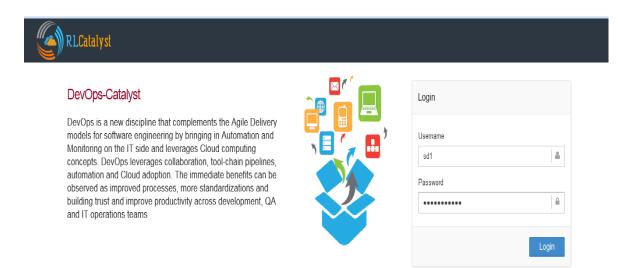
Catalyst is a Cloud Provisioning and Management Self servicing portal.

## 2. Purpose of this document

This document provides the step-by-step details to use Catalyst in a demo environment

## 3. Login Page

1. Access catalyst at catalyst1.relevancelab.com



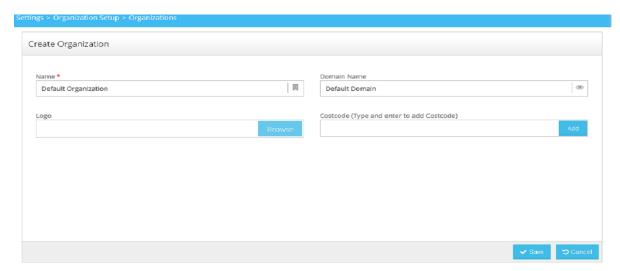
2.Use the credentials sd1/sd1-phoenix to login to catalyst



## 4. Settings

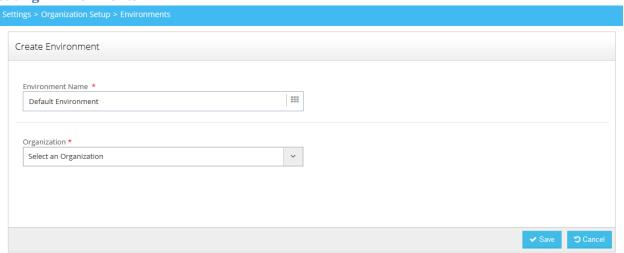
## 4.1 Organization Setup

#### 4.1.1 Creating the Organization



- 1. Enter an Organization Name
- 2. Logo, Domain Name are not mandatory
- 3. Costcode feature will be added in the next release only

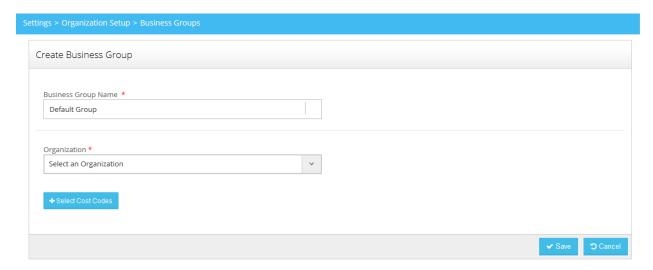
#### **4.1.2 Creating Environments**



- 1. Enter an environment name
- 2. Choose the organization to which the environment is to be attached

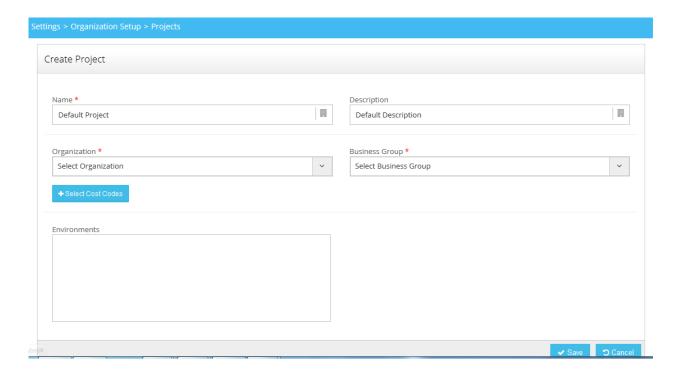


Business Groups can be departments, applications, Project groups or Teams. This represents logical grouping and can be highly customizable based on the requirements.



- 1. Enter a Group Name
- 2. Choose the organization to which the business group is tied up

## **4.1.2 Creating Projects**



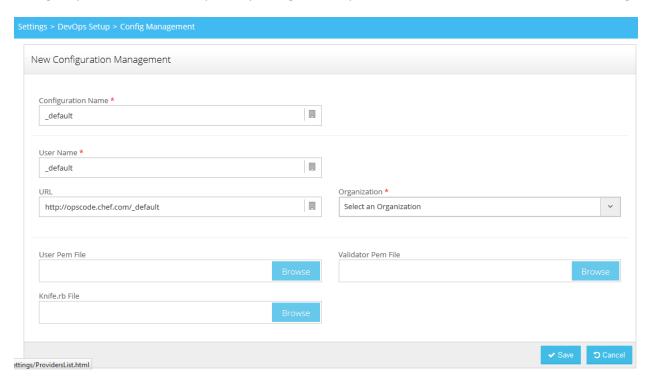


- 1. Enter Project Name
- 2. Choose the Organization and Business Group
- 3. Choose the environments. By default all the environments tied up to the organization will be listed

#### 4.2 Devops Setup

#### 4.2.1 Config Management

Configure your Chef Server and you may configure multiple Chef Servers and associate with various Organizations.

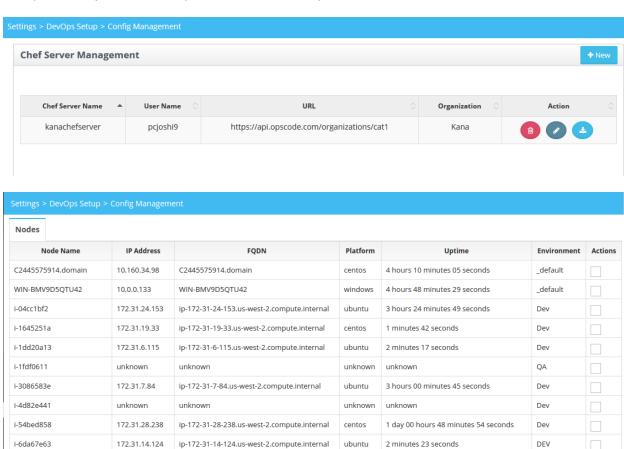


- 1. Enter a name to identify the chef server
- 2. Enter the chef user name
- 3. Enter the chef organization URL
- 4. Choose the organization
- 5. Upload the User Pem File, Knife.rb and the Validator pem file



#### 4.2.2 Import nodes from chef server

Existing nodes from the configured chef server can be imported into catalyst by selecting the required Business Groups and Projects. These imported nodes can be operated from the Workzone



unknown

ubuntu

ubuntu

ip-172-31-18-98.us-west-2.compute.internal

ip-172-31-10-93.us-west-2.compute.internal

unknown

2 minutes 51 seconds

2 minutes 17 seconds

i-8ad6b786

i-bc2a4ab0

i-bddf07b3

unknown

172.31.18.98

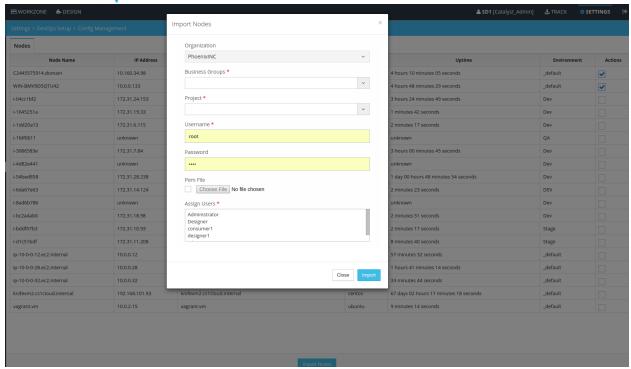
172.31.10.93

Dev

Dev

Stage





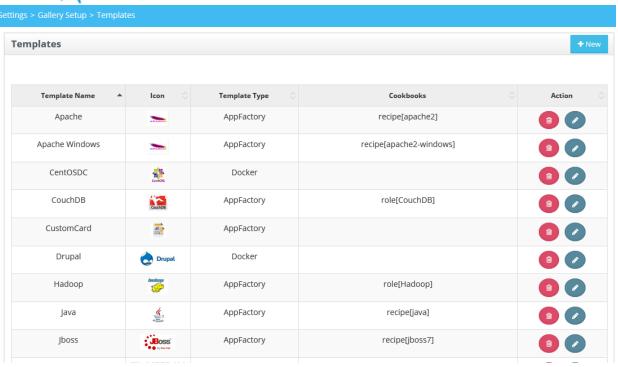
- 1. Select the Import Nodes icon from the configuration management
- 2. Select the required instances
- 3. Click on Import Nodes
- 4. Select the Business groups, projects
- 5. Enter the Username/Password or the pem file to authenticate the connection to the node
- 6. Click on Import
- 7. The imported nodes can be visible under Workzone->Chosen Env

## 4.2 Gallery

#### **4.2.1** Template Types and Templates

Template Types and Templates are loaded into catalyst for all supported cookbooks . New templates can be added for newly added cookbooks

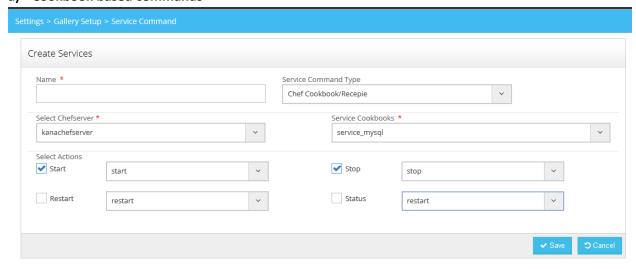




#### 4.2.2 Services

Services can be added from Settings->Gallery Setup->Service Command . User has the option to choose between Chef cookbased based services and System service based commands.

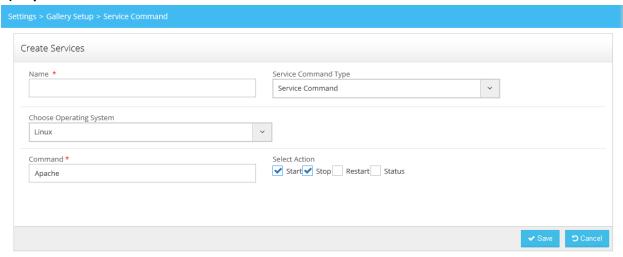
#### a) Cookbook based commands





- 1. Enter the name of the service
- 2. Choose the service Type
- 3. Select the Chefserver
- 4. Select the Cookbook
- 5. Choose the actions needed to be run on the service and choose the respective recipe from the dropdown

#### b) System Service Commands



- 1. Enter the name for the service
- 2. Choose the service Type as 'Service Command'
- 3. Choose the Operating System
- 4. Enter the command
- 5. Choose the actions needed

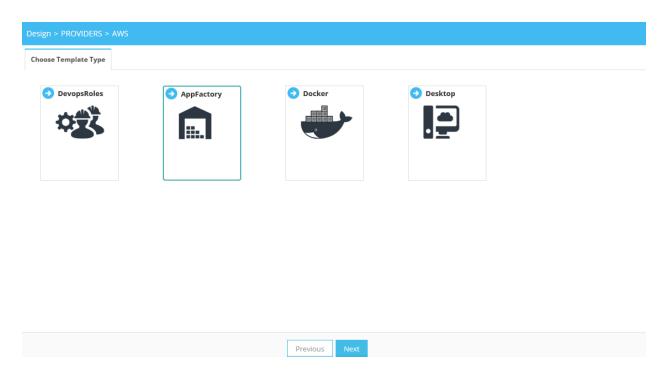
## 5 Design

## **5.1 Creating BluePrints**

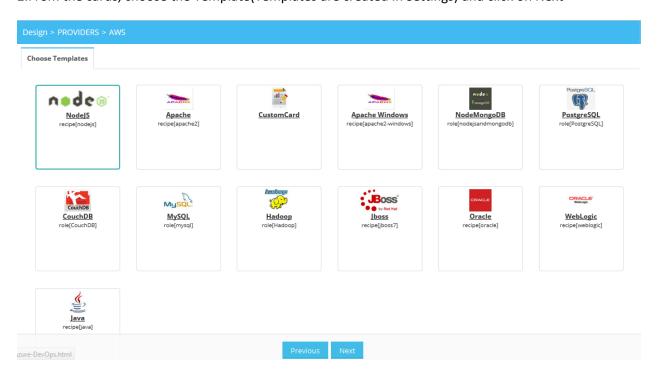
Blueprints are predefined templates which can be used by service consumers to Launch the instances. Blueprints are designed by Service Designers. Each blueprint stores the metadata of the instance, variables, actions and activity.



1. From the cards, choose a Template Type(DevopsRoles/AppFactory are enabled now) and Click on Next

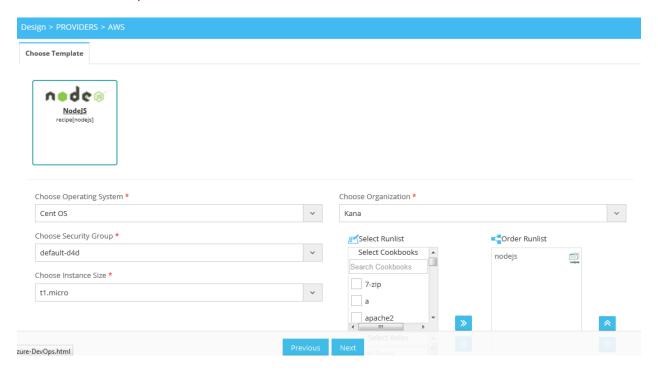


2. From the cards, choose the Template (Templates are created in Settings) and click on Next





#### 3. Enter the Blueprint details



- a) Choose the Operating System
- b) Choose the Security Group
- c) Choose the Instance size(Always choose t1.micro in the demo setup)
- d) Choose the Organization
- e) The cookbooks/roles added in the templates will be listed under Runlist. This is editable
- f) Clicking on Next will save the Blueprint

#### 6 Workzone

#### 6.1 Instances

#### **6.1.1 Launching Blueprints**

Blueprints can be launched from Workzone->Blueprints.

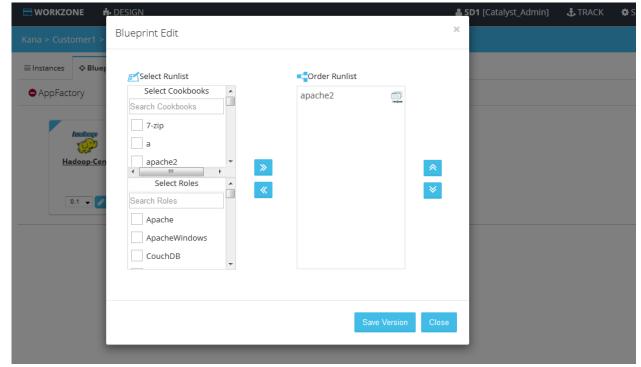
1. Select the blueprint and Click on 'Launch'







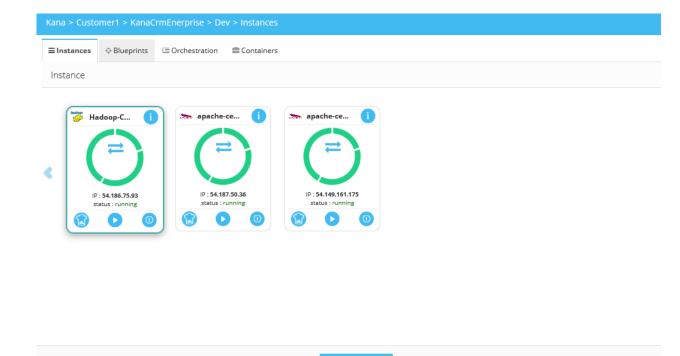
2. User can edit the runlist by clicking on the Edit icon. The edited blueprint will be saved with a new version number



3. User can chose the version of the blueprint before launch



- 4. Once the 'Launch' button is clicked, the instance will be launched in 5-8 minutes
- 5. The launched instances can be viewed under Workzone->Instances



#### 6.1.2 Blueprint Actions

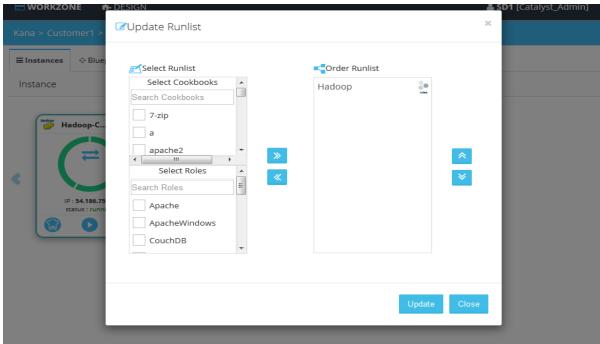
#### 1. Info

The Info icon on the top right corner of each instance card , will give the logs associated with the instance

#### 2. Chef Run

Any extra action on the running instance can be performed via the ChefRun button, which is displayed at the bottom left corner. Installing new software, upgrading a software etch can be performed using this icon. Clicking on the icon will open a popup and the runlist can be updated . Upon clicking 'Update', the updated runlist will be executed on the instance





#### 3. Start

An imported node can be started by using the icon 'Start'

#### 4. Stop

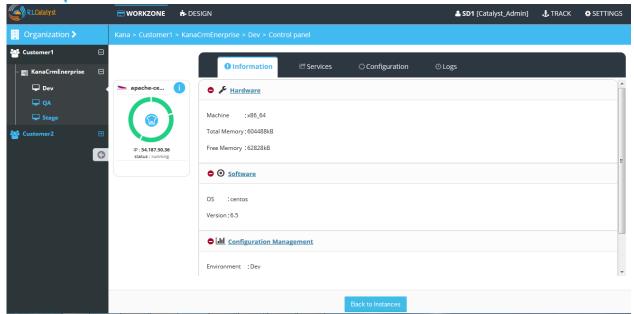
An instance can be stopped by clicking on the 'Stop' icon at the bottom right corner of each instance card. The status will be changed to Red, once stopped

#### 6.1.3 Control Panel

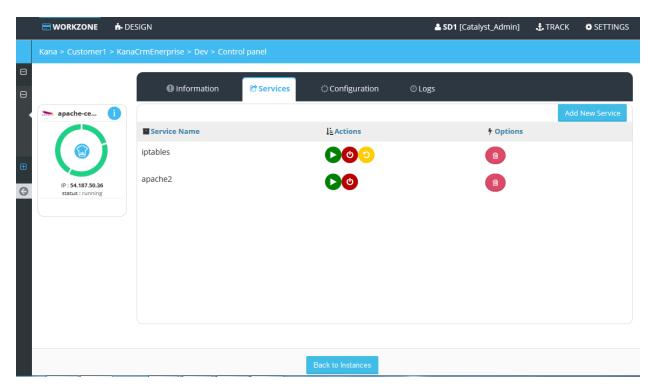
Control Panel will give the details about the running instance .

1.Information tab gives hardware and software information about the instance



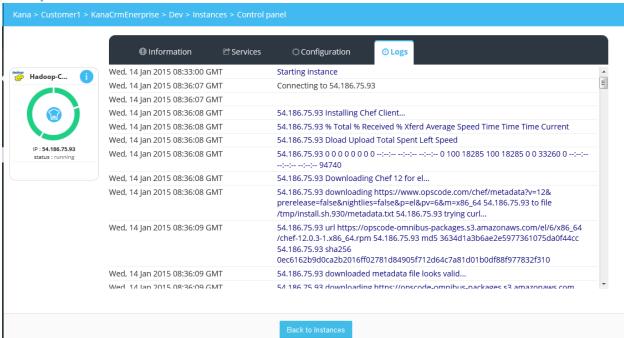


2. Services can be assigned to an instance from the Services tab . User can attach new services to the instance by clicking on the 'Add New Service' button



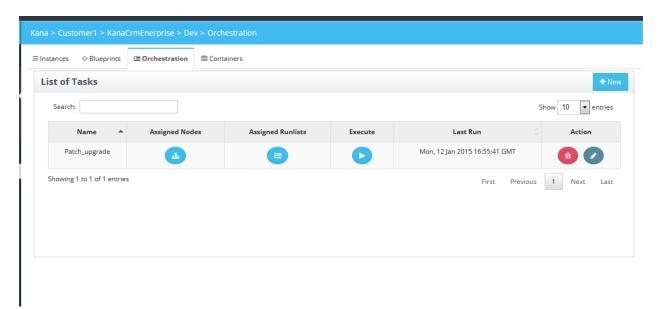
3. Logs can be viewed from the Logs tab





#### 6.2 Orchestration

User can execute one or more tasks/actions on multiple nodes at the same time by making use of the orchestration tab . This is accessible at Workzone->Orchestration



New tasks can be added by clicking on the 'New' Button



- a) Select the task type as 'Chef' (Jenkins support will be available from the next release)
- b) Enter a Task name
- c) Choose the nodes from the list of all available nodes
- d) Choose the cookbooks/roles and click on save
- e) Tasks can be executed from Orchestration->Execute button

