

Amenesik

# Service Dashboard

User Guide Version 1.0a

Iain James Marshall  
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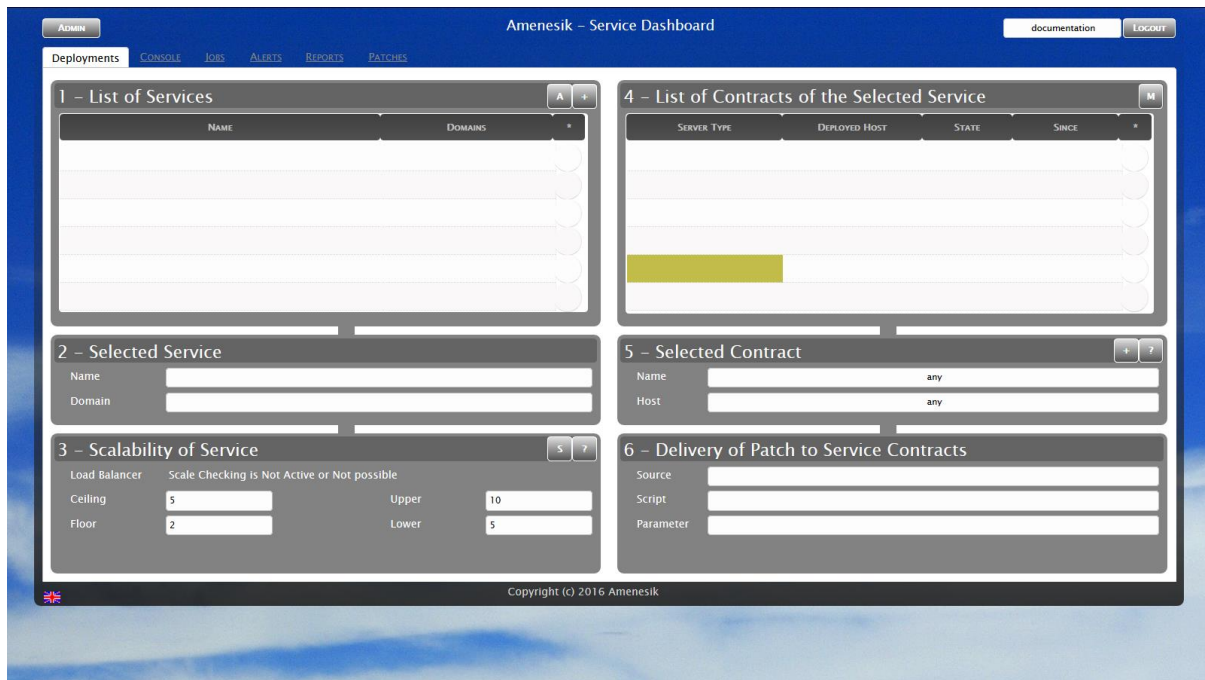
## Introduction

This document describes the operations and behaviour of the new Amenesik Service Dashboard designed, developed and distributed by Amenesik, for use with the Amenesik Cloud Engine, an industrialised version of the Accords Platform Cloud Brokerage and Cloud Provisioning software initially developed under Apache 2 license during the CompatibleOne project.

## Overview

The Amenesik Service Dashboard provides an integrated and interactive cloud service management tool with quick and easy access for the management of the life cycle of all deployed cloud instances and resources.

The following screen shot shows the main user interface of the Amenesik Service Dashboard.



The user interface comprises the following regions or frames:

1. The List of Services frame
2. The Selected Service frame
3. The Service Scalability frame
4. The List of Contracts of the Selected Service frame
5. The Selected Contract frame
6. The Patch Delivery Frame

Each of these frames will be presented in detail in the following sections of this document.

## List of Services

This region presents the list of service instances that have been created for the user account and shows their current status with a red light indicating stopped and a green light indicating started. The black animation indicates a service instance that is currently working and may be either starting or stopping.

## Service Reporting

The “R” button will be displayed when an instance report failure has been encountered and allows access to the list of instance reports for consultation.

## Service Address Allocation

The “A” button gives access to the list of IP addresses that have been attributed to service contracts for the user account.

## Service Editor

The “+” button gives access to the Amenesik Service Editor tool allowing management of Service Agreements and Instances for the current user account.

A mouse click on the name column of a service in this list will load the service as the currently selected service for the application of other dashboard functions.

A mouse click on the status column of a service instance in the list will transfer control to the Console Page for confirmation of the corresponding state change from started to stopped or from stopped to started depending on the current state of the service.

## Selected Service

This region presents the instance name and the application domain or manifest name of the currently selected service instance.

## Service Clone

The “K” button transfers control to the Console Page for confirmation of the request to clone a replacement of the currently selected service instance. If this operation is accepted, then a new service instance will be created from the service level agreement of the selected service instance. The resulting service instance will be started and when ready the initial instance will be stopped and then deleted leaving only the newly clones copy.

## Service Life Cycle Events

The “E” button activates and displays the Service Life Cycle Events inset frame for management of the life cycle scripts associated with the currently selected service instances. These scripts, when declared, will be invoked at the following moments in the Service Life Cycle:

### Service Start

The script will be launched when the service *start* action has been successfully completed.

### Service Stop

The script will be launched before the service *stop* action is launched.

### Service Save

The script will be launched when a service *save* or *snapshot* action has been successfully completed.

### Service Failure

This script will be launched when any of the above life cycle events has failed or when the health monitor script detects the absence of the service instance.

## Service Agreement

The “?” button transfers control to the Console Page for confirmation of the request for inspection of the service level agreement of the currently selected service. If the request is accepted, then the XML rendering of the agreement will be displayed on the Console Page.

## Scalability of Service

This region shows scalability information for the selected service instance if this is possible and if this has been activated.

## Elasticity Parameters

The scalability information will be retrieved by a request to the COOL interface of the service instance returning the following fields:

### Elastic Floor

The elastic floor value indicates the minimum number of machines that are to be deployed at any one moment in time for a scalable service instance.

### Elastic Ceiling

The elastic ceiling value indicates the maximum number of machines that are to be deployed at any one moment in time for a scalable service instance.

### Upper Threshold

The upper threshold value indicates the upper limit of requests per machine that will trigger invocation of a scale-up operation unless the elastic ceiling has already been reached.

### Lower Threshold

The upper threshold value indicates the lower limit of requests per machine that will trigger invocation of a scale-down operation unless the elastic floor has already been reached.

## Elasticity Operations

When a scalable and active service has been selected as the current service instance then the following scalability control operations will be displayed.

### Set Scalability

This operation will set the scalability characteristics of the load balancing and scalability node to the values provided by the four input fields. In this way the scalability characteristics can be set in real time mode to handle unexpected arising situations.

### Scale Back

This operation will scale the service back to the number of machines indicated by the value of the elastic floor of the currently selected service instance. If the elastic floor has been raised, to above the current machine count, then this operation will in fact scale up to the elastic floor limit.

### Scale Down

If the active machine count of the currently selected service instance is greater than the value indicated by the elastic floor parameter, then one of the machines will be stopped.

### Scale Up

If the active machine count of the currently selected service instance is less than the value indicated by the elastic ceiling parameter, then one more machine will be started.

### Scale Out

This operation will scale the service out to the number of machines indicated by the value of the elastic ceiling of the currently selected service instance. If the elastic ceiling has been lowered, to below the current machine count, then this operation will in fact scale down to the elastic ceiling limit.

### Inspect Capacity Graphs

The “?” button will generate and display the scalability graphs for the 123 bearing service by analysing the current contents of the **/var/log/syslog** file by extracting scalability probe monitoring information. These graphs show the current maximum, minimum and average session counts along with the maximum, minimum and average percentage of capacity usage figures. Scale up and down operations can be seen graphically when the green area, representing potential, increases or reduces.

### Toggle Elasticity Retrieval

The “Y” or “N” buttons will toggle the state of retrieval of scalability information for the selected service. The retrieval of scalability information requires an API call to the COOL interface of the load balancing and scalability node of the selected service.

### List of Contracts of the Selected Service

This region shows the list of contracts, of the currently selected service instance, and shows their current status with a red light indicating stopped and a green light indicating started. The black animation indicates a contract that is currently working and may be either starting or stopping.

A contract can be chosen to be the current selected contract by clicking on the name column of the contract in the list.

A mouse click on the deployed host column of a contract will transfer control to the Console Page for validation of connection to the HTTP port of the selected contract.

A mouse click on the status column of a contract in the list will transfer control to the Console Page for confirmation of the corresponding state change from started to stopped or from stopped to started depending on the current state of the contract.

### Manifest Editor

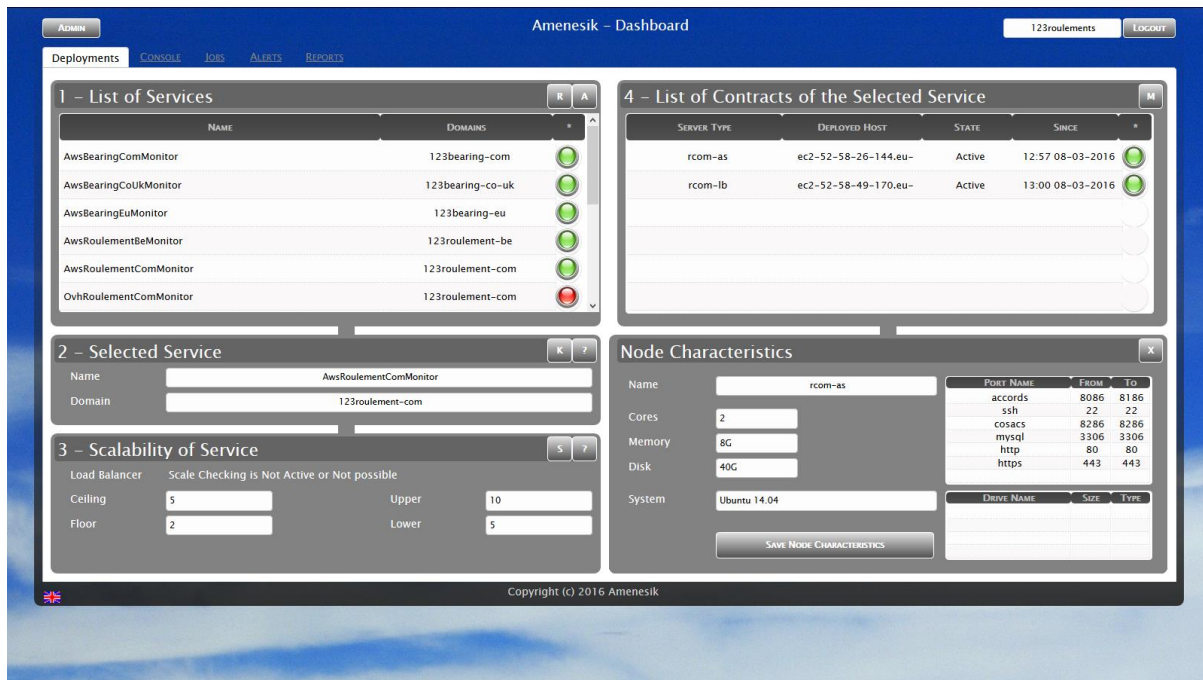
The “M” button in the top right hand corner of this region gives access to the Manifest Editor tool. For more information about this please consult the corresponding document.

### Selected Contract

This region shows the name of the selected contract of the currently selected service instance. If the contract is running, then the host name will be displayed.

### Contract Node Properties

The “?” button allows access to the Contract Node Properties dialog box for inspection of the node characteristics of the selected contract. This dialog box also allows for modification of the primary compute and storage characteristics of the contract node. Any modifications will take effect when the contract has been restarted.



### Name

This field shows the name of the node.

### Cores

This field allows consultation and modification of the number of CPUs or CORES to be used by the corresponding virtual machine.

### Memory

This field allows consultation and modification of the amount of RAM to be allocated for the virtual machine.

### Disk

This field allows consultation and modification of the total amount of primary disk space to be allocated for the virtual machine.

### System

This field allows consultation and modification of the operating system or virtual disk image to be used to start the virtual machine.

### Ports List

This field shows the composition of the firewall, associated with the node, in terms of its service ports.

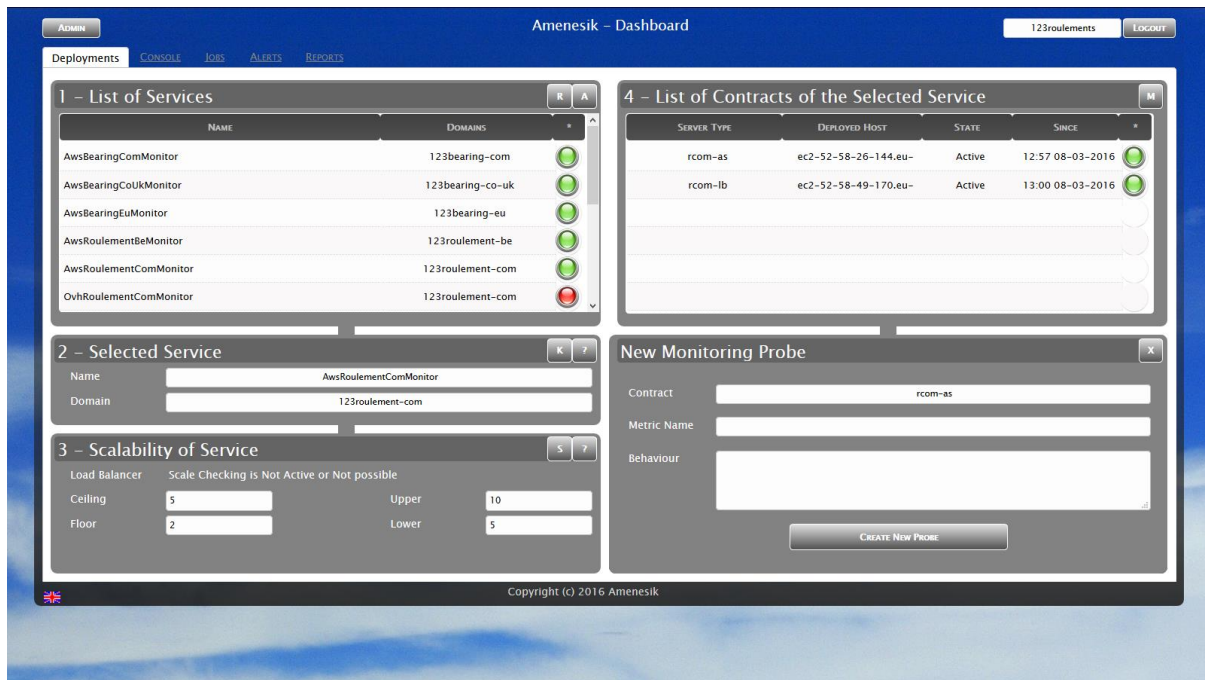
### Drive List

This field shows the additional volumes or drives associated with the node.

### Contract Probes

The "+" button may be used to add new monitoring probes to the contract. The monitoring probe dialog box will be presented allowing the details and periodicity of the monitoring operation to be specified.





### Contract

This field shows the name of the selected contract node.

### Metric Name

This field allows the name of the monitoring metric to be specified.

### Behaviour

This field allows an eventual behaviour to be specified. This will be launched when data from the probe is received by the monitoring control system.

## Patch Delivery to Selected Service Contracts

This region allows software patches to be applied to the selected service or service contracts. The patch must be made available on a depot server and will be delivered through the COSACS interface of the specified contracts for immediate execution.

### Source

This field will be the full URL access path to the depot server from which the patch is to be retrieved. The value of the SOURCE field will be concatenated with the path separator prefixed value of the SCRIPT field and must form the valid URL for retrieval of the patch.

### Script

This field will provide the script name to be retrieved and launched on the selected contracts.

### Parameter

This field allows any eventual parameters to be specified for the launch of the script.

### Deliver Patch

This button allows you to launch the delivery of the patch to all machines that match the service contract selection criteria.

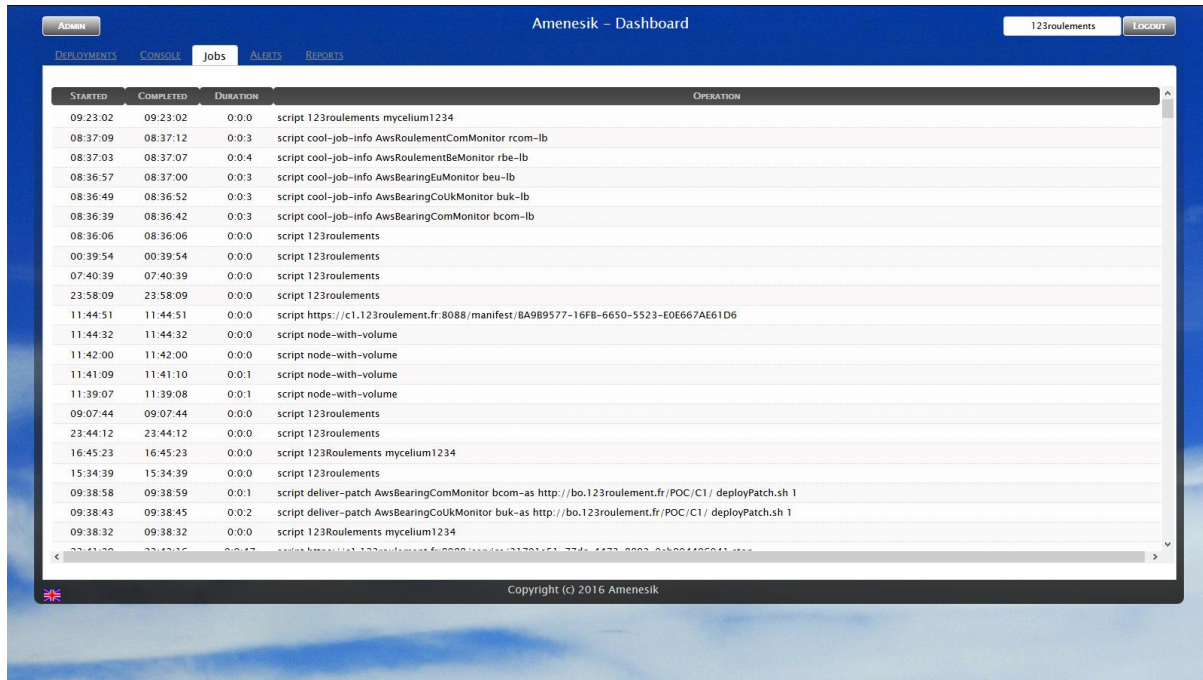
### List Scripts

This button allows the machine endpoints matching the service contract criteria to be interrogated to retrieve the list of recent patch deliveries.

## List of Jobs

This tab page shows the list of jobs and their completion status that were launched in response to operations requested through the Amenesik Service Dashboard and in response to dashboard requirements.

The following screen capture shows the job list.



STARTED	COMPLETED	DURATION	OPERATION
09:23:02	09:23:02	0:0:0	script 123roulements mycelium1234
08:37:09	08:37:12	0:0:3	script cool-job-info AwsRoulementComMonitor rcom-lb
08:37:03	08:37:07	0:0:4	script cool-job-info AwsRoulementBeMonitor rbe-lb
08:36:57	08:37:00	0:0:3	script cool-job-info AwsBearingEuMonitor beu-lb
08:36:49	08:36:52	0:0:3	script cool-job-info AwsBearingCoUkMonitor buk-lb
08:36:39	08:36:42	0:0:3	script cool-job-info AwsBearingComMonitor bcom-lb
08:36:06	08:36:06	0:0:0	script 123roulements
00:39:54	00:39:54	0:0:0	script 123roulements
07:40:39	07:40:39	0:0:0	script 123roulements
23:58:09	23:58:09	0:0:0	script 123roulements
11:44:51	11:44:51	0:0:0	script https://c1.123roulement.fr:8088/manifest/BA9B9577-16FB-6650-5523-E0E667AE61D6
11:44:32	11:44:32	0:0:0	script node-with-volume
11:42:00	11:42:00	0:0:0	script node-with-volume
11:41:09	11:41:10	0:0:1	script node-with-volume
11:39:07	11:39:08	0:0:1	script node-with-volume
09:07:44	09:07:44	0:0:0	script 123roulements
23:44:12	23:44:12	0:0:0	script 123roulements
16:45:23	16:45:23	0:0:0	script 123Roulements mycelium1234
15:34:39	15:34:39	0:0:0	script 123roulements
09:38:58	09:38:59	0:0:1	script deliver-patch AwsBearingComMonitor bcom-as http://bo.123roulement.fr/POC/C1 / deployPatch.sh 1
09:38:43	09:38:45	0:0:2	script deliver-patch AwsBearingCoUkMonitor buk-as http://bo.123roulement.fr/POC/C1 / deployPatch.sh 1
09:38:32	09:38:32	0:0:0	script 123Roulements mycelium1234
23:43:36	23:43:36	0:0:0	script https://c1.123roulement.fr:8088/manifest/BA9B9577-16FB-6650-5523-E0E667AE61D6



## Service Report List

This tag page shows the results of the periodic service status reports that are performed under timer control for the verification of service and contract activity.

DATE	MACHINE	ADDRESS	STATE
10:16 14-03-2016	AwsRoulementBeMonitor.rbe-as	https://ec2-52-29-47-147.eu-central-1.compute.amazonaws.com:8286/metadata/	OK
10:16 14-03-2016	AwsRoulementBeMonitor.rbe-lb	https://ec2-52-58-7-166.eu-central-1.compute.amazonaws.com:8286/metadata/	OK
10:16 14-03-2016	AwsBearingEuMonitor.beu-lb	https://ec2-52-29-68-108.eu-central-1.compute.amazonaws.com:8286/metadata/	OK
10:16 14-03-2016	AwsBearingEuMonitor.beu-as	https://ec2-52-58-14-118.eu-central-1.compute.amazonaws.com:8286/metadata/	OK
10:16 14-03-2016	AwsBearingComMonitor.bcom-lb	https://ec2-52-49-91-115.eu-west-1.compute.amazonaws.com:8286/metadata/	OK
10:16 14-03-2016	AwsBearingComMonitor.bcom-as	https://ec2-52-31-230-182.eu-west-1.compute.amazonaws.com:8286/metadata/	OK
10:16 14-03-2016	AwsRoulementComMonitor.rcom-lb	https://ec2-52-58-49-170.eu-central-1.compute.amazonaws.com:8286/metadata/	OK
10:16 14-03-2016	AwsBearingCoUkMonitor.buk-lb	https://ec2-52-16-217-180.eu-west-1.compute.amazonaws.com:8286/metadata/	OK
10:16 14-03-2016	AwsRoulementComMonitor.rcom-as	https://ec2-52-58-26-144.eu-central-1.compute.amazonaws.com:8286/metadata/	OK
10:16 14-03-2016	AwsBearingCoUkMonitor.buk-as	https://ec2-52-50-82-125.eu-west-1.compute.amazonaws.com:8286/metadata/	OK
10:01 14-03-2016	AwsRoulementBeMonitor.rbe-lb	https://ec2-52-58-7-166.eu-central-1.compute.amazonaws.com:8286/metadata/	OK
10:01 14-03-2016	AwsRoulementBeMonitor.rbe-as	https://ec2-52-29-47-147.eu-central-1.compute.amazonaws.com:8286/metadata/	OK
10:01 14-03-2016	AwsBearingEuMonitor.beu-lb	https://ec2-52-29-68-108.eu-central-1.compute.amazonaws.com:8286/metadata/	OK
10:01 14-03-2016	AwsBearingEuMonitor.beu-as	https://ec2-52-58-14-118.eu-central-1.compute.amazonaws.com:8286/metadata/	OK
10:01 14-03-2016	AwsRoulementComMonitor.rcom-lb	https://ec2-52-58-49-170.eu-central-1.compute.amazonaws.com:8286/metadata/	OK
10:01 14-03-2016	AwsBearingComMonitor.bcom-as	https://ec2-52-31-230-182.eu-west-1.compute.amazonaws.com:8286/metadata/	OK
10:01 14-03-2016	AwsBearingComMonitor.bcom-lb	https://ec2-52-49-91-115.eu-west-1.compute.amazonaws.com:8286/metadata/	OK
10:01 14-03-2016	AwsRoulementComMonitor.rcom-as	https://ec2-52-58-26-144.eu-central-1.compute.amazonaws.com:8286/metadata/	OK
10:01 14-03-2016	AwsBearingCoUkMonitor.buk-lb	https://ec2-52-16-217-180.eu-west-1.compute.amazonaws.com:8286/metadata/	OK
10:01 14-03-2016	AwsBearingCoUkMonitor.buk-as	https://ec2-52-50-82-125.eu-west-1.compute.amazonaws.com:8286/metadata/	OK
09:45 14-03-2016	AwsRoulementBeMonitor.rbe-lb	https://ec2-52-58-7-166.eu-central-1.compute.amazonaws.com:8286/metadata/	OK
09:45 14-03-2016	AwsRoulementBeMonitor.rbe-as	https://ec2-52-29-47-147.eu-central-1.compute.amazonaws.com:8286/metadata/	OK

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## Software Patch Management

This tag page, shown in the diagram below, provides the software patch management functionalities of the Amenesik Service Dashboard.

The software patch management comprises the following regions:

- 1) The List of Software patches
- 2) The currently selected Software Patch.
- 3) The list of Software Patch deliveries.

### List of Software Patches

This region of the Software Patch Manager shows the List of Software patches defined for the account of the logged in user. A Software Patch may be selected for inspection as the currently selected Software Patch by clicking with the mouse on an entry in this list.

The “+” button may be used to initiate the creation of a new Software Patch.

### Currently Selected Software Patch

This region of the Software Patch Manager presents the details of the currently selected Software Patch for inspection and eventual modification and comprises the following member fields and operations.

#### Members

##### *Name*

This field contains the name of the Software Patch for visual identification purposes.

##### *Description*

This field may be used to provide detailed information about the software patch and the way it should be used.

### *Target*

This field is currently not used but is reserved for use by the future extension that will allow periodic delivery of software updates to specified target services and their contracts.

### *Source*

This field provides the full URL of the source from which the Software Patch will be retrieved.

### *Script*

This field provides the name of the Software Patch script file that will be retrieved from the Source and launched on the Target.

### *Parameters*

This field allows parameter values to be defined as required by the Script and indicated in the Description.

### *Nature*

This field is currently not used but is reserved for use by the future extension that will allow periodic delivery of software updates to specified target services and their contracts.

### *Period*

This field is currently not used but is reserved for use by the future extension that will allow periodic delivery of software updates to specified target services and their contracts.

## Operations

### *Delete*

The “!” button in the top left corner of this region of the Software Patch Manager allows the currently selected Software Patch to be deleted.

### *Update*

The “Save Software Patch” button of this region of the Software Patch Manager allows any modification to the fields of the currently selected Software Patch to be saved to the database.

### *Deliver*

The “Deliver Software Patch” button of this region of the Software Patch Manager allows the Patch Information to be used in a Software Patch Operation on the Service Management Page.

## List of Patch Deliveries

This region of the Software Patch Manager presents the list of Software Patch Delivery events that have been performed for this Path showing the Date of the Delivery and the Operation Status.

## References

This section of the document provides a collection of links to cloud standards documentation and Amenesik support documents.

### OCCI

The following documents are available from the OGF web site:

- OCCI CORE Version 1.1:  
<https://www.ogf.org/documents/GFD.183.pdf>
- OCCI INFRASTRUCTURE Version 1.1 :  
<https://www.ogf.org/documents/GFD.184.pdf>
- OCCI http Version 1.1 :  
<https://www.ogf.org/documents/GFD.185.pdf>

### TOSCA

The following documents are available from the OASIS web site

- TOSCA Version 1.1:  
<http://docs.oasis-open.org/tosca/TOSCA/v1.0/os/TOSCA-v1.0-os.pdf>
- TOSCA Namespace:  
<http://docs.oasis-open.org/tosca/ns/2011/12>

### CIMI

The following documents are available from the DMTF web site

- CIMI Version 1.1 :  
[http://www.dmtf.org/sites/default/files/standards/documents/DSP0263\\_1.0.1.pdf](http://www.dmtf.org/sites/default/files/standards/documents/DSP0263_1.0.1.pdf)

### CORDS

The following documents are available from the CompatibleOne community web site:

- CORDS Version 1.1 :  
<http://www.compatibleone.com/community/wp-content/uploads/2014/05/CordsReferenceManualV2.15.pdf>

### AMENESIK

The following documents are available from the AMENESIK web site:

- Amenesik Enterprise Cloud (AEC) Version 1.1:  
<http://www.amenesik.com/cloud/AmenesikCloud.pdf>
- Amenesik Cloud Engine (ACE) Version 1.1:  
<http://www.amenesik.com/cloud/AmenesikCloudEngine.pdf>
- Amenesik Manifest Editor (AME) Version 1.1:  
<http://www.amenesik.com/cloud/AmenesikManifestEditor.pdf>
- Amenesik Agreement Editor (ASE) Version 1.1:  
<http://www.amenesik.com/cloud/AmenesikServiceEditor.pdf>
- Amenesik Service Dashboard (ASD) Version 1.1:  
<http://www.amenesik.com/cloud/AmenesikServiceDashboard.pdf>
- Amenesik Cloud Operator (ACO) Version 1.1:  
<http://www.amenesik.com/cloud/AmenesikCloudOperator.pdf>



- Amenesik Platform Editor (APE) Version 1.1:  
<http://www.amenesik.com/cloud/AmenesikPlatformEditor.pdf>
- Amenesik Platform Service (APS) Version 1.1:  
<http://www.amenesik.com/cloud/AmenesikPlatformService.pdf>