

EPAM Cloud Infrastructure

Orchestrator ver. 2.0.29

What's New

April 2013

[CIWN-S29](#)

Version 1.0

Content

Content.....	2
1. OVERVIEW.....	3
2. NEW FEATURES.....	3
2.1. Custom User Scripts	3
2.2. Mobile User Interface	4
2.3. Instance operations scheduler	5
3. FIXES AND IMPROVEMENTS.....	6
3.1. User Interface Refreshments	6
3.2. VM status changes.....	7
3.3. Overall speed boost	7
TABLE OF FIGURES.....	8
VERSION HISTORY	8

1. Overview

EPAM Orchestration Framework version 2.0.29 was released on April 27th, 2013. As previous and always, release is mainly focused on increasing stability and reliability of framework, nevertheless introducing lots of important new features.

This document introduces you to major new features and improvements, detailed further below.

2. New Features

2.1. Custom User Scripts

Are you confused with the complexity of Chef Recipes and requirements of it maintenance? Well, we completely understand you, you want it the good old simple way. A custom script, like Batch or PowerShell for Windows and Bash or Shell for Linux. Now you can apply your own scripts, upload up to 10 of them to Orchestrator, describe them and assign for newly created instance. Mechanically it works as simple as all other CLI commands. We introduced 3 new commands: 'or2-upload-script(or2ups)', 'or2-describe-scripts(or2ds)' and 'or2-delete-script(or2dels)'. Plus, a new parameter is introduced for 'or2-run-instances' command to set the desired script, '--script' Sample execution of these commands can be viewed below.

Describe Scripts:

```

C:\WINDOWS\system32\cmd.exe
C:\CLI\maestro-cli-qa\bin>or2ds -p EPMC-CL0
Response:
=====
name      | description                               | link
-----
basnya.sh | basnya krylova script                     | /files/4819eccd-5045-4103-8f8f-c7ed67e74d92/basnya.sh
bat.cmd   | Windows bat file                          | /files/02cf545-48ab-4af5-89d4-a701cc8a792c/bat.cmd
hostname-improved.sh | Windows application hostname.exe. Zakos pod bash | /files/a96718ab-bef9-4661-9d7e-384b8c949d9a/hostname-improved.sh
hostname.ps1 | Windows application hostname.exe         | /files/378c72ad-1a4b-40d7-b0ea-70762c3054e0/hostname.ps1
hostname.sh | Windows application hostname.exe         | /files/5e409ac0-0ecb-4319-83e5-2514fa650e5c/hostname.sh
mypower.ps1 | my powershell script                    | /files/b8012b44-f5e5-414c-930e-b535be202580/mypower.ps1
myscript_1.sh | my script                                 | /files/b07fd61d-da63-47dc-b105-10b69c8095d2/myscript_1.sh
pp.pl     | my perl script                            | /files/d6364aa4-5dad-430b-a878-2b4b71f77883/pp.pl
sor2.sh  | my script                                 | /files/54b04fed-d62d-4077-9fe6-bef3b3d95de3/sor2.sh
=====
  
```

Figure 1 – sample 'or2ds' execution response

Upload Scripts:

```

C:\WINDOWS\system32\cmd.exe
C:\CLI\maestro-cli-qa\bin>or2ups -p EPMC-CL0 -d "Test Script for What's New" -path C:\CLI\maestro-cli-qa\bin
Response:
=====
name      | description                               | link
-----
echo.bat  | Test Script for What's New                 | /files/8315ba45-8b6c-4deb-b265-38ac27baead7/echo.bat
=====
C:\CLI\maestro-cli-qa\bin>
  
```

Figure 2 – sample 'or2ups' execution response

Delete Scripts:

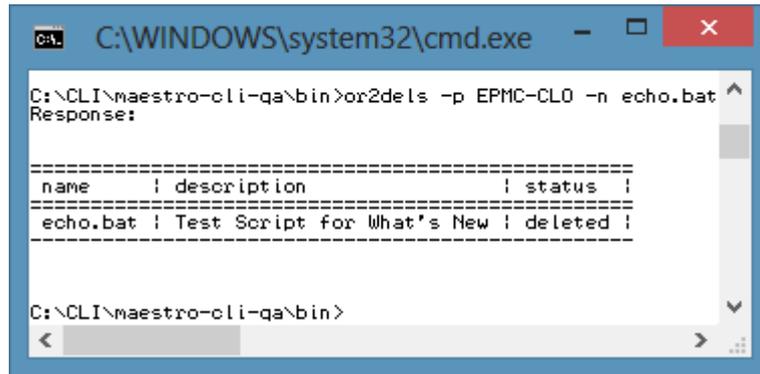


Figure 3 – sample 'or2dels' execution response

Thus resulting in more functionality and flexibility of Orchestration Framework and convenience of you.

2.2. Mobile User Interface

How comfortable it is to check for your expenses? With our User Interface it is really easy. However, we are all mobile now and willing to take our work with us anywhere. Willing to check emails on the go, view presentations, read documents and from now on – control your EPAM Private Cloud infrastructure. All UI elements are optimized for mobile devices and you can feel that for yourself or take a look at screenshots below:



Figure 4 – login page on Mobile UI

After you login, dashboard looks similar to this:

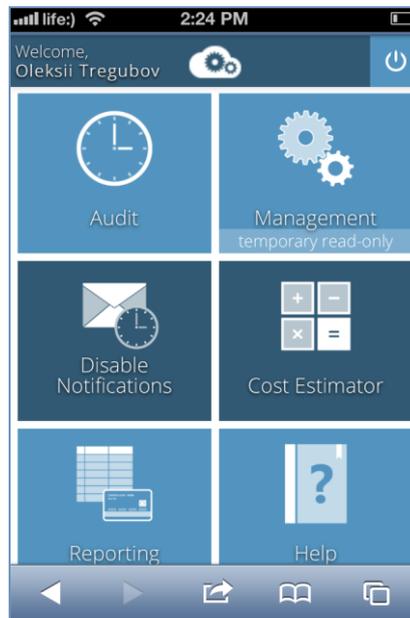


Figure 5 – dashboard on Mobile UI

Sample billing report for you project will look as follows:

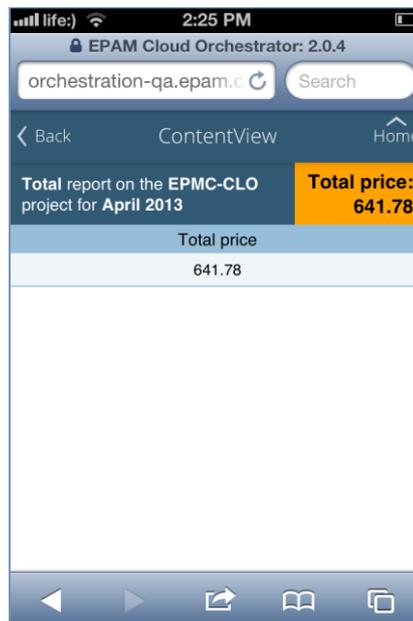


Figure 6 – project billing report on Mobile UI

2.3. Instance operations scheduler

Thinking of you and your infrastructure expenses, keeping our promises, we introduce you the instance scheduler.

This functionality brings you the power to control your VMs without actually controlling them all the time. Just set the timer to power on/ power up for each of them and Orchestrator will

take care of starting instances at 9.00 AM to start your working day and shutting them down at 6.30 PM when you leave the office.

As you remember, you only pay for storage, when instances are in stopped state, thus resulting in cutting on expenses. Here is how it works:

- Create schedule ('*or2-create-schedule*') or describe existing ones ('*or2-describe-schedules*')
- Add instances to schedule ('*or2-schedule-add-instances*')
- Delete some of them, if you accidentally added wrong ones ('*or2-schedule-remove-instances*')
- Remove the schedule, when no longer used ('*or2-delete-schedule*')

By following instructions and providing required parameters to each command, you can create a set of flexible schedules to start and stop your instances.

3. Fixes and Improvements

EPAM Cloud Consulting Team has been carefully aggregating and processing user feedbacks after the previous release. We are, as usual, open for improvements and feature requests. Most notable improvements and fixes are introduced here, unless you want to see them all. If you do – look through our Release Notes document for full list.

As we are still not perfect, many more bug fixes have been introduced in this release. We keep constantly doing our system better and better and more stable and hope, you notice it.

3.1. User Interface Refreshments

We have made some changes to current User Interface to make it more comfortable and refreshed. 'Events' Tab has been renamed to 'Audit' to reflect the essence of actions. Along that, Dashboard has been refreshed:

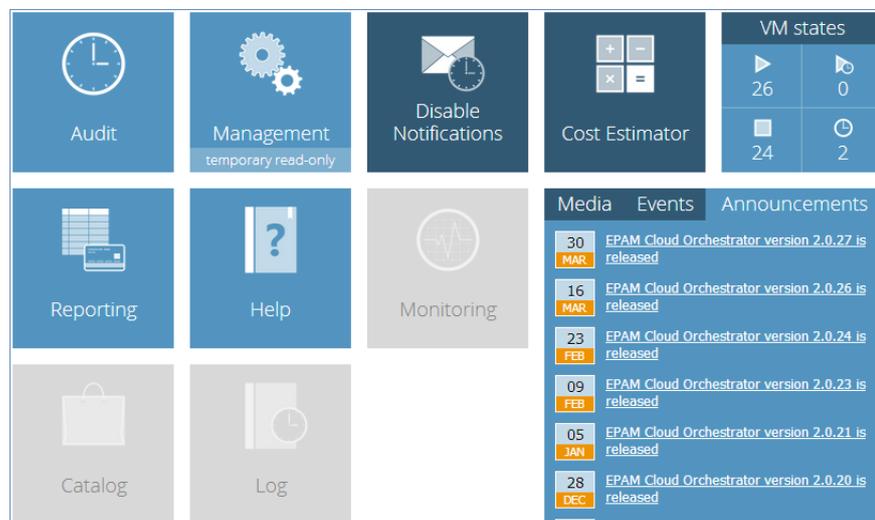


Figure 7 – refreshed UI Dashboard

3.2. VM status changes

Since now on we have implemented a more user-friendly way to show actual state of VMs that you are waiting for.

- *'starting'* – reflects VM currently being created or sits in queue;
- *'error + errorDescription'* –reflects any malfunction in system and states that for some reason VM was not created or put to queue;

3.3. Overall speed boost

Yet again we continue to improve some under-the-hood stuff, which directly affects user performance in a positive way. Instances run faster, volumes attach quicker and everything else is boosted.

Improvements on infrastructure and virtualization layers, along with code refactoring has boosted VM launch time noticeably.

... and many others. For full list of those, please see our Release Notes document.

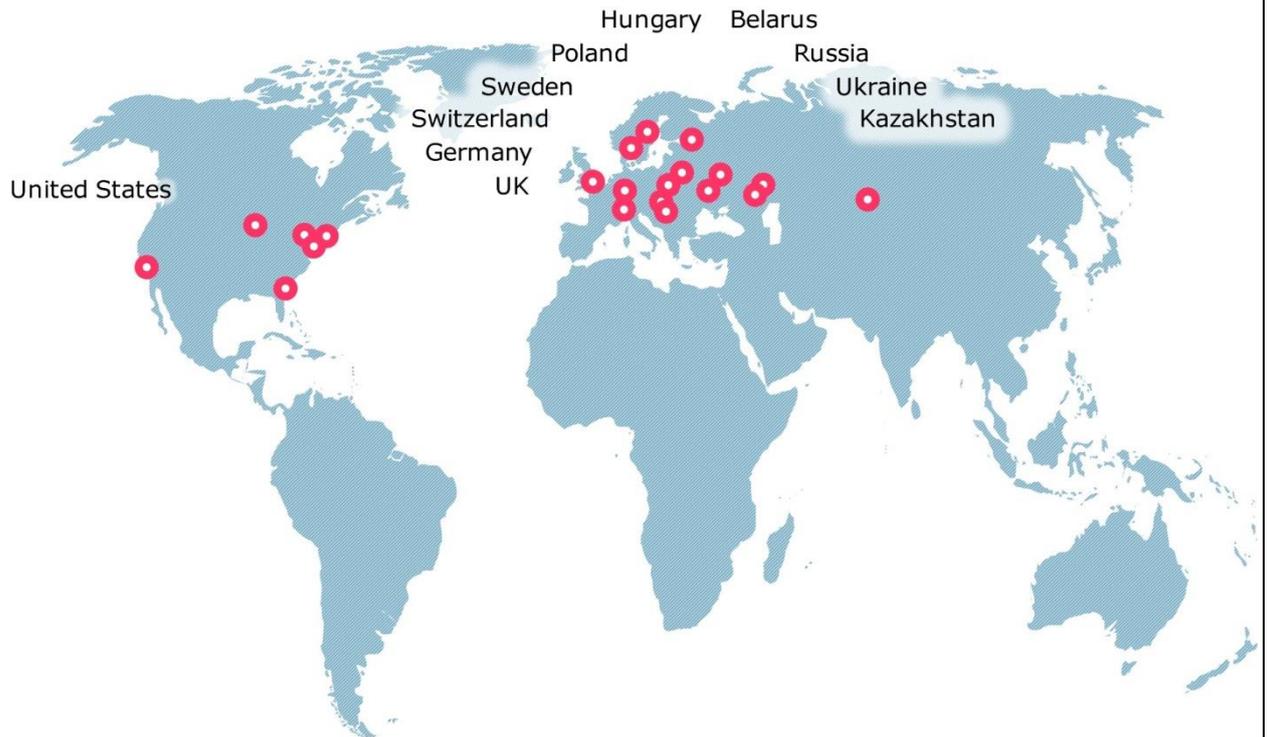
As always, we welcome you to check out our constantly updated documentation section at [Knowledge Base - EPAM Private Cloud/Documentation](#).

Table of Figures

Figure 1 – sample 'or2ds' execution response	3
Figure 2 – sample 'or2ups' execution response	3
Figure 3 – sample 'or2dels' execution response	4
Figure 4 – login page on Mobile UI	4
Figure 5 – dashboard on Mobile UI.....	5
Figure 6 – project billing report on Mobile UI	5
Figure 7 – refreshed UI Dashboard	6

Version history

Version	Date	Summary
1.0	April 27, 2013	Initial version is published



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