



Cloud Orchestration

Maestro CLI  
Admin Reference

Reference Guide

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# Contents

Preface.....	3
About this Guide .....	3
Audience.....	3
The structure of the Guide.....	3
Documentation References .....	4
1. Command Reference .....	6
1.1. Activate AWS Project .....	7
1.2. Activate CSA Project .....	9
1.3. Activate HPOO Project.....	11
1.4. Change Instance Owner.....	13
1.5. Deactivate Project .....	14
1.6. Describe Operations.....	15
1.7. Describe Permission Group .....	16
1.9. Describe Permission Group Mapping .....	17
1.10. Describe User.....	18
1.11. Disable Project Auto Configuration .....	19
1.12. Migrating an Instance to CSA.....	20
1.13. Refresh Images .....	22
1.14. Refresh Projects.....	23
1.15. Refresh User .....	24
1.16. Set Default VLAN .....	25
1.17. Set Default VLAN for Personal Projects.....	26
1.18. Set Project Contacts.....	27
1.19. Set Project Instance Quota .....	28
1.20. Set Project Volume Quota.....	29
1.21. Set Project Checkpoint Quota .....	30
1.22. Set Shapes .....	31
Table of Figures.....	32
Version History .....	32

# Preface

## About this Guide

**Maestro 2.0 Command Line Interface (CLI)** is intended to perform basic Orchestrator commands via remote command line by sending server API requests using REST API without the need to install 3rd party utilities.

*Maestro CLI* commands are based on respective commands for *Amazon AWS*. We picked a minimum required set of parameters for each command. This way we were able to uniform the commands for different service providers.

Please be informed that the described commands are available to members of *EPAM Cloud* support only.

## Audience

This guide is designed for EPAM Cloud support team members.

## The structure of the Guide

This document provides detailed reference, including purpose, use case and syntax for administrative commands given in the alphabetical order.

## Documentation References

The answers to most of your questions can be found in our [Knowledge Base](#)

You might also want to check the following EPAM Cloud Orchestrator documents:



Document Title	Contains Information on
<a href="#">Maestro CLI Developer Guide</a>	Maestro CLI client use and customization
<a href="#">Maestro CLI Setup Guide</a>	Installation of Maestro CLI Client
<a href="#">Maestro CLI Quick Start Guide</a>	Setting up a common cloud environment
<a href="#">Auto Configuration: Box Solutions</a>	Auto Configuration Service concept and usage
<a href="#">Maestro CLI Reference Guide</a>	EPAM Cloud Orchestrator Command Line Interface and the list of CLI commands, their parameters and response examples
<a href="#">Maestro API Reference Guide</a>	EPAM Cloud Orchestrator Application Programming Interface
<a href="#">Project Management Guide</a>	Hints and guidelines on customization of EPAM Orchestrator for the specific project needs
<a href="#">Resource Utilization Quotas Guide</a>	Resource Utilization Quotas and respective guidelines
<a href="#">Checkpoint Utilization Guide</a>	Concepts of checkpoints, including their utilization within Orchestrator, limitations and best practices
<a href="#">Email Notification Subscriptions Guide</a>	Notifications description, usage and customization guidelines and default values
<a href="#">EPAM Cloud Billing Guide</a>	Current billing model implemented for EPAM Cloud
<a href="#">AWS Utilization Guide</a>	Setup and utilization of Amazon Web Services-based infrastructure through EPAM Cloud Orchestrator
<a href="#">Graphical User Interface Guide</a>	EPAM Cloud Orchestration graphical user interface
<a href="#">Maestro Stacks Guide</a>	Maestro Stacks creation and utilization
<a href="#">Maestro CLI Quick Reference Card</a>	A set of all CLI commands

Document Title	Contains Information on
<a href="#">Maestro CLI Developer Guide</a>	Maestro CLI client use and customization
<a href="#">Maestro CLI Setup Guide</a>	Installation of Maestro CLI Client

## EPAM Cloud Orchestrator - Maestro CLI - Admin Reference

<a href="#">Maestro CLI Quick Start Guide</a>	Setting up a common cloud environment
<a href="#">Auto Configuration: Box Solutions</a>	Auto Configuration Service concept and usage
<a href="#">Maestro CLI Reference Guide</a>	EPAM Cloud Orchestrator Command Line Interface and the list of CLI commands, their parameters and response examples
<a href="#">Maestro API Reference Guide</a>	EPAM Cloud Orchestrator Application Programming Interface
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Please email your comments and feedback to EPAM Cloud Consulting at [SpecialEPM-CSUPConsulting@epam.com](mailto:SpecialEPM-CSUPConsulting@epam.com) to help us provide you with documentation that is as clear, correct and readable as possible

# 1. Command Reference

Most of CLI command parameters have two names - a long and a short one, designed for user convenience. You **can use** both long and short names for **different** parameters of a single command, however you **cannot** use both parameter option for the **same repeated** parameter. Please see the examples below.



**NB:** All parameter values for the commands described in scope of this document must be provided in uppercase.

Example	Result
<code>-r SAMPLE --project SAMPLE</code>	✓
<code>-i SAMPLE_1 --instance SAMPLE_2</code>	✗
<code>-i SAMPLE_1 -i SAMPLE_2</code>	✓
<code>--instance SAMPLE_1 --instance SAMPLE_2</code>	✓



**NB:** Due to the continuous improvement policy applied to Maestro CLI, some commands, parameters and results of their execution can be changed without prior notice.

### 1.1. Activate AWS Project

**Invoke:** `or2-activate-aws-project (or2actawsproj)`

Activates an Amazon Web Services project in EPAM Cloud Orchestrator.

CLI Parameters		
Parameter name	Description	Required
<code>-a, --access-key</code>	AWS access key	Yes
<code>-t, --auto-configuration-disabled</code>	Auto configuration mode	No
<code>-d, --default-aws-key-name</code>	Default AWS key name	No
<code>-k, --fake-project</code>	Indicates that the specified project is absent in PMC. The default value is FALSE	No
<code>--full</code>	Show full command output	No
<code>--help</code>	Display command help	No
<code>-P, --plain-output</code>	Use plain output view	No
<code>-p, --project</code>	PMC Project code	Yes
<code>-r, --region</code>	Virtualization region	Yes
<code>-c, --secret-key</code>	AWS secret key	Yes
<code>-s, --shape</code>	Shapes to be activated for the project. <b>For several shapes repeat the parameter:</b> <code>-s shape1 -s shape2 -s shapeN</code>	Yes

Response Elements	
Name	Description
<code>name</code>	Project name
<code>zone</code>	Availability zone
<code>shapes</code>	Enabled machine shapes
<code>primaryContacts</code>	Primary contact's email address
<code>secondayContacts</code>	Secondary contacts' email addresses
<code>instanceCreationIntervalHours</code>	Instance creation interval (hours)
<code>volumeCreationIntervalHours</code>	Volume creation interval (hours)
<code>maxVolumeSizeGb</code>	Maximum allowed volume size
<code>activationDate</code>	Project activation date

**Command Example**

The sample command activates AWS project 'TEST\_NAME' with project code 'TEST\_CODE', access key 'TEST\_KEY', secret key 'TEST\_KEY', in 'AWS-USEAST' region with shapes 'SMALL' and 'MEDIUM' available and disabled auto configuration.

```
>or2actawsproj -r AWS-USEAST -a TEST_KEY -p TEST_CODE -c TEST_
KEY -s SMALL -s MEDIUM
```

**Response Example**

```
Response:
=====
| name | zone | shapes | primaryContacts | secondaryContacts |
=====
|test_name|AWS-USEAST|[medium, small]| | |
=====
|instanceCreationIntervalHours|volumeCreationIntervalHours|maxVolumeSizeGb|
=====
| 24 | 24 | 200 |
=====
| activationDate |
=====
|Mon Jul 08 19:06:44 EEST 2013|
=====
```

Figure 1 - or2-activate-aws-project Response Example



## 1.2. Activate CSA Project

**Invoke:** `or2-activate-csa-project (or2actcsaproj)`

Activates an HP Cloud Services Automation project in EPAM Cloud Orchestrator.

CLI Parameters		
Parameter name	Description	Required
<code>-a, --auto-configuration-disabled</code>	Auto configuration mode	No
<code>-k, --fake-project</code>	Indicates that the specified project is absent in PMC. The default value is FALSE	No
<code>--help</code>	Display command help	No
<code>--full</code>	Show full command output	No
<code>-P, --plain-output</code>	Use plain output view	No
<code>-p, --project</code>	PMC Project code	Yes
<code>-r, --region</code>	Virtualization region	Yes
<code>-s, --shape</code>	Shapes to be activated for the project. <b>For several shapes repeat the parameter:</b> <code>-s shape1 -s shape2 -s shapeN</code>	Yes

Response Elements	
Name	Description
<code>name</code>	Project name
<code>zone</code>	Availability zone
<code>shapes</code>	Enabled machine shapes
<code>primaryContacts</code>	Primary contact's email address
<code>secondayContacts</code>	Secondary contacts' email addresses
<code>instanceCreationIntervalHours</code>	Instance creation interval (hours)
<code>volumeCreationIntervalHours</code>	Volume creation interval (hours)
<code>maxVolumeSizeGb</code>	Maximum allowed volume size
<code>activationDate</code>	Project activation date

**Command Example**

The sample command activates project 'CSA-TEST', in 'EPAM-CSA' region with shapes 'SMALL' and 'MEDIUM' available and disabled auto configuration.

```
>or2-activate-csa-project -p CSA-TEST -s small -s medium --region
EPAM-CSA
```

**Response Example**

```
Response :
=====
! name | zone | shapes |primaryContacts|secondaryContacts|
=====
!CSA-TEST!EPAM-CSA![medium, small]! | |
=====
instanceCreationIntervalHours!volumeCreationIntervalHours!maxVolumeSizeGb!
=====
24 | 24 | 200 |
=====
activationDate |
=====
Thu Jul 25 17:10:07 EEST 2013!
=====
```

Figure 2 - or2-activate-csa-project Response Example

### 1.3. Activate HPOO Project

**Invoke:** `or2-activate-hpoo-project (or2acthpproj)`

Activates an HPOO project in EPAM Cloud Orchestrator.

CLI Parameters		
Parameter name	Description	Required
<code>-a, --auto-configuration-disabled</code>	Auto configuration mode	No
<code>-k, --fake-project</code>	Indicates that the specified project is absent in PMC. The default value is FALSE	No
<code>--help</code>	Display Command help	No
<code>--full</code>	Show full command output	No
<code>-P, --plain-output</code>	Use plain output view	No
<code>-p, --project</code>	PMC Project code	Yes
<code>-r, --region</code>	Virtualization region	Yes
<code>-s, --shape</code>	Shapes to be activated for the project. <b>For several shapes repeat the parameter:</b> <code>-s shape1 -s shape2 -s shapeN</code>	Yes
<code>-k, --fake-project</code>	Indicates that the specified project is absent in PMC. The default value is FALSE	No



**NB:** If you don't specify any shapes to activate, a default set of 'SMALL', 'MEDIUM' and 'LARGE' will be activated.

Response Elements	
Name	Description
<code>name</code>	Project name
<code>zone</code>	Availability zone
<code>shapes</code>	Enabled machine shapes
<code>primaryContacts</code>	Primary contact's email address
<code>secondayContacts</code>	Secondary contacts' email addresses
<code>instanceCreationIntervalHours</code>	Instance creation interval (hours)
<code>volumeCreationIntervalHours</code>	Volume creation interval (hours)
<code>maxVolumeSizeGb</code>	Maximum allowed volume size
<code>activationDate</code>	Project activation date

### Command Example

The sample command activates an HPOO project 'TEST\_PROJECT' with project code 'TEST\_PROJECT\_CODE' in 'EPAM-SAMPLE' region with shapes 'SMALL', 'MEDIUM', and 'LARGE' with auto configuration disabled.

```
>or2acthpproj -s SMALL -s MEDIUM -s LARGE -p TEST-PROJECT -r EPAM-
SAMPLE -a
```

### Response Example

```
Response :
=====
| name | zone | shapes | primaryContacts | secondaryContacts |
|-----|-----|-----|-----|-----|
| test-project | EPAM-SAMPLE | [medium, large, small] | | |
|-----|-----|-----|-----|-----|
| instanceCreationIntervalHours | volumeCreationIntervalHours | maxVolumeSizeGb |
|-----|-----|-----|-----|-----|
| 24 | 24 | 200 |
|-----|-----|-----|-----|-----|
| activationDate |
|-----|-----|
| Mon Jul 08 18:56:32 EEST 2013 |
|-----|-----|
```

Figure 3 - or2-activate-hpoo-project Response Example

## 1.4. Change Instance Owner

### Invoke: or2-change-owner (or2chow)

Changes or sets an owner of the specified instance

CLI Parameters		
Parameter name	Description	Required
<b>-e, --email</b>	New owner's email	Yes
<b>--full</b>	Show full command output	No
<b>--help</b>	Show command help	No
<b>-i, --instance</b>	Instance ID, <b>case sensitive</b>	Yes
<b>-n, --name</b>	New owner's name	No
<b>-P, --plain-output</b>	Use plain output view	No
<b>-p, --project</b>	PMC Project code	Yes
<b>-r, --region</b>	Virtualization region	Yes

Response Elements	
Name	Description
<b>instanceID</b>	Service provider specific instance ID
<b>dnsName</b>	DNS name assigned to the instance
<b>privateIP</b>	Private IP assigned to the instance
<b>state</b>	State of the instance
<b>guestOS</b>	Instance OS
<b>owner</b>	Owner of the instance
<b>image</b>	Template used to launch the instance (optional)
<b>shape</b>	Hardware shape of the instance

### Command Example

The sample command sets user John Doe as owner of instance SAMPLE,

```
or2chow -e John_Doe@epam.com -i SAMPLE -n "John Doe" -m "John Doe"
-p EPM-SAMPLE -r EPAM-SAMPLE
```

### Response Example

```
Response:
=====
instanceID | dnsName | privateIP | state | guestOS | owner | image | shape |
-----|-----|-----|-----|-----|-----|-----|-----|
SAMPLE | | | stopped | Ubuntu Linux <32-bit> | John Doe | Ubuntu10.04_32-bit | LARGE |
=====
```

Figure 4 - or2-change-owner Response Example

## 1.5. Deactivate Project

### Invoke: `or2-deactivate-project (or2deactp)`

Removes a specified project from the specified region of EPAM Cloud.

CLI Parameters		
Parameter name	Description	Required
<code>--full</code>	Show full command output	No
<code>-P, --plain-output</code>	Use plain output view	No
<code>-p, --project</code>	PMC Project code	Yes
<code>-r, --region</code>	Virtualization region	Yes
<code>--help</code>	Display command help	No

### Command Example

The sample command deactivates project SAM-PLE in EPAM-SAMPLE region.

```
>or2deactp -p SAM-PLE -r EPAM-SAMPLE
```

### Response Example

In case of successful command execution, Orchestrator returns the following message:

```
'or2-deactivate-project command is successfully invoked'
```

## 1.6. Describe Operations

### Invoke: or2-describe-operation (or2dop)

Shows a list of available operations within EPAM Cloud Orchestrator.

CLI Parameters		
Parameter name	Description	Required
--full	Show full command output	No
--help	Display Command Help	No
-n, --name	Permission group name	Yes
-P, --plain-output	Use plain output view	No
-p, --project	PMC Project code	Yes

Response Elements	
Name	Description
operation	Operations available for the project

### Command Example

The sample command returns the full list available operations

```
>or2dop
```

### Response Example

```

Response :
-----
operation
-----
AUDIT
DESCRIBE_CHECKPOINT
DESCRIBE_IMAGES
DESCRIBE_INSTANCES
DESCRIBE_INSTANCE_PROPERTIES
DESCRIBE_VOLUME_PROPERTIES
DESCRIBE_REGIONS
DESCRIBE_SHAPES
DESCRIBE_ULANS
DESCRIBE_STACKS
DESCRIBE_TEMPLATES
DESCRIBE_VOLUMES
GET_STACK_PARAMETERS
READ_TEMPLATE
REPORT
DESCRIBE_TAG
DESCRIBE_KEY_PAIR
DESCRIBE_SCRIPTS
DESCRIBE_ZABBIX_TEMPLATES
DESCRIBE_PROJECTS
ATTACH_VOLUME
DETACH_VOLUME
REATTACH_VOLUME
RESIZE_VOLUME
GO_TO_CHECKPOINT
REUERT_TO_CHECKPOINT
REBOOT_INSTANCES
START_INSTANCES
STOP_INSTANCES
SUSPEND_INSTANCES
DELETE_KEY_PAIR
CREATE_KEY_PAIR
CREATE_USER_SCHEDULE
DELETE_USER_SCHEDULE
DESCRIBE_USER_SCHEDULES
USER_SCHEDULE_ADD_INSTANCES
USER_SCHEDULE_REMOVE_INSTANCES
SUBSCRIBE
UPLOAD_TEMPLATE
SET_TAG
DELETE_TAG
UPLOAD_SCRIPT
UPLOAD_ZABBIX_TEMPLATE
CREATE_ATTACH_VOLUME
CREATE_CHECKPOINT
CREATE_IMAGE
RUN_INSTANCES
RUN_STACK
SET_INSTANCE_PROPERTIES
SET_VOLUME_PROPERTIES
MOVE_INSTANCE_TO_ULAN
DELETE_CHECKPOINT
DELETE_INSTANCE_PROPERTIES
DELETE_VOLUME_PROPERTIES
DELETE_VOLUME
DELETE_IMAGE
DELETE_STACKS
TERMINATE_INSTANCES
DELETE_SCRIPT
DELETE_ZABBIX_TEMPLATE
DELETE_TEMPLATE
GET_CONSOLE
ALL_REPORTS_SEND_TO_EMAIL
SUBSCRIBE_MANAGEMENT
UPLOAD_ZABBIX_TEMPLATE_PUBLIC
UPDATE_PROJECT_PRICE_QUOTA
DELETE_ZABBIX_TEMPLATE_PUBLIC
START_MONITORING
GET_PROJECT_PRICE_QUOTA
STOP_MONITORING
ACTIUATE_PROJECT
REFRESH_PROJECT
SET_SHAPES
CREATE_PERMISSION_GROUP
DELETE_PERMISSION_GROUP
DESCRIBE_PERMISSION_GROUP
ADD_PERMISSION_PMC_ROLE_MAPPING
ADD_PERMISSION_USER_MAPPING
DELETE_PERMISSION_PMC_ROLE_MAPPING
DELETE_USER_MAPPING
DESCRIBE_OPERATION
CHANGE_INSTANCE_OWNER
REFRESH_USERS
ADD_USER
ENABLE_AUTO_CONFIGURATION
SET_PROJECT_CONTACTS
SET_PROJECT_INSTANCE_QUOTA
-----

```

Figure 5 - or2-describe-operations Response Example

## 1.7. Describe Permission Group

**Invoke:** `or2-describe-permission-group (or2dpgr)`

Describes available permission groups

CLI Parameters		
Parameter name	Description	Required
<code>--full</code>	Show full command output	No
<code>--help</code>	Display command help	No
<code>-n, --name</code>	Permission group name	Yes
<code>-P, --plain-output</code>	Use plain output view	No
<code>-p, --project</code>	PMC Project code	Yes

### Command Example

The sample command describes all available permission groups

```
>or2dpgr
```

### Response Example

```

Response :
=====
|          name          |operations|project|
=====
|      STORAGE          |         6|      |
|          READ         |        22|      |
|    UPSA-REPORT        |         2|      |
|           UM          |        11|      |
|          META         |        12|      |
|    NEW_RESOURCES      |         8|      |
|    KILL_RESOURCES     |        10|      |
|    ALL_OPERATIONS     |        67|      |
|      SUPER_USER       |        67|      |
|ALL_SYSTEM_OPERATIONS|         19|      |
=====
    
```

Figure 6 - or2-describe-permission-group Response Example



## 1.9. Describe Permission Group Mapping

**Invoke:** `or2-describe-permission-group-mapping (or2despgm)`

Shows permission groups for the specified user.

CLI Parameters		
Parameter name	Description	Required
<code>-e, --email</code>	User's email	Yes
<code>--full</code>	Show full command output	No
<code>--help</code>	Display command help	No
<code>-P, --plain-output</code>	Use plain output view	No
<code>-p, --project</code>	PMC Project Code	No
<code>-r, --roleId</code>	PMC role ID	No

Response Elements	
Name	Description
<code>project</code>	A project the user is assigned to
<code>permissionGroupNames</code>	User's permission groups
<code>projects</code>	List of projects the user is assigned to

### Command Example

The sample command returns information about user with email `john_doe@epam.com`

```
>or2despgm -e john_doe@epam.com
```

### Response Example

```
Response :
=====
!project!                permissionGroupNames      !
=====
!                !ALL_OPERATIONS, ALL_SYSTEM_OPERATIONS, SUPER_USER!
=====
```

Figure 7 - `or2-describe-permission-group` Response Example

### 1.10. Describe User

**Invoke: or2-describe-user (or2du)**

Shows name, email and the list of projects for the specified user.

CLI Parameters		
Parameter name	Description	Required
-e, --email	User's email	Yes
--full	Show full command output	No
--help	Display command help	No
-P, --plain-output	Use plain output view	No

Response Elements	
Name	Description
fullName	User's name
email	User's email address
projects	List of projects the user is assigned to

**Command Example**

The sample command returns information about user with email john\_doe@epam.com

```
>or2du -e john_doe@epam.com
```

**Response Example**

```

Response :
=====
! fullName !      email      !           projects           !
=====
!John Doe  !John_Doe@epam.com !           [EPM-SIGN]           !
=====
    
```

Figure 8 - or2-describe-user Response Example

### 1.11. Disable Project Auto Configuration

**Invoke:** `or2-disable-project-autoconfiguration (or2dispaut)`

Enables or disables auto configuration capabilities for the specified project.

CLI Parameters		
Parameter name	Description	Required
<code>-e, --enable</code>	Include this parameter to enable auto configuration. Skip the parameter to disable it.	No
<code>--full</code>	Show full command output	No
<code>--help</code>	Display command help	No
<code>-P, --plain-output</code>	Use plain output view	No
<code>-p, --project</code>	PMC Project code	Yes
<code>-r, --region</code>	Virtualization region	Yes

Response Elements	
Name	Description
<code>name</code>	PMC Project code
<code>zone</code>	Virtualization region
<code>autoConfigurationDisabled</code>	Auto configuration status ('true'=disabled, 'false'=enabled)

#### Command Example

The sample enables auto configuration for project SAM-PLE in the EPAM-SAMPLE region.

```
>or2-disable-project-autoconfiguration -e -p SAM-PLE -r EPAM-SAMPLE
```

#### Response Example

```

Response :

=====
| name | zone | autoConfigurationDisabled |
=====
|SAM-PLE|EPAM-SAMPLE| false |
=====
    
```

Figure 9 - or2-disable-project-autoconfiguration Response Example

## 1.12. Migrating an Instance to CSA

**Invoke: or2-migrate-csa-instance (or2migcsains)**

Moves an instance under EPAM Orchestrator control to a CSA region

CLI Parameters		
Parameter name	Description	Required
<b>-m, --image</b>	Machine Image	Yes
<b>--full</b>	Show full command output	No
<b>--help</b>	Display command help	No
<b>-P, --plain-output</b>	Use plain output view	No
<b>-p, --project</b>	PMC Project code	Yes
<b>-r, --region</b>	Virtualization region	Yes
<b>-i, --instance</b>	Instance ID	Yes
<b>-g, --migration date</b>	Migration Date in yyy-MM-dd'T'HH format	Yes
<b>-s, --shape</b>	Instance Type	Yes

Response Elements	
Name	Description
<b>instanceID</b>	The ID of the migrated instance
<b>name</b>	Instance Name in orchestration
<b>state</b>	the state of the migrated instance
<b>migrationDate</b>	the date when the migration was performed

**Response Example**

```

Response :
=====
instanceId | name           | state   | migrationDate |
=====
i-8fc12c7a | EUBYMINS207FT1 | starting | 2014-05-27T00:00:00+00:00 |
=====
    
```

Figure 10 - or2-migrate-csa-instance Response Example

### 1.13. Moving an Instance to Another Project

#### Invoke: `or2-move-to-project (or2mtp)`

Moves an instance from one project into another

CLI Parameters		
Parameter name	Description	Required
<code>-i, --instance</code>	The ID of the instance to migrate	Yes
<code>--full</code>	Show full command output	No
<code>--help</code>	Display command help	No
<code>-P, --plain-output</code>	Use plain output view	No
<code>-p, --project</code>	Destination project	Yes

The VM moved from one project to another, can have any state.

The command response includes the message on the command success or failure

#### Command Example

The sample enables auto configuration for project SAM-PLA in the EPAM-SAMPLE region.

```
> or2mtp -i EVBYMINSD000 -p sample-pro
```

#### Response Example

**Response: Move instance to project successfully invoked.**

*Figure 11 - or2-move-to-project Response Example*

## 1.14. Refresh Images

### Invoke: `or2-refresh-images (or2refim)`

Refreshes the list of machine images in *EPAM Cloud Orchestrator*

CLI Parameters		
Parameter name	Description	Required
<code>--full</code>	Show full command output	No
<code>--help</code>	Display command help	No
<code>-P, --plain-output</code>	Use plain output view	No
<code>-p, --project</code>	PMC Project code <b>If not specified, the change will be available to all projects</b>	No
<code>-r, --region</code>	Virtualization region	Yes

### Command Example

The command refreshes the list of machine images for the EPAM-SAMPLE region

```
>or2refim -r EPAM-SAMPLE
```

### Response Example

In case of successful command execution, Orchestrator returns the following message:

```
'or2-refresh-images command is successfully invoked'
```

## 1.15. Refresh Projects

### Invoke: `or2-refresh-projects (or2refp)`

Refreshes the status of the specified PMC project in *EPAM Cloud Orchestrator*

CLI Parameters		
Parameter name	Description	Required
<code>--full</code>	Show full command output	No
<code>--help</code>	Display command help	No
<code>-P, --plain-output</code>	Use plain output view	No
<code>-p, --project</code>	PMC Project code	Yes
<code>-r, --region</code>	Virtualization region	Yes

### Command Example

The command refreshes the status of project EPM-SAMPLE in region EPAM-SAMPLE

```
>or2refp -p EPM-SAMPLE -r EPAM-SAMPLE
```

### Response Example

In case of successful command execution, Orchestrator returns the following message:

```
'or2-refresh-projects command is successfully invoked'
```

## 1.16. Refresh User

### Invoke: `or2-refresh-user (or2refu)`

Refreshes the status of the specified user in *EPAM Cloud Orchestrator*

CLI Parameters		
Parameter name	Description	Required
<code>-e, --email</code>	User's email	Yes
<code>--full</code>	Show full command output	No
<code>--help</code>	Display command help	No
<code>-P, --plain-output</code>	Use plain output view	No

### Command Example

The command refreshes the status of user John Doe

```
>or2refu -e John_Doe@epam.com
```

### Response Example

In case of successful command execution, Orchestrator returns the following message: **'The user with email john\_doe@epam.com was successfully refreshed'**



## 1.17. Set Default VLAN

### Invoke: `or2-set-default-vlan (or2setdvln)`

Sets a default VLAN for the specified PMC project and region.

CLI Parameters		
Parameter name	Description	Required
<code>--full</code>	Show full command output	No
<code>--help</code>	Display command help	No
<code>-P, --plain-output</code>	Use plain output view	No
<code>-p, --project</code>	PMC Project code	Yes
<code>-r, --region</code>	Virtualization region	Yes
<code>-v, --vlanName</code>	VLAN to be assigned as default	Yes

### Command Example

The sample command assigns VLAN 'SAMPLE' as default for project SAM-PLE in the EPAM-SAMPLE region.

```
>or2-set-default-vlan -v SAMPLE -p SAM-PLE -r EPAM-SAMPLE
```

### Response Example

In case of successful command execution, Orchestrator returns the following message:

```
'Response: or2-set-default-vlan command is successfully invoked'
```

## 1.18. Set Default VLAN for Personal Projects

**Invoke:** `or2-set-default-vlan-for-personal-project (or2setdvlnp)`

Sets a default VLAN for personal projects in the specified region.

CLI Parameters		
Parameter name	Description	Required
<code>--full</code>	Show full command output	No
<code>--help</code>	Display command help	No
<code>-P, --plain-output</code>	Use plain output view	No
<code>-r, --region</code>	Virtualization region	Yes
<code>-v, --vlanName</code>	VLAN to be assigned as default	Yes

### Command Example

The sample command assigns VLAN 'SAMPLE' as default for personal projects in the EPAM-SAMPLE region.

```
>or2-set-default-vlan-for-personal-project -v SAMPLE -r EPAM-SAMPLE
```

### Response Example

In case of successful command execution, Orchestrator returns the following message:

```
'Response: or2-set-default-vlan-for-personal-projects command is successfully invoked'
```

### 1.19. Set Project Contacts

**Invoke: or2-set-project-contacts (or2setpc)**

Sets primary and secondary contacts for the specified PMC project in *EPAM Cloud Orchestrator*.

CLI Parameters		
Parameter name	Description	Required
<b>-c, --contacts</b>	User emails (name@epam.com) to be assigned as project contacts <b>For several contacts repeat the parameter:</b> <code>-c contact 1 -c contact 2, -c contact n</code>	Yes
<b>--full</b>	Show full command output	No
<b>--help</b>	Display command help	No
<b>-o, --override</b>	Override existing contacts	No
<b>-P, --plain-output</b>	Use plain output view	No
<b>-p, --project</b>	PMC Project code	Yes
<b>-r, --region</b>	Virtualization region	Yes
<b>-t, --type</b>	Project contact type <b>Acceptable values:</b> <code>primary/secondary</code>	Yes



**NB:** If you include the '-o/--override' option, all previously assigned contacts for the project, not included in the command as parameters will be removed.

Response Elements	
Name	Description
<b>type</b>	Contact type (primary/secondary)
<b>contact</b>	Contact's email

**Command Example**

The sample command sets user with email Jphn\_Doe@epam.com as a primary contact for project SAM-PLA in the EPAM-SAMPLE region.

```
>or2-set-project-contacts -c John_Doe@epam.com -t PRIMARY -p SAM-PLA
-r EPAM-SAMPLE
```

**Response Example**



Figure 12 - or2-set-project-contacts Response Example

## 1.20. Set Project Instance Quota

### Invoke: `or2-set-project-instance-quota (or2setpiq)`

Sets an instance creation limit for the specified project, region, and time interval.

CLI Parameters		
Parameter name	Description	Required
<code>-c, --count</code>	Number of instances that can be created during the specified time interval	Yes
<code>--full</code>	Show full command output	No
<code>--help</code>	Display command help	No
<code>-P, --plain-output</code>	Use plain output view	No
<code>-p, --project</code>	PMC Project code	Yes
<code>-r, --region</code>	Virtualization region	Yes
<code>-t, --time</code>	Time interval the quota applies to (hours)	Yes

Response Elements	
Name	Description
<code>instanceCreationIntervalCount</code>	Number of instances allowed
<code>instanceCreationIntervalHours</code>	Time interval that applies

### Command Example

The sample command sets a 200 instance daily quota for project SAM-PLE in the EPAM-SAMPLE region.

```
>or2-set-project-instance-quota -c 200 -t 24 -p SAM-PLE -r EPAM-SAMPLE
```

### Response Example

```
Response :
=====
!instanceCreationIntervalCount!instanceCreationIntervalHours!
!                200                !                24                !
=====
```

Figure 13 - `or2-set-project-instance-quota` Response Example

### 1.21. Set Project Volume Quota

**Invoke:** `or2-set-project-volume-quota (or2setpvq)`

Sets a volume creation limit for the specified project, region, and time interval.

CLI Parameters		
Parameter name	Description	Required
<b>-c, --count</b>	Number of volumes that can created during the specified time interval	Yes
<b>--full</b>	Show full command output	No
<b>-s, --maxSize</b>	Maximum volume size in GB	Yes
<b>-P, --plain-output</b>	Use plain output view	No
<b>-p, --project</b>	PMC Project code	Yes
<b>-r, --region</b>	Virtualization region	Yes
<b>-t, --time</b>	Time interval the quota applies to (hours)	Yes

Response Elements	
Name	Description
<code>instanceCreationIntervalCount</code>	Number of instances allowed
<code>instanceCreationIntervalHours</code>	Time interval that applies

#### Command Example

The sample command sets a 100 volumes daily quota for project SAM-PLE in the EPAM-SAMPLE region. The set maximum size is 200GB.

```
>or2-set-project-volume-quota -c 100 -t 24 -s 200 -p SAM-PLE -r
EPAM-SAMPLE
```

#### Response Example

```
Response :
=====
!volumeCreationIntervalCount!volumeCreationIntervalHours!maxVolumeSizeGb!
!           100           !           24           !           200           !
=====
```

Figure 14 - `or2-set-project-volume-quota` Response Example

## 1.22. Set Project Checkpoint Quota

### Invoke: `or2-set-project-checkpoint-quota (or2setpchq)`

Sets a checkpoint creation limit for the specified project in the specified region.

CLI Parameters		
Parameter name	Description	Required
<code>--full</code>	Show full command output	No
<code>--help</code>	Display command help	No
<code>-m, --maxCount</code>	Maximum allowed number of checkpoints	Yes
<code>-P, --plain-output</code>	Use plain output view	No
<code>-p, --project</code>	PMC Project code	Yes
<code>-r, --region</code>	Virtualization region	Yes

### Command Example

The sample command sets a 5 checkpoints limit for project SAM-PLA in the EPAM-SAMPLE region.

```
>or2-set-project-checkpoint-quota -m 5 -p SAM-PLA -r EPAM-SAMPLE
```

### Response Example

In case of successful command execution, Orchestrator returns the following message:  
'`or2-set-project-checkpoint-quota command is successfully invoked`'

### 1.23. Set Shapes

**Invoke:** `or2-set-shapes (or2setsh)`

Sets instance shapes available for the project.

CLI Parameters		
Parameter name	Description	Required
<code>--full</code>	Show full command output	No
<code>--help</code>	Display command help	No
<code>-p, --project-code</code>	PMC Project code	Yes
<code>-r, --region</code>	Virtualization region	Yes
<code>-s, --shapes</code>	Shapes to be activated for the project. For several shapes repeat the parameter: <code>-s shape1 -s shape2 -s shapeN</code>	Yes
<code>-o, --override</code>	Override existing shapes. In	No



**NB:** If you include the '`-o/--override`' option, all previously activated shapes, not included in the command as parameters will be removed.

Response Elements	
Name	Description
<code>name</code>	Shape name
<code>aws-type</code>	AWS shape indication
<code>cpu</code>	Shape CPU count
<code>Memory_MB</code>	Shape memory in MB

#### Command Example

The sample command activates MICRO shapes for project SAM-PLE in the EPAM-SAMPLE region.

```
>or2-set-shapes --project SAM-PLE --region EPAM-SAMPLE --shapes MICRO
```

#### Response Example

The response contains all shapes, currently activated for the project

```
Response :
=====
| name | awsType |cpu|memoryMb|
=====
|MEDIUM|m1.medium| 2 | 3840 |
|SMALL |m1.small | 1 | 1740 |
|LARGE |m1.large | 2 | 7680 |
|MICRO |t1.micro | 1 | 512 |
=====
```

Figure 15 - or2-set-shapes Response Example

## Table of Figures

Figure 1 - *or2-activate-aws-project Response Example*..... 8  
 Figure 2 - *or2-activate-csa-project Response Example*..... 10  
 Figure 3 - *or2-activate-hpoo-project Response Example* ..... 12  
 Figure 4 - *or2-change-owner Response Example* ..... 13  
 Figure 5 - *or2-describe-operations Response Example* ..... 15  
 Figure 6 - *or2-describe-permission-group Response Example* ..... 16  
 Figure 7 - *or2-describe-permission-group Response Example* ..... 17  
 Figure 8 - *or2-describe-user Response Example* ..... 18  
 Figure 9 - *or2-disable-project-autoconfiguration Response Example* ..... 19  
 Figure 10 - *or2-migrate-csa-instance Response Example* ..... 20  
 Figure 11 - *or2-move-to-project Response Example*..... 21  
 Figure 12 - *or2-set-project-contacts Response Example* ..... 27  
 Figure 13 - *or2-set-project-instance-quota Response Example* ..... 28  
 Figure 14 - *or2-set-project-volume-quota Response Example* ..... 29  
 Figure 15 - *or2-set-shapes Response Example* ..... 31

## Version History

Version	Date	Summary
1.0	July 09, 2013	First version is published
1.1	July 17, 2013	Missing commands, response elements, and screenshots are added.
2.0	August 3, 2013	New commands and parameters are added Existing commands and parameters are heavily revised
2.01	November 28, 2013	Added Preface Documentation links are updated
2.02	January 31, 2014	Updated <i>or2-activate-hpoo-project</i> command
2.1	April 26, 2014	Updated parameters for all the commands
2.2	June 21, 2014	<i>or2-migrate-csa-instance</i> command added <i>or2-move-to-project</i> command added
2.3	November 1, 2014	Documentation reference updated
2.3.2	March 21, 2015	Updated regions-related info





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