CumuLogic

CumuLogic SQL API Guide

August 2014

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1. Entity: SQL Instance

1.1 Create SQL Instance

Http Method	URL	Description
POST	/sql/api/v1/sqlinstance	Creates a new SQL instance

Request Parameters:

Attribute	Type	Description	Required
<action>	String	Action name “**create**”	Yes
name	String	Unique instance name.	Yes
description	String	Description about instance	No
engineId	Integer	Unique ID of existing engine. **Ex.** "engine": {"id": "1"}	Yes
nodes	Integer	Number of instances to be provisioned	Yes
targetCloudId	Integer	Unique ID of created target cloud. **Ex.** "targetCloud": {"id": "1"}	Yes
instanceTypeId	Integer	Unique ID of instance type. **Ex.** "instanceType": {"id": "1"} If target cloud is a VM pool, this parameter is not mandatory.	Yes
availabilityZone	String	This parameter holds the value of the availability zone in which the instances is to be launched. If target cloud is a VM pool, then this parameter is not mandatory.	Yes
multiAZ	Integer	Mandatory when setting up Multi AZ redundant node Valid Values: multiAZ=0 for No OR mulitAZ=1 for yes Supported only for Percona engine wherein (In case this flag is set, the parameters “multiAZAvailabilityZone” and “multiAZAvailabilityZoneName” are mandatory)	Yes
multiAZAvailabilityZone	String	Second availability zone in which the secondary node of the Percona Multi AZ instances is to be launched This Is mandatory only if multiAZ value is 1.	No
multiAZAvailabilityZone Name	String	Second Avaiability zone name in which the secondary node of the Percona Multi AZ instances is to be launched	No

		This Is mandatory only if multiAZ value is 1.	
multiAZInstanceType	Integer	Unique ID of instance type for secondary avaiability zone Ex. "instanceType": {"id": "1"} If target cloud is a VM pool, then this parameter is not mandatory.	No
serviceTag	String	Environment type Tag Preferred values: Testing, Development, Production, Staging.	Yes
serviceAccessGroup	Integer	Unique ID of existing access group. Usage: "serviceAccessGroup" : {"id": "123"}	No
shema	String	Database name.	Yes
masterUserName	String	Database user name.	Yes
masterUserPassword	String	Database User Password.	Yes
characterSet	String	Character set format Preferred value: UTF-8	No
Port	Integer	Database default port 3036	Yes
parameterGroup	Integer	Unique ID of existing parameter group Usage: " parameterGroup" : {"id": "123"}	No
storageSize	Integer	The size of the volume. Valid values: 10 to 1024GB If target cloud is a VM pool, then this parameter is not mandatory.	Yes
isBackupPreferenceSet	Integer	This flag needs to be set in case automated backup snapshots of the instance being launched need to be triggered Set value as 0 to disable backups Set vaue as 1 to enable backups (In case this flag is set, the parameters “backupRetentionPeriod” and “backupStartTime” are mandatory)	Yes
backupRetentionPeriod	Integer	This parameter defines the time period for which the backup snspshots are to be retained. Range: 1 to 50 days	No
backupStartTime	String	This parameter defines the Start time for triggering the automated backup snapshots cycle (Automated Backup snapshot frequency defined under Global Variables) Format: HH:MM	No
isDefault	Boolean	Set value as ‘true’ if you wish to add the defaults else set value as ‘false’	Yes
isProvision	Boolean	Set value as ‘true’ if you wish to provision the instance else set value as ‘false’ if you wish to ad the instance but in the terminated state	Yes

Example Request:

```
curl -i "http://localhost:8080/sql/api/v1/sqlinstance" -X POST -H "CL-AUTH-TOKEN:dd660ba2-7ce2-4e46-99c1-a3335f66b712" -d'{"create":{"sqlInstance":{"name":"Server1","description":"Server1","nodes":1,"schema":"demo","masterUserName":"demouser","masterUserPassword":"demouser","port":3306,"serviceTag":"Testing","characterSet":"UTF-8","engine":{"id":3},"targetCloud":{"id":1},"storageSize":20,"availabilityZone":"us-east1","instanceType":{"id":1},"isBackupPreferenceSet":1,"backupRetentionPeriod":"4","backupStartTime":"10:00","multiAZ":1,"multiAZInstanceType":{"id":1},"multiAZAvailabilityZoneName":"US-East1","multiAZAvailabilityZone":"us-east1"},"isDefault":false,"isProvision":true}}'
```

Example Response:

```
{"success":true,"errors":{},"response":{"instance":[{"port":3306,"autoMinorEnabled":null,"backupRetentionPeriod":4,"multiAZ":1,"backupStartTime":"10:00","isbackupPreferenceSet":1,"isInProgress":2,"noOfSnapshots":0,"instancetype":{"id":1,"instanceTypeId":"t1.micro","name":"XSmall"},"id":4,"schema":"demo","description":"Server1","masterPassword":"demouser","name":"Server1","availabilityZone":"us-east1","availabilityZoneName":"US-East1","createdDate":"2014-07-08 09:18:38","masterUserName":"demouser","accessGroupName":null,"serviceaccessgroup":{"id":5393,"name":"default_Percona-Server_831"},"targetcloud":{"id":1,"name":"Amazonian","iaasProviderId":1},"characterSet":"UTF-8","status":2,"engine":{"id":3,"engineName":"Percona-Server","version":"5.5"},"servicetag":1,"multiAvailabilityZone":"us-east1","isReplica":0,"environment":"Testing","createdBy":2,"nodes":2,"multiAZAvailabilityZoneName":"US-East1","storageSize":20,"multiAzInstanceType":{"id":1,"instanceTypeId":null,"name":null},"noOfReplicas":0}]}}
```

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413), itemNotFound (404), serverCapacityUnavailable (503)
Custom Error Response Code(s):	queryFailed(1009), invalidParameterValue(1013), invalidAction(1001), entityAlreadyExist(1011), invalidRequest(1000)

1.2 Update SQL Instance

Http Method	URI	Description
PUT	/sql/api/v1/sqlinstance/<id>	Updates the existing SQL instance (Terminated)

Request Parameters:

Attribute	Type	Description	Required
<id>	Integer	Unique database Instance ID	Yes
name	String	Unique instance name.	Yes
description	String	Description about instance	No
engineId	Integer	Unique ID of existing engine. **Ex.** "engine": {"id": "1"}	Yes
nodes	Integer	Number of instances to be provisioned	Yes
targetCloudId	Integer	Unique ID of created target cloud. **Ex.** "targetCloud": {"id": "1"}	Yes
instanceTypeId	Integer	Unique ID of instance type. **Ex.** "instanceType": {"id": "1"} If target cloud is a VM pool, then this parameter is not mandatory.	Yes
availabilityZone	String	This parameter holds the value of the avaiability zone in which the instances is to be launched. If target cloud is a VM pool, then this parameter is not mandatory.	Yes
multiAZ	Integer	Mandatory when setting up Multi AZ redundant node Valid Values: multiAZ=0 for No OR mulitAZ=1 for yes Supported only for **Percona** engine wherein (In case this flag is set, the parameters “multiAZAvailabilityZone” and “multiAZAvailabilityZoneName” are mandatory)	Yes
multiAZAvailabilityZone	String	Second Avaiability zone in which the secondary node of the Percona Multi AZ instances is to be launched This is mandatory only if **multiAZ** value is 1.	No
multiAZAvailabilityZoneName	String	Second Avaiability zone name in which the secondary node of the Percona Multi	No

		AZ instance is to be launched This is mandatory only if **multiAZ** value is 1.	
multiAZInstanceType	Integer	Unique ID of instance type for secondary availability zone **Ex.** "instanceType": {"id": "1"} If target cloud is a VM pool, then this parameter is not mandatory.	No
serviceTag	String	Environment type Tag Preferred values: Testing, Development, Production, Staging.	Yes
serviceAccessGroup	Integer	Unique ID of existing access group. Usage: "serviceAccessGroup" : {"id": "123"}	No
shema	String	Database name.	Yes
masterUserName	String	Database user name.	Yes
masterUserPassword	String	Database User Password.	Yes
characterSet	String	Character set format Preferred value: UTF-8	No
Port	Integer	Database default port 3036	Yes
parameterGroup	Integer	Unique ID of existing parameter group Usage: " parameterGroup" : {"id": "123"}	No
storageSize	Integer	The size of the volume. Valid values: 10 to 1024GB If target cloud is a VM pool, then this parameter is not mandatory.	Yes
isBackupPreferenceSet	Integer	This flag needs to be set in case automated backup snapshots of the instance being launched need to be triggered Set value as 0 to disable backups Set vaue as 1 to enable backups (In case this flag is set, the parameters “backupRetentionPeriod” and “backupStartTime” are mandatory)	Yes
backupRetentionPeriod	Integer	This parameter defines the time period for which the backup snspshots are to be retained. Range: 1 to 50 days	No
backupStartTime	String	This parameter defines the Start time for triggering the automated backup snapshots cycle (Automated Backup snapshot frequency defined under Global Variables) Format: HH:MM	No

Example Request:

```
curl -i "http://localhost:8080/sql/api/v1/sqlinstance/57" -X PUT -H "CL-AUTH-TOKEN:aac0f4f0-2337-4740-a6c9-184665b3dbf2" -d'{"name":"Server2","description":"Server2","nodes":1,"schema":"demo","masterUserName":"demouser","masterUserPassword":"demouser","port":3306,"serviceTag":"Testing","characterSet":"UTF-8","engine":{"id":3},"targetCloud":{"id":1},"storageSize":10,"availabilityZone":"us-east1","instanceType":{"id":1},"serviceAccessGroup":{"id":5393},"isBackupPreferenceSet":1,"backupRetentionPeriod":"3","backupStartTime":"10:05","multiAZ":1,"multiAZInstanceType":{"id":1},"multiAZAvailabilityZoneName":"US-East1","multiAZAvailabilityZone":"us-east1"}
```

Example Response:

```
{"success":true,"errors":{},"response":{}}
```

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413), itemNotFound (404), serverCapacityUnavailable (503)
Custom Error Response Code(s):	queryFailed(1009), invalidParameterValue(1013), entityDoesNotExist(1012), invalidAction(1001), invalidRequest(1000)

1.3 Modify SQL Instance

Http Method	URI	Description
POST	/sql/api/v1/sqlinstance	Modifies the existing SQL instance (Provisioned)

Request Parameters:

Attribute	Type	Description	Required
<action>	String	Action name "**modify**"	Yes
ID	Integer	Unique ID of the existing instance	Yes
parameterGroup	Integer	Unique ID of existing parameter group Usage: " parameterGroup" : {"id": "123"}	No
isBackupPreferenceSet	Integer	This flag needs to be set in case automated backup snapshots of the instance being launched need to be triggered. Set value as 0 to disable backups Set vaue as 1 to enable backups	Yes

		(In case this flag is set, the parameters “backupRetentionPeriod” and “backupStartTime” are mandatory)	
backupRetentionPeriod	Integer	This parameter defines the time period for which the backup snspshots are to be retained. Range: 1 to 50 days	No
backupStartTime	String	This parameter defines the start time for triggering the automated backup snapshots cycle (Automated Backup snapshot frequency defined under Global Variables) Format: HH:MM	No
applyNow	Boolean	Apply changes to instance. Values: true – If changes are to be applied immediately false – if changes are to be saved but not applied immediatelyand be applied on service restart	Yes

Example Request:

```
curl -i "http://localhost:8080/sql/api/v1/sqlinstance" -X POST -H "CL-AUTH-TOKEN:339b155a-31ba-43fd-887a-e5b47b33df34" -d'
{"modify":{"sqlInstance":{"id":2,"parameterGroup":{"id":3},"isBackupPreferenceSet":1,"backupRetentionPeriod":"5","backupStartTime":"12:10"},"applyNow":true}}’
```

Example Response:

{"success":true,"errors":{},"response":{"instance":[{"port":3306,"autoMinorEnabled":0,"backupRetentionPeriod":5,"multiAZ":1,"backupStartTime":"12:10","isbackupPreferenceSet":1,"isInProgress":2,"noOfSnapshots":null,"instancetype":{"id":1,"instanceTypeId":"t1.micro","name":"XSmall"},"id":2,"schema":"demo","description":"PERCONAMULTIAZ","masterPassword":"demouser","name":"RESTOREDSNAP1","availabilityZone":"us-east1","availabilityZoneName":null,"createdDate":"2014-07-08 07:05:08","parametergroup":{"id":3,"parameterGroupFamilyName":"Percona-Server","name":"Percona_PG","parameterGroupFamilyId":null},"masterUserName":"demouser","accessGroupName":"cumu_7023_default_Percona-Server_1265","serviceaccessgroup":{"id":5392,"name":"default_Percona-Server_1265"},"targetcloud":{"id":1,"name":"Amazonian","iaasProviderId":1},"characterSet":"UTF-8","status":1,"engine":{"id":3,"engineName":"Percona-Server","version":"5.5"},"servicetag":1,"multiAvailabilityZone":"us-east1","isReplica":0,"environment":"Testing","createdBy":2,"nodes":2,"multiAZAvailabilityZoneName":null,"storageSize":20,"multiAzInstanceType":{"id":1,"instanceTypeId":"t1.micro","name":"XSmall"},"noOfReplicas":null}]}}

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413), itemNotFound (404), serverCapacityUnavailable (503)
Custom Error Response Code(s):	queryFailed(1009), invalidParameterValue(1013), invalidAction(1001), invalidRequest(1000)

1.4 Delete SQL Instance

Http Method	URL	Description
DELETE	/sql/api/v1/sqlinstance/<id>	Deletes the existing SQL instance

Example Request:
curl -i "http://loalhost:8080/sql/api/v1/sqlinstance/56" -X DELETE -H "CL-AUTH-TOKEN:67bcb185-dd7a-4007-b659-004e3da63ae3"

Response Format: JSON
{"success":true,"errors":{},"response":{}}

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413), itemNotFound (404), serverCapacityUnavailable (503)
Custom Error Response Code(s):	queryFailed(1009), invalidParameterValue(1013), invalidAction(1001), invalidRequest(1000)

1.5 Get All SQL Instances

Http Method	URI	Description
GET	/sql/api/v1/sqlinstance/	To get all SQL instances

Example Request:
curl -i "http://localhost:8080/sql/api/v1/sqlinstance" -X GET -H "CL-AUTH-TOKEN:67bcb185-dd7a-4007-b659-004e3da63ae3"

Example Response:

```
{"success":true,"errors":{},"response":{"instance":[{"port":3306,"autoMinorEnabled":null,"backupRetentionPeriod":null,"multiAZ":1,"backupStartTime":null,"isbackupPreferenceSet":0,"isInProgress":2,"noOfSnapshots":1,"instancetype":{"id":1,"instanceTypeId":"t1.micro","name":"XSmall"},"id":1,"schema":"demo","description":"PERCONAMULTIAZ","masterPassword":"demouser","name":"PERCONAMULTIAZ","availabilityZone":"us-east1","availabilityZoneName":null,"createdDate":"2014-07-08 06:58:40","masterUserName":"demouser","serviceaccessgroup":{"id":5391,"name":"default_Percona-Server_5385"},"targetcloud":{"id":1,"name":"Amazonian","iaasProviderId":1},"characterSet":"UTF-8","engine":{"id":3,"engineName":"Percona-Server","version":"5.5"},"status":1,"servicetag":1,"multiAvailabilityZone":"us-east1","isReplica":0,"environment":"Testing","createdBy":2,"nodes":2,"multiAZAvailabilityZoneName":null,"storageSize":20,"multiAzInstanceType":{"id":1,"instanceTypeId":"t1.micro","name":"XSmall"},"noOfReplicas":0},{"port":3306,"autoMinorEnabled":0,"backupRetentionPeriod":1,"multiAZ":1,"backupStartTime":null,"isbackupPreferenceSet":null,"isInProgress":2,"noOfSnapshots":0,"instancetype":{"id":1,"instanceTypeId":"t1.micro","name":"XSmall"},"id":2,"schema":"demo","description":"PERCONAMULTIAZ","masterPassword":"demouser","name":"RESTOREDSNAP1","availabilityZone":"us-east1","availabilityZoneName":null,"createdDate":"2014-07-08 07:05:08","masterUserName":"demouser","serviceaccessgroup":{"id":5392,"name":"default_Percona-Server_1265"},"targetcloud":{"id":1,"name":"Amazonian","iaasProviderId":1},"characterSet":"UTF-8","engine":{"id":3,"engineName":"Percona-Server","version":"5.5"},"status":1,"servicetag":1,"multiAvailabilityZone":"us-east1","isReplica":0,"environment":"Testing","createdBy":2,"nodes":2,"multiAZAvailabilityZoneName":null,"storageSize":20,"multiAzInstanceType":{"id":1,"instanceTypeId":"t1.micro","name":"XSmall"},"noOfReplicas":0}]}}
```

Response Code(s):

Normal Response Code(s):	400
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413)
Custom Error Response Code(s):	queryFailed(1009), entityDoesNotExist(1012), invalidRequest(1000)

1.6 Get SQL Instance by ID

Http Method	URI	Description
GET	/sql/api/v1/sqlinstance?id=<id>	To get SQL instance by ID

Query Parameters:

Filter Name	Type	Description	Required
Id	Integer	Unique ID of the instance.	Yes

Example Request:
curl -i "http://localhost:8080/sql/api/v1/sqlinstance?id=57" -X GET -H "CL-AUTH-TOKEN:67bcb185-dd7a-4007-b659-004e3da63ae3"

Example Response:
{"success":true,"errors":{},"response":{"instance":[{"port":3306,"autoMinorEnabled":null,"backupRetentionPeriod":null,"multiAZ":1,"backupStartTime":null,"isbackupPreferenceSet":0,"isInProgress":2,"noOfSnapshots":1,"instancetype":{"id":1,"instanceTypeId":"t1.micro","name":"XSmall"},"id":1,"schema":"demo","description":"PERCONAMULTIAZ","masterPassword":"demouser","name":"PERCONAMULTIAZ","availabilityZone":"us-east1","availabilityZoneName":"US-East1","createdDate":"2014-07-08 06:58:40","masterUserName":"demouser","serviceaccessgroup":{"id":5391,"name":"default_Percona-Server_5385"},"targetcloud":{"id":1,"name":"Amazonian","iaasProviderId":1},"characterSet":"UTF-8","engine":{"id":3,"engineName":"Percona-Server","version":"5.5"},"status":1,"servicetag":1,"multiAvailabilityZone":"us-east1","isReplica":0,"environment":"Testing","createdBy":2,"nodes":2,"multiAZAvailabilityZoneName":"US-East1","storageSize":20,"multiAzInstanceType":{"id":1,"instanceTypeId":"t1.micro","name":"XSmall"},"noOfReplicas":0}]}}00:26:11","masterUserName":"demo","serviceaccessgroup":{"id":4173,"name":"default_MySQL_911"},"targetcloud":{"id":33,"name":"falcon_hpcs"},"engine":{"id":1,"engineName":"MySQL","version":"5.5.27"},"status":2,"charset":null,"servicetag":1,"isReplica":null,"databaseName":null,"environment":"Testing","createdBy":43,"nodes":1,"storageSize":10,"isInprogress":2,"noOfReplicas":0}]}}

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413)
Custom Error Response Code(s):	queryFailed(1009), entityDoesNotExist(1012), invalidRequest(1000)

1.7 Get Default SQL Instance

Http Method	URL	Description
GET	/sql/api/v1/sqlinstance?userId=1&default=1	To get default SQL instance

Query Parameters:

Filter Name	Type	Description	Required
user ID	Integer	Unique id of the user.	Yes
Default	Integer	Default value is 1.	Yes

Example Request:

```
curl -i "http://localhost:8080/sql/api/v1/sqlinstance?userId=2&default=1" -X GET -H "CL-AUTH-TOKEN:dd660ba2-7ce2-4e46-99c1-a3335f66b712"
```

Example Response:

{"success":true,"errors":{},"response":{"instance":[{"port":3306,"autoMinorEnabled":null,"backupRetentionPeriod":null,"multiAZ":0,"backupStartTime":null,"isbackupPreferenceSet":null,"isInProgress":2,"noOfSnapshots":0,"instancetype":{"id":1,"instanceTypeId":"t1.micro","name":"XSmall"},"id":3,"schema":"demo","description":"description","masterPassword":"demouser","name":"defaultInstance","availabilityZone":"us-east1","availabilityZoneName":"US-East1","createdDate":"2014-07-08 08:40:32","masterUserName":"demouser","targetcloud":{"id":1,"name":"Amazonian","iaasProviderId":1},"characterSet":"UTF-8","engine":{"id":1,"engineName":"MySQL","version":"5.5.27"},"status":2,"servicetag":1,"isReplica":0,"environment":"Testing","createdBy":2,"nodes":1,"storageSize":null,"noOfReplicas":0}]}}

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413)
Custom Error Response Code(s):	queryFailed(1009), entityDoesNotExist(1012), invalidRequest(1000)

1.8 Provision SQL Instance

Http Method	URL	Description
POST	/sql/api/v1/sqlinstance	Starts re-provisioning of an terminated SQL instance.

Request Parameters:

Attribute	Type	Description	Required
<action>	String	Action name “**provision**”	Yes
Id	Integer	Unique Id of the existing instance (Terminated)	Yes

Example Request:

curl -i "http://54.196.106.131:8080/sql/api/v1/sqlinstance" -X POST -H "CL-AUTH-TOKEN:f01cdd12-4cf6-4348-8c7c-4cda70f48d00" -d'{"provision": {"sqlInstance": {"id": "5"}}}'

Example Response:

{"success":true,"errors":{},"response":{"instance":[]}}

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413), itemNotFound (404), serverCapacityUnavailable (503)
Custom Error Response Code(s):	queryFailed(1009), invalidParameterValue(1013), invalidAction(1001), invalidRequest(1000)

1.9 Terminate SQL Instance

Http Method	URI	Description
POST	/sql/api/v1/sqlinstance	Terminate the existing SQL instance (provisioned)

Request Parameters:

Attribute	Type	Description	Required
<action>	String	Action name “**terminate**”	Yes
Id	Integer	Unique Id of the existing instance	Yes

Example Request:

curl -i "http://localhost:8080/sql/api/v1/sqlinstance" -X POST -H "CL-AUTH-TOKEN:0185f8cc-aa30-4ef7-a81d-43fd512282d6" -d'{"terminate": {"sqlInstance": {"id": "6"}}}'

Example Response
{ "success": true, "errors": {}, "response": {}}

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400),badMethod (405),overLimit (413), itemNotFound (404),serverCapacityUnavailable (503)
Custom Error Response Code(s):	queryFailed(1009), invalidParameterValue(1013),invalidAction(1001), invalidRequest(1000)

1.10 Restart SQL Instance

Http Method	URL	Description
POST	/sql/api/v1/sqlinstance	Restarts services on the existing SQL instance.

Request Parameters:

Attribute	Type	Description	Required
<action>	String	Action name “**restart**”	Yes
Id	Integer	Unique Id of the existing instance	Yes

Example Request:
curl -i "http://localhost:8080/sql/api/v1/sqlinstance" -X POST -H "CL-AUTH-TOKEN:0185f8cc-aa30-4ef7-a81d-43fd512282d6" -d'{"restart": {"sqlInstance": {"id": "20"}}}'

Example Response:
{ "success": true, "errors": {}, "response": {}}

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413), itemNotFound (404), serverCapacityUnavailable (503)
Custom Error Response Code(s):	queryFailed(1009), invalidParameterValue(1013), invalidAction(1001), invalidRequest(1000)

1.11 Cancel SQL Instance

Http Method	**URI**	**Description**
POST	/sql/api/v1/sqlinstance	Cancels provisioning of the existing SQL instance.

Request Parameters:

Attribute	Type	Description	Required
<action>	String	Action name “**cancel**”	Yes
Id	Integer	Unique Id of the existing instance	Yes

Example Request:
curl -i "http://localhost:8080/sql/api/v1/sqlinstance" -X POST -H "CL-AUTH-TOKEN:0185f8cc-aa30-4ef7-a81d-43fd512282d6" -d'{"cancel": {"sqlInstance": {"id": "20"}}}'

Example Response:
{ "success": true, "errors": {}, "response": {}}

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413), itemNotFound (404), serverCapacityUnavailable (503)
Custom Error Response Code(s):	queryFailed(1009), invalidParameterValue(1013), invalidAction(1001), invalidRequest(1000)

1.12 Create Read Replica

Http Method	**URI**	**Description**
POST	/sql/api/v1/sqlinstance	Creates and starts provisioning of a read replica.

Request Parameters:

Attribute	Type	Description	Required
<action>	String	Action name “provisionReadReplica”	Yes
Id	Integer	Unique Id of the existing database instance	Yes
name	String	Name of the Read Replica to be created	Yes

availabilityZone	String	Availability Zone in which instance is to be provisioned	
instanceType	Array	Instance type id. Ex. "instanceType": {"id": "1"}	Yes
storageSize	Integer	Size of Volume. Range: 10 to 1024GB	Yes

Example Request:

```
curl -i "http://localhost:8080/sql/api/v1/sqlinstance" -X POST -H "CL-AUTH-TOKEN:f01cdd12-4cf6-
4348-8c7c-4cda70f48d00" -d'{"provisionReadReplica":{"sqlInstance":{"name":"REPLICA1","id":
"49","availabilityZone": "us-east1","storageSize":10,"instanceType": {"id": "5"}}}}'
```

Example Response:

```
{"success":true,"errors":{},"response":{"instance":[{"port":3306,"autoMinorEnabled":null,"backupRete
ntionPeriod":null,"multiAZ":0,"backupStartTime":null,"isBackupPreferenceSet":0,"isInProgress":2,"no
OfSnapshots":0,"instancetype":{"id":5,"instanceTypeId":"t1.micro","name":"XSmall"},"id":64,"schema"
:"demo","description":"VM1","masterPassword":"demouser","name":"REPLICA1","availabilityZone":"u
s-east1","availabilityZoneName":"US-East1","createdDate":"2014-06-25
15:15:01","masterUserName":"demouser","accessGroupName":"cumu_94_default_MySQL_144","ser
viceaccessgroup":{"id":4909,"name":"default_MySQL_144"},"targetcloud":{"id":2,"name":"AmazonEC2
","iaasProviderId":1},"characterSet":"UTF-
8","status":1,"engine":{"id":1,"engineName":"MySQL","version":"5.5.27"},"servicetag":1,"isReplica":1,"
environment":"Testing","createdBy":2,"nodes":1,"storageSize":10,"noOfReplicas":0}]}}
```

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413), itemNotFound (404), serverCapacityUnavailable (503)
Custom Error Response Code(s):	queryFailed(1009), invalidParameterValue(1013), invalidAction(1001), invalidRequest(1000)

1.13 Promote Read Replica

Http Method	URI	Description
POST	/sql/api/v1/sqlinstance	Promotes the existing read replica as a Main/Master node

Request Parameters:

Attribute	Type	Description	Required
<action>	String	Action name “**promote**”	Yes
Id	Integer	Unique Id of the existing instance	Yes

Example Request:

```
curl -i "http://localhost:8080/sql/api/v1/sqlinstance" -X POST -H "CL-AUTH-TOKEN:0185f8cc-aa30-4ef7-a81d-43fd512282d6" -d'{"promoteReadReplica": {"sqlInstance": {"id": "20"}}}
```

Example Response:

{ "success": true, "errors": {},"response": {}}

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413), itemNotFound (404), serverCapacityUnavailable (503)
Custom Error Response Code(s):	queryFailed(1009), invalidParameterValue(1013), invalidAction(1001), invalidRequest(1000)

1.14 Get Read Replica By User ID

Http Method	URI	Description
GET	/sql/api/v1/sqlinstance?userId=<userid>&isReplica=1	Gets replica instances by user ID

Example Request:

```
curl -i "http:// localhost:8080/sql/api/v1/sqlinstance?userId=2&isReplica=1" -X GET -H "CL-AUTH-TOKEN:f2e04895-af0d-4104-aebd-b394b12affcb"
```

Example Response:

{ "success": true,"errors": {},"response": { "instance": [{"accessGroupName": null, port": 3306,"multiaz": null,"autoMinorEnabled": null, "status": 2,"backupRetentionPeriod": null,"backupStartTime": null,"charset": null, "engineName": "MySQL-5.5.27","targetCloudName": "testtargetcloud123", "servicetag": 1,"instanceType": "xsmalll","id": 162,"databaseName": null,"isReplica": 1,"environment": Testing","createdBy": 42,”description": null, "nodes": 1, "name": "abc", "masterPassword": "cumulogic", "storageSize": null, "isInprogress": 2, "createdDate": "2014-04-15 11:41:11", "masterUserName": "cumulogic" },{"accessGroupName": null,"port": 3306,"multiaz": null, "autoMinorEnabled": null, “status": 2,"backupRetentionPeriod": null,"backupStartTime": null,"charset": null, "engineName": "MySQL-

5.5.27",targetCloudName":“sttargetcloud123", "servicetag": 1,"instanceType": "xsmalll","id": 163,"databaseName": null, "isReplica": 1,"environment": "Testing","createdBy": 42,"description": null,"nodes": 1, "name": "765sds","masterPassword": "cumulogic", "storageSize": null, "isInprogress": “createdDate": "2014-04-15 11:41:11", "masterUserName": "cumulogic”}] }}

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503),unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413)
Custom Error Response Code(s):	queryFailed(1009), entityDoesNotExist(1012), invalidRequest(1000)

1.15 Clone MySQL Instance

Http Method	**URI**	**Description**
POST	/sql/api/v1/sqlinstance	Clonea the existing SQL instance

Request Parameters:

Attribute	Type	Description	Required
<action>	String	Action name “**clone**”	Yes
Id	Integer	Unique ID of the existing instance	Yes

Example Request:

curl -i "http://localhost:8080/sql/api/v1/sqlinstance" -X POST -H "CL-AUTH-TOKEN:0185f8cc-aa30-4ef7-a81d-43fd512282d6" -d'{"clone": {"sqlInstance": {"id": "6"}}}'

Example Response

{ "success": true, "errors": {}, "response": {}}

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400),badMethod (405),overLimit (413), itemNotFound (404),serverCapacityUnavailable (503)
Custom Error Response Code(s):	queryFailed(1009), invalidParameterValue(1013),invalidAction(1001), invalidRequest(1000)

1.16 Get Events for SQL instance by ID

Http Method	URI	Description
GET	/sql/api/v1/instance/events?id=<id>	Gets events for the database Instance by ID

Example Request:

```
curl -i "http://localhost:8080/sql/api/v1/instance/events?id=5" -X POST -H "CL-AUTH-TOKEN:0185f8cc-aa30-4ef7-a81d-43fd512282d6"
```

Example Response:

{"success":true,"errors":{},"response":{"events":[{"message":"Create instance job
started","id":147,"createdBy":"2014-07-08
15:14:25","timeZone":"UTC","type":"INFO"},{"message":"Create instance task started
","id":148,"createdBy":"2014-07-08 15:14:25","timeZone":"UTC","type":"INFO"},{"message":"Create
instance task completed for Host ec2-54-89-86-46.compute-
1.amazonaws.com","id":149,"createdBy":"2014-07-08
15:14:57","timeZone":"UTC","type":"INFO"},{"message":"Instance network configuration started for
Host ec2-54-89-86-46.compute-1.amazonaws.com","id":150,"createdBy":"2014-07-08
15:14:57","timeZone":"UTC","type":"INFO"},{"message":"Instance network configuration completed
for Host ec2-54-89-86-46.compute-1.amazonaws.com","id":151,"createdBy":"2014-07-08
15:14:57","timeZone":"UTC","type":"INFO"},{"message":"Validate instance connection started for
Host ec2-54-89-86-46.compute-1.amazonaws.com","id":152,"createdBy":"2014-07-08
15:14:57","timeZone":"UTC","type":"INFO"},{"message":"Validate instance connection completed for
Host ec2-54-89-86-46.compute-1.amazonaws.com","id":153,"createdBy":"2014-07-08
15:17:03","timeZone":"UTC","type":"INFO"},{"message":"Storage configuration started for Host ec2-
54-89-86-46.compute-1.amazonaws.com","id":154,"createdBy":"2014-07-08
15:17:03","timeZone":"UTC","type":"INFO"},{"message":"Storage configuration completed for Host
ec2-54-89-86-46.compute-1.amazonaws.com","id":155,"createdBy":"2014-07-08
15:17:45","timeZone":"UTC","type":"INFO"},{"message":"Engine pre-work started for Host ec2-54-89-
86-46.compute-1.amazonaws.com","id":156,"createdBy":"2014-07-08
15:17:45","timeZone":"UTC","type":"INFO"},{"message":"Processing installable for Host ec2-54-89-
86-46.compute-1.amazonaws.com","id":157,"createdBy":"2014-07-08
15:17:45","timeZone":"UTC","type":"INFO"},{"message":"Engine pre-work completed for Host ec2-54-
89-86-46.compute-1.amazonaws.com","id":158,"createdBy":"2014-07-08
15:19:57","timeZone":"UTC","type":"INFO"},{"message":"Create instance job
finished","id":159,"createdBy":"2014-07-08
15:20:05","timeZone":"UTC","type":"INFO"},{"message":"Container engine configuration started
","id":160,"createdBy":"2014-07-08 15:20:10","timeZone":"UTC","type":"INFO"},{"message":"Container
engine configuration completed ","id":161,"createdBy":"2014-07-08
15:21:48","timeZone":"UTC","type":"INFO"},{"message":"CL-agent configuration job started
","id":162,"createdBy":"2014-07-08 15:21:50","timeZone":"UTC","type":"INFO"},{"message":"CL-agent
configuration task started for Host ec2-54-89-86-46.compute-
1.amazonaws.com","id":163,"createdBy":"2014-07-08

```
15:21:50","timeZone":"UTC","type":"INFO"},{"message":"CL-agent configuration task completed  for
Host ec2-54-89-86-46.compute-1.amazonaws.com","id":164,"createdBy":"2014-07-08
15:21:50","timeZone":"UTC","type":"INFO"},{"message":"CL-agent configuration job completed
","id":165,"createdBy":"2014-07-08 15:22:00","timeZone":"UTC","type":"INFO"},{"message":"All Tasks
for current job completed successfully","id":166,"createdBy":"2014-07-08
15:22:10","timeZone":"UTC","type":"INFO"},{"message":"Create instance snapshot task started
","id":168,"createdBy":"2014-07-08 15:24:05","timeZone":"UTC","type":"INFO"},{"message":"Create
instance snapshot task completed ","id":170,"createdBy":"2014-07-08
15:24:05","timeZone":"UTC","type":"INFO"},{"message":"All Tasks for current job completed
successfully","id":172,"createdBy":"2014-07-08
15:24:15","timeZone":"UTC","type":"INFO"},{"message":"Create instance binlog task
started.","id":173,"createdBy":"2014-07-08
15:25:05","timeZone":"UTC","type":"INFO"},{"message":"Create instance binlog task
completed.","id":174,"createdBy":"2014-07-08
15:25:05","timeZone":"UTC","type":"INFO"},{"message":"All Tasks for current job completed
successfully","id":175,"createdBy":"2014-07-08
15:25:15","timeZone":"UTC","type":"INFO"},{"message":"Create instance binlog task
started.","id":176,"createdBy":"2014-07-08
15:30:05","timeZone":"UTC","type":"INFO"},{"message":"Create instance binlog task
completed.","id":177,"createdBy":"2014-07-08
15:30:05","timeZone":"UTC","type":"INFO"},{"message":"All Tasks for current job completed
successfully","id":178,"createdBy":"2014-07-08 15:30:15","timeZone":"UTC","type":"INFO"}]}}
```

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413), itemNotFound (404), serverCapacityUnavailable (503)
Custom Error Response Code(s):	queryFailed(1009), invalidParameterValue(1013), invalidAction(1001), invalidRequest(1000)

2. Entity: SQL Snapshot

2.1 Create Snapshot

Http Method	**URI**	**Description**
POST	/sql/api/v1/sqlsnapshot	Creates a new snapshot of the instance.

Request Parameters:

Attribute	Type	Description	Required
<action>	String	Action name "**snapshot**"	Yes
name	String	Unique instance name.	Yes
description	String	Description about vm.	No

Example Request:

```
curl -i "http://localhost:8080/sql/api/v1/sqlsnapshot" -X POST -H "CL-AUTH-TOKEN:0e3a7b1d-f572-
4089-aa76-792d5a20dff1" -d'{"snapshot": {"sqlInstance": {"dbInstance": {"id": "2"},"name":
"snapshot1"}}}'
```

Example Response:

```
{"success":true,"errors":{},"response":{"snapshot":[{"sqlinstance":{"port":null,"dbInstanceName":null,
"dbInstanceId":2},"port":3306,"id":1,"targetcloud":{"availabilityZone":"us-
east1","availabilityZoneName":null,"targetCloudId":2,"targetCloudName":"AmazonEC2Cloud"},"statu
s":2,"name":"snapshot1","retentionPeriod":null,"storageSize":10,"isInProgress":2,"type":1,"createdDa
te":"2014-06-25
21:30:19","instancetype":{"id":1,"instanceTypeId":"t1.micro","instanceTypeName":"XSmall"}}]}}
```

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413), itemNotFound (404), serverCapacityUnavailable (503)
Custom Error Response Code(s):	queryFailed(1009), invalidParameterValue(1013), invalidAction(1001), entityAlreadyExist(1011), invalidRequest(1000)

2.2 Restore From Snapshot

Http Method	**URI**	**Description**
POST	/sql/api/v1/sqlsnapshot	Restores the instance from snapshot.

Request Parameters:

Attribute	Type	Description	Required
<action>	String	Action name “**restoreFromSnapshot**”	Yes
dbInstanceName	String	Unique instance name.	Yes
ID	Integer	Unique ID of the snapshot.	Yes
availabilityZone	String	This parameter holds the value of the availability zone in which the instance is to be launched. If target cloud is a VM pool, then this parameter is not mandatory.	Yes
availabilityZoneName	String	This parameter holds the value of the availability zone name in which the instance is to be launched. If target cloud is a VM pool, then this parameter is not mandatory.	Yes
Port	Integer	Port for database access. Default=3306	Yes
instanceType	Array	Unique Instance type ID. Usage: "instanceType": {"id": "1"}	Yes
multiAZ	Integer	Mandatory when setting up Multi AZ redundant node Valid Values: multiAZ=0 for No OR mulitAZ=1 for yes Supported only for Percona engine wherein (In case this flag is set, the parameters “multiAZAvailabilityZone” and “multiAZAvailabilityZoneName” are mandatory)	Yes
multiAZAvailabilityZone	String	Second availability zone in which the secondary node of the Percona Multi AZ instance is to be launched. This Is mandatory only if multiAZ value is 1.	No
multiAZAvailabilityZone Name	String	Second availability zone name in which the secondary node of the Percona Multi AZ instances is to be launched. This Is mandatory only if multiAZ value is 1.	No
multiAZInstanceType	Integer	Unique ID of instance type for secondary availability zone. Ex. "instanceType": {"id": "1"} If target cloud is a VM pool, then this parameter is not mandatory.	No

storageSize	Integer	The size of the volume. Valid values: 10 to 1024GB If target cloud is a VM pool, then this parameter is not mandatory.	Yes

Example Request:

```
curl -i "http://54.196.106.131:8080/sql/api/v1/sqlsnapshot" -X POST -H "CL-AUTH-TOKEN:0458a745-d90c-4890-86fd-8959dc139470" -d'{"restoreFromSnapshot": {"sqlInstance": {"id": "17","dbInstanceName": "Restored1","availabilityZone": "us-east1","availabilityZoneName": "US-East1","storageSize": 10,"port": "3306","instanceType": {"id": "1"}}}}'
```

Example Response:

```
{"success":true,"errors":{},"response":{"snapshot":[{"sqlinstance":{"port":3306,"dbInstanceName":"test_snap","dbInstanceId":64},"id":4,"targetcloud":{"availabilityZone":"az-2.region-a.geo-1","availabilityZoneName":null,"targetCloudId":33,"targetCloudName":"falcon_hpcs"},"status":2,"name":"snapshot1","retentionPeriod":null,"storageSize":10,"isInprogress":2,"type":1,"createdDate":"2014-04-29 04:37:24","instancetype":{"id":29,"instanceTypeId":"100","instanceTypeName":"xsmall"}}]}}
```

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500),serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413), itemNotFound (404), serverCapacityUnavailable (503)
Custom Error Response Code(s):	queryFailed(1009), invalidParameterValue(1013),invalidAction(1001), entityAlreadyExist(1011), invalidRequest(1000)

2.3 Restore To Snapshot (Point-in-Time Restore)

Http Method	**URI**	**Description**
POST	/sql/api/v1/sqlsnapshot	Restores the instance from a snapshot at a particular point-in-time

Request Parameters:

Attribute	Type	Description	Required
<action>	String	Action name - “**restoreToSnapshot**”	Yes
customRestorableTime	String	Custom restorable time and date. Format Ex. 2014-06-26 02:30:00	Yes

Port	Integer	Port of database.	Yes
instanceType	Array	Unique image instance typ ID. Usage: “instanceType": {"id": "1"}	Yes
dbInstance	Array	database Instance ID. Usage:"dbInstance": { "id": "25", "name": "restore", "port": "3306", "isAutoUpdateEnabled": "0"}	Yes
storageSize	Integer	Size of additional Volume	

Example Request:

```
curl -i "http://54.196.106.131:8080/sql/api/v1/sqlsnapshot" -X POST -H "CL-AUTH-TOKEN:0458a745-
d90c-4890-86fd-8959dc139470" -d'{"restoreToSnapshot": {"sqlInstance": {"dbInstance": {"id":
"69","name": "Restored11","port": "3306","isAutoUpdateEnabled": "0"},"customRestorableTime":
"2014-06-26 02:30:00","instanceType": {"id": "1"}}}}'
```

Example Response:

```
{"success":true,"errors":{},"response":{"snapshot":[{"sqlinstance":{"port":3306,"dbInstanceName":"R
estored11","dbInstanceId":101},"port":null,"id":126,"status":null,"name":null,"retentionPeriod":null,"s
torageSize":null,"isInProgress":null,"type":null,"createdDate":"2014-06-30
11:03:41","instancetype":{"id":1,"instanceTypeId":null,"instanceTypeName":null}}]}}
```

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413), itemNotFound (404), serverCapacityUnavailable (503)
Custom Error Response Code(s):	queryFailed(1009), invalidParameterValue(1013),invalidAction(1001), entityAlreadyExist(1011), invalidRequest(1000)

2.4 Delete MySQL Snapshot

Http Method	URL	Description
GET	/sql/api/v1/sqlsnapshot/<id>	Deletes snapshot by ID

Example Request:

```
curl -i "http://localhost:8080/sql/api/v1/sqlsnapshot/2"-X DELETE-H "CL-AUTH-TOKEN:3d76564703b3-
4334-9a3e-b2d562b5909e"
```

Example Response:

```
{"response": [],"errors": {},"success": true}
```

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413), itemNotFound (404)
Custom Error Response Code(s):	queryFailed(1009), entityDoesNotExist(1012), invalidRequest(1000), invalidParameterValue(1013)

2.5 Get SQL Snapshot by Name

Http Method	URL	Description
GET	/sql/api/v1/sqlsnapshot?name=<name>	Gets specific snapshot by name.

Example Request:

```
curl -i "http://localhost:8080/sql/api/v1/sqlsnapshot?name=SNAP1" -X GET -H "CL-AUTH-TOKEN:dd660ba2-7ce2-4e46-99c1-a3335f66b712"
```

Example Response:

```
{"success":true,"errors":{},"response":{"snapshot":[{"sqlinstance":{"port":3306,"dbInstanceName":"PERCONAMULTIAZ","dbInstanceId":1},"port":3306,"targetcloud":{"availabilityZone":"us-east1","availabilityZoneName":null,"iaasProviderId":1,"targetCloudId":1,"targetCloudName":"Amazonian"},"jobId":2,"status":2,"engine":{"id":3,"engineName":"Percona-Server","version":"5.5"},"isInProgress":1,"type":1,"instancetype":{"id":1,"instanceTypeId":"t1.micro","instanceTypeName":"XSmall"},"id":1,"name":"SNAP1","masterPassword":"demouser","retentionPeriod":null,"storageSize":20,"createdDate":"2014-07-08 07:04:30","masterUserName":"demouser"}]}}
```

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413)

Custom Error Response Code(s):	queryFailed(1009), entityDoesNotExist(1012), invalidRequest(1000)

2.6 Get SQL Snapshot by ID

Http Method	URI	Description
GET	/sql/api/v1/sqlsnapshot?id=<id>	Gets specific snapshot by ID.

Example Request: Query Parameters

```
curl -i "http://localhost:8080/sql/api/v1/sqlsnapshot?id=1" -X GET -H "CL-AUTH-TOKEN:dd660ba2-7ce2-4e46-99c1-a3335f66b712"
```

Example Response:

```
{"success":true,"errors":{},"response":{"snapshot":[{"sqlinstance":{"port":3306,"dbInstanceName":"PERCONAMULTIAZ","dbInstanceId":1},"port":3306,"targetcloud":{"availabilityZone":"us-east1","availabilityZoneName":"US-East1","iaasProviderId":1,"targetCloudId":1,"targetCloudName":"Amazonian"},"jobId":2,"status":2,"engine":{"id":3,"engineName":"Percona-Server","version":"5.5"},"isInProgress":1,"type":1,"instancetype":{"id":1,"instanceTypeId":"t1.micro","instanceTypeName":"XSmall"},"id":1,"name":"SNAP1","masterPassword":"demouser","retentionPeriod":null,"storageSize":20,"createdDate":"2014-07-08 07:04:30","masterUserName":"demouser"}]}}
```

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413)
Custom Error Response Code(s):	queryFailed(1009), entityDoesNotExist(1012), invalidRequest(1000)

2.7 Get SQL Snapshot By User

Http Method	URI	Description
GET	/sql/api/v1/sqlsnapshot?userId=<userid>	To get specific snapshot by user ID.

Example Request:

```
curl -i "http://localhost:8080/sql/api/v1/sqlsnapshot?userId=2" -X GET -H "CL-AUTH-TOKEN:9e54e9d8-e58b-4524-8e6c-d34bc5e4a1d1"
```

Example Response:

{"success":true,"errors":{},"response":{"snapshot":[{"sqlinstance":{"port":3306,"dbInstanceName":"PERCONAMULTIAZ","dbInstanceId":1},"port":3306,"targetcloud":{"availabilityZone":"us-east1","availabilityZoneName":"US-East1","iaasProviderId":1,"targetCloudId":1,"targetCloudName":"Amazonian"},"jobId":2,"status":2,"engine":{"id":3,"engineName":"Percona-Server","version":"5.5"},"isInProgress":1,"type":1,"instancetype":{"id":1,"instanceTypeId":"t1.micro","instanceTypeName":"XSmall"},"id":1,"name":"SNAP1","masterPassword":"demouser","retentionPeriod":null,"storageSize":20,"createdDate":"2014-07-08 07:04:30","masterUserName":"demouser"}]}}

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413)
Custom Error Response Code(s):	queryFailed(1009), entityDoesNotExist(1012), invalidRequest(1000)

2.8 Get Events for a Snapshot by ID

Http Method	URI	Description
GET	/sql/api/v1/snapshot/events?id=<id>	To get events for specific snapshot by user ID.

Example Request:

```
curl -i "http://localhost:8080/sql/api/v1/sqlsnapshot/events?id=1" -X GET -H "CL-AUTH-TOKEN:9e54e9d8-e58b-4524-8e6c-d34bc5e4a1d1"
```

Example Response:

{"success":true,"errors":{},"response":{"events":[{"message":"Create instance snapshot task started ","id":34,"createdBy":"2014-07-08 11:04:35","timeZone":"UTC","type":"INFO"},{"message":"Create instance snapshot task completed ","id":35,"createdBy":"2014-07-08 11:04:35","timeZone":"UTC","type":"INFO"},{"message":"All Tasks for current job completed successfully","id":36,"createdBy":"2014-07-08 11:04:45","timeZone":"UTC","type":"INFO"}]}}

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413)
Custom Error Response Code(s):	queryFailed(1009), entityDoesNotExist(1012), invalidRequest(1000)

3. Entity: Database Engines

3.1 Get All Database Engines

Http Method	URI	Description
GET	/sql/api/v1/sqlengine	Gets all SQL engines.

Example Request:

```
$ curl -i "http://localhost:8080/sql/api/v1/sqlengine" -X GET -H "CL-AUTH-TOKEN:339b155a-31ba-43fd-887a-e5b47b33df34"
```

Example Response:

```
{"success":true,"errors":{},"response":{"engine":[{"id":1,"hostType":2,"name":"MySQL","type":1,"version":"5.5.27"},{"id":3,"hostType":3,"name":"Percona-Server","type":2,"version":"5.5"}]}}
```

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413)
Custom Error Response Code(s):	queryFailed(1009), entityDoesNotExist(1012), invalidRequest(1000)

3.2 Get Database Engine By ID

Http Method	URI	Description
GET	/sql/api/v1/sqlengine?id=<id>	Gets SQL engine by ID.

Example Request:

```
$ curl -i "http://localhost:8080/sql/api/v1/sqlengine?id=1" -X GET -H "CL-AUTH-TOKEN:339b155a-31ba-43fd-887a-e5b47b33df34"
```

Example Response:

```
{"success":true,"errors":{},"response":{"engine":[{"id":1,"hostType":2,"name":"MySQL","type":1,"version":"5.5.27"}]}}
```

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413)
Custom Error Response Code(s):	queryFailed(1009), entityDoesNotExist(1012), invalidRequest(1000)

3.3 Get Database Engine By Name and Version

Http Method	URI	Description
GET	/sql/api/v1/sqlengine?name=<name>&version=<version>	Gets SQL engine by name and version

Example Request:
$ curl -i "http://localhost:8080/sql/api/v1/sqlengine?name=MySQL&version=5.5.27" -X GET -H "CL-AUTH-TOKEN:339b155a-31ba-43fd-887a-e5b47b33df34"

Example Response:
{"success":true,"errors":{},"response":{"engine":[{"id":1,"hostType":2,"name":"MySQL","type":1,"version":"5.5.27"}]}}

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413)
Custom Error Response Code(s):	queryFailed(1009), entityDoesNotExist(1012), invalidRequest(1000)

4. Entity: SQL Parameter Groups

4.1 Create SQL Parameter Group

Http Method	**URL**	**Description**
Create	/sql/api/v1/sqlparametergroup	Creates a new SQL parameter group.

Request Parameters:

Attribute	Type	Description	Required
<action>	String	Action name “**create**”	Yes
name	String	Unique parameter group name.	Yes
description	String	Description about SQL parameter group.	No
parameterGroupFamilyId	Integer	Unique ID of parameter groupfamily ID.	Yes

Example Request:

```
curl -i "http://localhost:8080/sql/api/v1/sqlparametergroup?" -X POST -H "CL-AUTH-
TOKEN:dd660ba2-7ce2-4e46-99c1-a3335f66b712" -
d'{"create":{"parameterGroupFamilyId":1,"name":"SQL_PG","description":"SQL_PG"}}'
```

Example Response:

```
{"success":true,"errors":{},"response":{"parameterGroup":[{"id":2,"description":"SQL_PG","name":"SQ
L_PG","engineName":"MySQL-5.5.27","parameters":[{"id":15,"scope":"Global","possibleValues":"25
PER of
RAM","name":"key_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"","type":"Nu
meric"},{"id":16,"scope":"Global","possibleValues":"0 to
18446744073709547520","name":"query_cache_size","value":null,"isDynamic":1,"comment":"permitt
ed values are multiple of 1024","defaultValue":"0
(off)","type":"Numeric"},{"id":17,"scope":"Global","possibleValues":"0 or 1 or
2","name":"query_cache_type","value":null,"isDynamic":1,"comment":"","defaultValue":"1
(on)","type":"Numeric"},{"id":18,"scope":"Global","possibleValues":"0  to
16384","name":"thread_cache_size","value":null,"isDynamic":1,"comment":"","defaultValue":"0","type
":"Numeric"},{"id":19,"scope":"Global","possibleValues":"0 to
1000","name":"innodb_thread_concurrency","value":null,"isDynamic":1,"comment":"Setting to 0,
takes the limit off","defaultValue":"8","type":"Numeric"},{"id":20,"scope":"Global","possibleValues":"0
to
5000","name":"max_connections","value":null,"isDynamic":1,"comment":"","defaultValue":"100","type
":"Numeric"},{"id":21,"scope":"Global","possibleValues":"upto 80 PER of
memory","name":"innodb_buffer_pool_size","value":null,"isDynamic":0,"comment":"Setting it very
```

large takes longer to initialize","defaultValue":"8MB","type":"Numeric"},{"id":22,"scope":"Global","possibleValues":"1MB to 8MB","name":"innodb_log_buffer_size","value":null,"isDynamic":0,"comment":"permitted values are multiple of 1024","defaultValue":"1MB","type":"Numeric"},{"id":23,"scope":"Global","possibleValues":"min 10, default 300","name":"innodb_open_files","value":null,"isDynamic":0,"comment":"","defaultValue":"300","type":"Numeric"},{"id":24,"scope":"Global","possibleValues":"upto 4GB max","name":"join_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"0","type":"Numeric"},{"id":25,"scope":"Global","possibleValues":"minimum 4096 bytes, max 1GB","name":"max_binlog_size","value":null,"isDynamic":1,"comment":"","defaultValue":"1GB","type":"Numeric"},{"id":26,"scope":"Global","possibleValues":"upto 2GB max","name":"read_buffer_size","value":null,"isDynamic":1,"comment":"should be in multiple of 4KB","defaultValue":"131072","type":"Numeric"},{"id":27,"scope":"Global","possibleValues":"Max upto 4GB","name":"sort_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"2097144","type":"Numeric"},{"id":28,"scope":"Global","possibleValues":"Max upto 4GB","name":"sort_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"2097144","type":"Numeric"}],"createdDate":"2014-07-08 06:21:56"}]}}

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413)
engineName	String
Custom Error Response Code(s):	queryFailed(1009), entityDoesNotExist(1012), invalidParameterValue(1013), invalidRequest(1000)

4.2 Delete SQL Parameter Group

Http Method	URL	Description
DELETE	/sql/api/v1/sqlparametergroup/<id>	Deletes the existing SQL instance.

Example Request:

curl -i "http://localhost:8080/sql/api/v1/sqlparametergroup/2" -X DELETE -H "CL-AUTH-TOKEN:dd660ba2-7ce2-4e46-99c1-a3335f66b712"

Response Format:

{"success":true,"errors":{},"response":{}}

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413)
engineName	String
Custom Error Response Code(s):	queryFailed(1009), entityDoesNotExist(1012), invalidParameterValue(1013), invalidRequest(1000)

4.3 Update SQL Parameter Group

Http Method	URI	Description
PUT	/sql/api/v1/sqlparameter/<id>	Updates the existing SQL parameter group.

Request Parameters:

Attribute	Type	Description	Required
name	String	Unique SQL parameter Group name.	Yes
dbParameters	ArrayList	List of parameters	Yes

Example Request:

```
curl -i "http://localhost:8080/sql/api/v1/sqlparametergroup/1" -X PUT -H "CL-AUTH-TOKEN:f01cdd12-
4cf6-4348-8c7c-4cda70f48d00" -d'{"dbParameters":[{"id":14,"scope":"Global","possibleValues":"25
PER of
RAM","name":"key_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"","type":"Nu
meric"},{"id":15,"scope":"Global","possibleValues":"0 to
18446744073709547520","name":"query_cache_size","value":null,"isDynamic":1,"comment":"permitt
ed values are multiple of 1024","defaultValue":"0
(off)","type":"Numeric"},{"id":16,"scope":"Global","possibleValues":"0 or 1 or
2","name":"query_cache_type","value":null,"isDynamic":1,"comment":"","defaultValue":"1
(on)","type":"Numeric"},{"id":17,"scope":"Global","possibleValues":"0 to
16384","name":"thread_cache_size","value":null,"isDynamic":1,"comment":"","defaultValue":"0","type
":"Numeric"},{"id":18,"scope":"Global","possibleValues":"0 to
1000","name":"innodb_thread_concurrency","value":null,"isDynamic":1,"comment":"Setting to 0,
takes the limit off","defaultValue":"8","type":"Numeric"},{"id":19,"scope":"Global","possibleValues":"0
to
5000","name":"max_connections","value":"30000","isDynamic":1,"comment":"","defaultValue":"100","
type":"Numeric"},{"id":20,"scope":"Global","possibleValues":"upto 80 PER of
memory","name":"innodb_buffer_pool_size","value":null,"isDynamic":0,"comment":"Setting it very
large takes longer to
initialize","defaultValue":"8MB","type":"Numeric"},{"id":21,"scope":"Global","possibleValues":"1MB to
8MB","name":"innodb_log_buffer_size","value":null,"isDynamic":0,"comment":"permitted values are
multiple of
1024","defaultValue":"1MB","type":"Numeric"},{"id":22,"scope":"Global","possibleValues":"min 10,
default
300","name":"innodb_open_files","value":null,"isDynamic":0,"comment":"","defaultValue":"300","type
":"Numeric"},{"id":23,"scope":"Global","possibleValues":"upto 4GB
max","name":"join_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"0","type":"N
umeric"},{"id":24,"scope":"Global","possibleValues":"minimum 4096 bytes, max
1GB","name":"max_binlog_size","value":null,"isDynamic":1,"comment":"","defaultValue":"1GB","type":
"Numeric"},{"id":25,"scope":"Global","possibleValues":"upto 2GB
max","name":"read_buffer_size","value":null,"isDynamic":1,"comment":"should be in multiple of
4KB","defaultValue":"131072","type":"Numeric"},{"id":26,"scope":"Global","possibleValues":"Max upto
4GB","name":"sort_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"2097144","ty
pe":"Numeric"}]}'
```

Example Response:

```
{"success":true,"errors":{},"response":{}}
```

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413), itemNotFound (404), serverCapacityUnavailable (503)
Custom Error Response Code(s):	QueryFailed(1009), entityDoesNotExist(1012), invalidParameterValue(1013), invalidAction(1001), invalidRequest(1000)

4.4 Get SQL Parameter Group By Name

Http Method	URL	Description
GET	/sql/api/v1/sqlparametergroup?name=<name of Parameter Group>	Gets specific SQL parameter group by its name.

Example Request: Query Parameters

```
curl -i "http://localhost:8080/sql/api/v1/sqlparametergroup?name=MySQL_PG" -X GET -H "CL-AUTH-
TOKEN:dd660ba2-7ce2-4e46-99c1-a3335f66b712"
```

Example Response:

```
{"success":true,"errors":{},"response":{"parameterGroup":[{"id":1,"description":"MySQL_Parameter_
Group","name":"MySQL_PG","engineName":"MySQL-
5.5.27","parameters":[{"id":1,"scope":"Global","possibleValues":"25 PER of
RAM","name":"key_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"","type":"Nu
meric"},{"id":2,"scope":"Global","possibleValues":"0 to
18446744073709547520","name":"query_cache_size","value":null,"isDynamic":1,"comment":"permitt
ed values are multiple of 1024","defaultValue":"0
(off)","type":"Numeric"},{"id":3,"scope":"Global","possibleValues":"0 or 1 or
2","name":"query_cache_type","value":null,"isDynamic":1,"comment":"","defaultValue":"1
(on)","type":"Numeric"},{"id":4,"scope":"Global","possibleValues":"0  to
16384","name":"thread_cache_size","value":null,"isDynamic":1,"comment":"","defaultValue":"0","type
":"Numeric"},{"id":5,"scope":"Global","possibleValues":"0 to
1000","name":"innodb_thread_concurrency","value":null,"isDynamic":1,"comment":"Setting to 0,
takes the limit off","defaultValue":"8","type":"Numeric"},{"id":6,"scope":"Global","possibleValues":"0
to
5000","name":"max_connections","value":null,"isDynamic":1,"comment":"","defaultValue":"100","type
":"Numeric"},{"id":7,"scope":"Global","possibleValues":"upto 80 PER of
memory","name":"innodb_buffer_pool_size","value":null,"isDynamic":0,"comment":"Setting it very
large takes longer to
initialize","defaultValue":"8MB","type":"Numeric"},{"id":8,"scope":"Global","possibleValues":"1MB to
8MB","name":"innodb_log_buffer_size","value":null,"isDynamic":0,"comment":"permitted values are
multiple of
1024","defaultValue":"1MB","type":"Numeric"},{"id":9,"scope":"Global","possibleValues":"min 10,
default
300","name":"innodb_open_files","value":null,"isDynamic":0,"comment":"","defaultValue":"300","type
":"Numeric"},{"id":10,"scope":"Global","possibleValues":"upto 4GB
max","name":"join_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"0","type":"N
umeric"},{"id":11,"scope":"Global","possibleValues":"minimum 4096 bytes, max
1GB","name":"max_binlog_size","value":null,"isDynamic":1,"comment":"","defaultValue":"1GB","type":
"Numeric"},{"id":12,"scope":"Global","possibleValues":"upto 2GB
max","name":"read_buffer_size","value":null,"isDynamic":1,"comment":"should be in multiple of
4KB","defaultValue":"131072","type":"Numeric"},{"id":13,"scope":"Global","possibleValues":"Max upto
4GB","name":"sort_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"2097144","ty
pe":"Numeric"},{"id":14,"scope":"Global","possibleValues":"Max upto
4GB","name":"sort_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"2097144","ty
pe":"Numeric"}],"createdDate":"2014-07-08 05:57:10"}]}}
```

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413)
Custom Error Response Code(s):	queryFailed(1009), entityDoesNotExist(1012), invalidRequest(1000)

4.5 Get SQL Parameter Group By User ID

Http Method	URI	Description
GET	/sql/api/v1/sqlparametergroup?userId=<id>	Gets SQL parametergroup by user ID.

Example Request:

```
curl -i "http://localhost:8080/sql/api/v1/sqlparametergroup?userId=2" -X GET -H "CL-AUTH-
TOKEN:dd660ba2-7ce2-4e46-99c1-a3335f66b712"
```

Example Response:

{"success":true,"errors":{},"response":{"parameterGroup":[{"id":1,"description":"MySQL_Parameter_
Group","name":"MySQL_PG","engineName":"MySQL-
5.5.27","parameters":[{"id":1,"scope":"Global","possibleValues":"25 PER of
RAM","name":"key_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"","type":"Nu
meric"},{"id":2,"scope":"Global","possibleValues":"0 to
18446744073709547520","name":"query_cache_size","value":null,"isDynamic":1,"comment":"permitt
ed values are multiple of 1024","defaultValue":"0
(off)","type":"Numeric"},{"id":3,"scope":"Global","possibleValues":"0 or 1 or
2","name":"query_cache_type","value":null,"isDynamic":1,"comment":"","defaultValue":"1
(on)","type":"Numeric"},{"id":4,"scope":"Global","possibleValues":"0 to
16384","name":"thread_cache_size","value":null,"isDynamic":1,"comment":"","defaultValue":"0","type
":"Numeric"},{"id":5,"scope":"Global","possibleValues":"0 to
1000","name":"innodb_thread_concurrency","value":null,"isDynamic":1,"comment":"Setting to 0,
takes the limit off","defaultValue":"8","type":"Numeric"},{"id":6,"scope":"Global","possibleValues":"0
to
5000","name":"max_connections","value":null,"isDynamic":1,"comment":"","defaultValue":"100","type
":"Numeric"},{"id":7,"scope":"Global","possibleValues":"upto 80 PER of
memory","name":"innodb_buffer_pool_size","value":null,"isDynamic":0,"comment":"Setting it very
large takes longer to
initialize","defaultValue":"8MB","type":"Numeric"},{"id":8,"scope":"Global","possibleValues":"1MB to
8MB","name":"innodb_log_buffer_size","value":null,"isDynamic":0,"comment":"permitted values are
multiple of
1024","defaultValue":"1MB","type":"Numeric"},{"id":9,"scope":"Global","possibleValues":"min 10,
default
300","name":"innodb_open_files","value":null,"isDynamic":0,"comment":"","defaultValue":"300","type
":"Numeric"},{"id":10,"scope":"Global","possibleValues":"upto 4GB
max","name":"join_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"0","type":"N
umeric"},{"id":11,"scope":"Global","possibleValues":"minimum 4096 bytes, max
1GB","name":"max_binlog_size","value":null,"isDynamic":1,"comment":"","defaultValue":"1GB","type":
"Numeric"},{"id":12,"scope":"Global","possibleValues":"upto 2GB
max","name":"read_buffer_size","value":null,"isDynamic":1,"comment":"should be in multiple of
4KB","defaultValue":"131072","type":"Numeric"},{"id":13,"scope":"Global","possibleValues":"Max upto

4GB","name":"sort_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"2097144","type":"Numeric"},{"id":14,"scope":"Global","possibleValues":"Max upto 4GB","name":"sort_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"2097144","type":"Numeric"}],"createdDate":"2014-07-08 05:57:10"}]}}

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413)
Custom Error Response Code(s):	queryFailed(1009), entityDoesNotExist(1012), invalidRequest(1000)

4.6 Get SQL Parameter Group By ID

Http Method	URI	Description
GET	/sql/api/v1/sqlparametergroup?id=<id>	Gets SQL parametergroup by ID.

Example Request: Query Parameters

```
curl -i "http://localhost:8080/sql/api/v1/sqlparametergroup?id=1" -X GET -H "CL-AUTH-TOKEN:dd660ba2-7ce2-4e46-99c1-a3335f66b712"
```

Example Response:

{"success":true,"errors":{},"response":{"parameterGroup":[{"id":1,"description":"MySQL_Parameter_Group","name":"MySQL_PG","engineName":"MySQL-5.5.27","parameters":[{"id":1,"scope":"Global","possibleValues":"25 PER of RAM","name":"key_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"","type":"Numeric"},{"id":2,"scope":"Global","possibleValues":"0 to 18446744073709547520","name":"query_cache_size","value":null,"isDynamic":1,"comment":"permitted values are multiple of 1024","defaultValue":"0 (off)","type":"Numeric"},{"id":3,"scope":"Global","possibleValues":"0 or 1 or 2","name":"query_cache_type","value":null,"isDynamic":1,"comment":"","defaultValue":"1 (on)","type":"Numeric"},{"id":4,"scope":"Global","possibleValues":"0 to 16384","name":"thread_cache_size","value":null,"isDynamic":1,"comment":"","defaultValue":"0","type":"Numeric"},{"id":5,"scope":"Global","possibleValues":"0 to 1000","name":"innodb_thread_concurrency","value":null,"isDynamic":1,"comment":"Setting to 0, takes the limit off","defaultValue":"8","type":"Numeric"},{"id":6,"scope":"Global","possibleValues":"0 to 5000","name":"max_connections","value":null,"isDynamic":1,"comment":"","defaultValue":"100","type

```
":"Numeric"},{"id":7,"scope":"Global","possibleValues":"upto 80 PER of
memory","name":"innodb_buffer_pool_size","value":null,"isDynamic":0,"comment":"Setting it very
large takes longer to
initialize","defaultValue":"8MB","type":"Numeric"},{"id":8,"scope":"Global","possibleValues":"1MB to
8MB","name":"innodb_log_buffer_size","value":null,"isDynamic":0,"comment":"permitted values are
multiple of
1024","defaultValue":"1MB","type":"Numeric"},{"id":9,"scope":"Global","possibleValues":"min 10,
default
300","name":"innodb_open_files","value":null,"isDynamic":0,"comment":"","defaultValue":"300","type
":"Numeric"},{"id":10,"scope":"Global","possibleValues":"upto 4GB
max","name":"join_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"0","type":"N
umeric"},{"id":11,"scope":"Global","possibleValues":"minimum 4096 bytes, max
1GB","name":"max_binlog_size","value":null,"isDynamic":1,"comment":"","defaultValue":"1GB","type":
"Numeric"},{"id":12,"scope":"Global","possibleValues":"upto 2GB
max","name":"read_buffer_size","value":null,"isDynamic":1,"comment":"should be in multiple of
4KB","defaultValue":"131072","type":"Numeric"},{"id":13,"scope":"Global","possibleValues":"Max upto
4GB","name":"sort_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"2097144","ty
pe":"Numeric"},{"id":14,"scope":"Global","possibleValues":"Max upto
4GB","name":"sort_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"2097144","ty
pe":"Numeric"}],"createdDate":"2014-07-08 05:57:10"}]}}
```

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413)

Custom Error Response Code(s):	queryFailed(1009), entityDoesNotExist(1012), invalidRequest(1000)
	invalidParameterValue(1013)

4.7 Get SQL Parameter Group By User ID and Engine Name

Http Method	URL	Description
GET	/sql/api/v1/ sqlparametergroup?userId=<id>&engineName=My SQL 5.5.27	Gets SQL parameter group by user ID and engine name

Query Parameters:

Filter Name	Type	Description
user ID	Integer	Unique ID of the user.
engineName	String	Engine name for SQL service

Example Request:

```
curl -i "http://localhost:8080/sql/api/v1/sqlparametergroup?userId=2&engineName=MySQL+5.5.27" -
X GET -H "CL-AUTH-TOKEN:dd660ba2-7ce2-4e46-99c1-a3335f66b712"
```

Example Response:

```
{"success":true,"errors":{},"response":{"parameterGroup":[{"id":1,"description":"MySQL_Parameter_
Group","name":"MySQL_PG","engineName":"MySQL-
5.5.27","parameters":[{"id":1,"scope":"Global","possibleValues":"25 PER of
RAM","name":"key_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"","type":"Nu
meric"},{"id":2,"scope":"Global","possibleValues":"0 to
18446744073709547520","name":"query_cache_size","value":null,"isDynamic":1,"comment":"permitt
ed values are multiple of 1024","defaultValue":"0
(off)","type":"Numeric"},{"id":3,"scope":"Global","possibleValues":"0 or 1 or
2","name":"query_cache_type","value":null,"isDynamic":1,"comment":"","defaultValue":"1
(on)","type":"Numeric"},{"id":4,"scope":"Global","possibleValues":"0  to
16384","name":"thread_cache_size","value":null,"isDynamic":1,"comment":"","defaultValue":"0","type
":"Numeric"},{"id":5,"scope":"Global","possibleValues":"0 to
1000","name":"innodb_thread_concurrency","value":null,"isDynamic":1,"comment":"Setting to 0,
takes the limit off","defaultValue":"8","type":"Numeric"},{"id":6,"scope":"Global","possibleValues":"0
to
5000","name":"max_connections","value":null,"isDynamic":1,"comment":"","defaultValue":"100","type
":"Numeric"},{"id":7,"scope":"Global","possibleValues":"upto 80 PER of
memory","name":"innodb_buffer_pool_size","value":null,"isDynamic":0,"comment":"Setting it very
large takes longer to
initialize","defaultValue":"8MB","type":"Numeric"},{"id":8,"scope":"Global","possibleValues":"1MB to
8MB","name":"innodb_log_buffer_size","value":null,"isDynamic":0,"comment":"permitted values are
multiple of
1024","defaultValue":"1MB","type":"Numeric"},{"id":9,"scope":"Global","possibleValues":"min 10,
default
300","name":"innodb_open_files","value":null,"isDynamic":0,"comment":"","defaultValue":"300","type
":"Numeric"},{"id":10,"scope":"Global","possibleValues":"upto 4GB
max","name":"join_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"0","type":"N
umeric"},{"id":11,"scope":"Global","possibleValues":"minimum 4096 bytes, max
1GB","name":"max_binlog_size","value":null,"isDynamic":1,"comment":"","defaultValue":"1GB","type":
"Numeric"},{"id":12,"scope":"Global","possibleValues":"upto 2GB
max","name":"read_buffer_size","value":null,"isDynamic":1,"comment":"should be in multiple of
4KB","defaultValue":"131072","type":"Numeric"},{"id":13,"scope":"Global","possibleValues":"Max upto
4GB","name":"sort_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"2097144","ty
pe":"Numeric"},{"id":14,"scope":"Global","possibleValues":"Max upto
4GB","name":"sort_buffer_size","value":null,"isDynamic":1,"comment":"","defaultValue":"2097144","ty
pe":"Numeric"}],"createdDate":"2014-07-08 05:57:10"}]}}
```

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413)
engineName	String
Custom Error Response Code(s):	queryFailed(1009), entityDoesNotExist(1012), invalidParameterValue(1013), invalidRequest(1000)

5. Entity: SQL Subscriptions

5.1 Add Subscription

Http Method	URL	Description
POST	/sql/api/v1/subscription	Creates a new SQL service subscription.

Request Parameters:

Attribute	Type	Description	Required
<action>	String	Action name "**add**"	Yes
name	String	Unique subscription name.	Yes
price	String	Subscription pricing in dollars($)	Yes
priceType	String	Subscription Duration Expected values: Monthly=1 OR Yearly=2	Yes
features	String	Salient Features /Description of the subscription.	Yes
storageSize	Integer	Size of storage. Valid Range:10 to 1024GB	Yes
multiNode	Integer	Number of instances want to provision.	Yes
iaasProviderId	Integer	Unique ID of IaaS Provider	Yes
imageInstanceTypeId	Integer	Unique ID of image instance type.	Yes
engineId	Integer	Unique ID of engine.	Yes
availabilityZone	String	This parameter holds the value of the availability zone in which the instances is to be launched If target cloud is a VM pool, then this parameter is not mandatory.	Yes
availabilityZoneName	String	This parameter holds the value of the availability zone name in which the instances is to be launched.If target cloud is a VM pool, then this parameter is not mandatory.	Yes
multiAZ	Integer	Mandatory when setting up Multi AZ	Yes

		redundant node Valid Values: multiAZ=0 for No, mulitAZ=1 for yes Supported only for Percona engine wherein (In case this flag is set, the parameters “multiAZAvailabilityZone” and “multiAZAvailabilityZoneName” are mandatory)	
multiAZAvailabilityZone	String	Second Availability zone in which the secondary node of the Percona Multi AZ instances is to be launched This Is mandatory only if multiAZ value is 1.	No
multiAZAvailabilityZoneName	String	Second Availability zone name in which the secondary node of the Percona Multi AZ instances is to be launched This Is mandatory only if multiAZ value is 1.	No
multiAZInstanceType	Integer	Valid Input: {"id":1} and so on. Unique ID of image instance type for secondary zone. This Is mandatory only if multiAZ value is 1.	No

Example Request:

```
curl -i "http://localhost:8080/sql/api/v1/subscription" -X POST -H "CL-AUTH-TOKEN:724234d3-0e7b-
493d-aa55-6c43a28222f4" -d'{"add":{"subscription": {"name": "SQLSubscription1","price":
"$10","priceType": "1","features": "MySQLServiceonStandaloneVM<br>VMConfiguration:<br>Engine:
MySQL5.5.27<br>IaaSProvider: AmazonEC2<br>AvailabilityZone: us-
east1<br>InstanceConfiguration:standard.xsmall-1vCPU/1GBRAM/30GBHD-$1<br>NoofNodes:
1<br>Ext.Volume: 100GB<br>","storageSize": "10","multiAZ":
"0","multiAZInstanceType":{"id":1},"multiAZAvailabilityZoneName":"US-
East1","multiAZAvailabilityZone":"us-east1","iaasProviderId": "1","availabilityZoneName": "US-
East1","availabilityZone": "us-east1","engineId": "1","imageInstanceTypeId": "1","multiNode": "1"}}}'
```

Example Response:

```
{"success":true,"errors":{},"response":{"subscription":[{"ownerType":1,"priceType":1,"imageInstanceId":1,"multiA
Z":0,"id":94,"multiAvailabilityZone":"","price":"$10","createdBy":1,"nodes":1,"name":"SQLSubscription1","availabil
ityZone":"us-
east1","storageSize":10,"multiAZAvailabilityZoneName":"","feature":"MySQLServiceonStandaloneVM<br>VMCon
figuration:<br>Engine: MySQL5.5.27<br>IaaSProvider: AmazonEC2<br>AvailabilityZone: us-
east1<br>InstanceConfiguration:standard.xsmall-1vCPU/1GBRAM/30GBHD-$1<br>NoofNodes:
1<br>Ext.Volume: 100GB<br>","availabilityZoneName":"US-
East1","engineId":1,"targetCloudId":null,"iaasProviderId":1,"createdDate":"2014-07-08
```

04:53:09","multiAzInstanceTypeId":0}]}}

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413), itemNotFound (404), serverCapacityUnavailable (503)
Custom Error Response Code(s):	queryFailed(1009), invalidParameterValue(1013), invalidAction(1001), entityAlreadyExist(1011), invalidRequest(1000)

5.2 Update Subscription

Http Method	URL	Description
PUT	/sql/api/v1/subscription	Updates the existing subscription.

Request Parameters:

Attribute	Type	Description	Required
ID	Integer	Unique ID of existing subscription.	Yes
name	String	Unique subscription name.	Yes
price	String	Subscription pricing in dollars($)	Yes
priceType	String	Subscription Duration Expected values: Monthly=1 OR Yearly=2	Yes
features	String	Salient Features /Description of the subscription.	Yes
storageSize	Integer	Size of storage. Valid Range:10 to 1024GB	Yes
multiNode	Integer	Number of instances want to provision.	Yes
iaasProviderId	Integer	Unique ID of IaaS Provider	Yes

imageInstanceTypeId	Integer	Unique ID of image instance type.	Yes
engineId	Integer	Unique ID of engine.	Yes
availabilityZone	String	This parameter holds the value of the Availability zone in which the instances is to be launched If target cloud is a VM pool, then this parameter is not mandatory.	Yes
availabilityZoneName	String	This parameter holds the value of the Availability zone name in which the instances is to be launched.If target cloud is a VM pool, then this parameter is not mandatory.	Yes
multiAZ	Integer	Mandatory when setting up Multi AZ redundant node Valid Values: multiAZ=0 for No, mulitAZ=1 for yes Supported only for Percona engine wherein (In case this flag is set, the parameters “multiAZAvailabilityZone” and “multiAZAvailabilityZoneName” are mandatory)	Yes
multiAzAvailabilityZone	String	Second Availability zone in which the secondary node of the Percona Multi AZ instances is to be launched This Is mandatory only if multiAZ value is 1.	No
multiAzAvailabilityZoneName	String	Second Availability zone name in which the secondary node of the Percona Multi AZ instances is to be launched This Is mandatory only if multiAZ value is 1.	No
multiAzInstanceTypeId	Integer	Unique ID of image instance type for secondary zone This Is mandatory only if multiAZ value is 1.	No

Example Request:

```
curl -i "http://localhost:8080/sql/api/v1/subscription/94" -X PUT -H "CL-AUTH-TOKEN:724234d3-0e7b-
493d-aa55-6c43a28222f4" -d'{"name": "SQLSubscription1","price": "$10","priceType": "1","features":
"Percona MultiAZ Instance<br>VMConfiguration:<br>Engine: Percona Server 5.5<br>IaaSProvider:
AmazonEC2<br>AvailabilityZone: us-east1<br>InstanceConfiguration:standard.xsmall-
1vCPU/1GBRAM/30GBHD-$1<br>No of Nodes: 1<br>Ext.Volume: 10GB<br>","storageSize":
"10","multiAZ": "1","multiAzInstanceTypeId": "1","multiAzAvailabilityZoneName":"US-
East1","multiAzAvailabilityZone":"us-east1","iaasProviderId": "1","availabilityZoneName": "US-
```

East1","availabilityZone": "us-east1","engineId": "3","imageInstanceTypeId": "1","multiNode": "1"}'

Example Response:
{"success":true,"errors":{},"response":{}}

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413), itemNotFound (404), serverCapacityUnavailable (503)
Custom Error Response Code(s):	queryFailed(1009), invalidParameterValue(1013), entityDoesNotExist(1012), invalidAction(1001), invalidRequest(1000)

5.3 Delete Subscription by ID

Http Method	URL	Description
DELETE	/sql/api/v1/subscription/<id>	Deletes the subscription by ID

Example Request:
curl -i "http://localhost:8080/sql/api/v1/subscription/94" -X DELETE -H "CL-AUTH-TOKEN:724234d3-0e7b-493d-aa55-6c43a28222f4"

Response Format:
{"success":true,"errors":{},"response":{}}

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413)
engineName	String
Custom Error Response Code(s):	queryFailed(1009), entityDoesNotExist(1012), invalidParameterValue(1013), invalidRequest(1000)

5.4 Get Subscription by ID

Http Method	URL	Description
GET	/sql/api/v1/subscription?id=<id>	Gets specific subscription.

Example Request:

```
curl -i "http://localhost:8080/sql/api/v1/subscription/294" -X GET -H "CL-AUTH-TOKEN:e67f8afb-f959-4669-8d14-6e5d6d015e1f"
```

Example Response:

```
{"success":true,"errors":{},"response":{"subscription":[{"ownerType":1,"priceType":1,"imageInstanceId":1,"multiAZ":1,"id":94,"multiAvailabilityZone":"us-east1","price":"$10","createdBy":1,"nodes":1,"name":"SQLSubscription1","availabilityZone":"us-east1","storageSize":10,"multiAZAvailabilityZoneName":"US-East1","feature":"Percona MultiAZ Instance<br>VMConfiguration:<br>Engine: Percona Server 5.5<br>IaaSProvider: AmazonEC2<br>AvailabilityZone: us-east1<br>InstanceConfiguration:standard.xsmall-1vCPU/1GBRAM/30GBHD-$1<br>No of Nodes: 1<br>Ext.Volume: 10GB<br>","availabilityZoneName":"US-East1","engineId":3,"targetCloudId":null,"iaasProviderId":1,"createdDate":"2014-07-08 05:23:10","multiAzInstanceTypeId":1}]}}
```

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413)
engineName	String
Custom Error Response Code(s):	queryFailed(1009), entityDoesNotExist(1012), invalidParameterValue(1013), invalidRequest(1000)

5.5 Get All Subscriptions

Http Method	URL	Description
GET	/sql/api/v1/subscription	Gets details of all SQL subscriptions.

Example Request:

```
curl -i "http://localhost:8080/sql/api/v1/subscription" -X GET -H "CL-AUTH-TOKEN:e67f8afb-
f959-4669-8d14-6e5d6d015e1f"
```

Example Response:

```
{"success":true,"errors":{},"response":{"subscription":[{"ownerType":1,"priceType":1,"imageInstanceI
d":1,"multiAZ":1,"id":94,"multiAvailabilityZone":"us-
east1","price":"$10","createdBy":1,"nodes":1,"name":"SQLSubscription1","availabilityZone":"us-
east1","storageSize":10,"multiAZAvailabilityZoneName":"US-East1","feature":"Percona MultiAZ
Instance<br>VMConfiguration:<br>Engine: Percona Server 5.5<br>IaaSProvider:
AmazonEC2<br>AvailabilityZone: us-east1<br>InstanceConfiguration:standard.xsmall-
1vCPU/1GBRAM/30GBHD-$1<br>No of Nodes: 1<br>Ext.Volume:
10GB<br>","availabilityZoneName":"US-
East1","engineId":3,"targetCloudId":null,"iaasProviderId":1,"createdDate":"2014-07-08
05:23:10","multiAzInstanceTypeId":1},{"ownerType":1,"priceType":1,"imageInstanceId":1,"multiAZ":1,"
id":96,"multiAvailabilityZone":"us-
east1","price":"$2","createdBy":1,"nodes":1,"name":"X","availabilityZone":"us-
east1","storageSize":10,"multiAZAvailabilityZoneName":"US-
East1","feature":"X","availabilityZoneName":"US-
East1","engineId":3,"targetCloudId":null,"iaasProviderId":1,"createdDate":"2014-07-08
05:21:23","multiAzInstanceTypeId":1},{"ownerType":1,"priceType":1,"imageInstanceId":1,"multiAZ":0,"
id":97,"multiAvailabilityZone":"","price":"$10","createdBy":1,"nodes":1,"name":"SQLSubscription2","av
ailabilityZone":"us-
east1","storageSize":10,"multiAZAvailabilityZoneName":"","feature":"MySQLServiceonStandaloneVM<
br>VMConfiguration:<br>Engine: MySQL5.5.27<br>IaaSProvider: AmazonEC2<br>AvailabilityZone:
us-east1<br>InstanceConfiguration:standard.xsmall-1vCPU/1GBRAM/30GBHD-$1<br>NoofNodes:
1<br>Ext.Volume: 10GB<br>","availabilityZoneName":"US-
East1","engineId":1,"targetCloudId":null,"iaasProviderId":1,"createdDate":"2014-07-08
05:24:32","multiAzInstanceTypeId":1}]}}
```

Response Code(s):

Normal Response Code(s):	200
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413)
Error Response Code(s):	computeFault (400, 500), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413)
Custom Error Response Code(s):	queryFailed(1009), invalidRequest(1000)