OpenStack Compute

Backup Schedule Extension

rackspace
HOSTING

docs.rackspace.com/api

OpenStack Compute Backup Schedule Extension

EXT v1.0 (2011-09-24)
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This document is intended for software developers interested in using the Disk Management Extension to the OpenStack Compute Application Programming Interface (API). The document is for informational purposes only and is provided "AS IS."

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1. About This Extension

Name	Backup Schedule Extension
Namespace	http://docs.rackspace.com/servers/api/ext/backup/v1.0
Alias	RAX-BAK
Contact	Gabe Westmaas `<gabe.westmaas@rackspace.com>`
Status	ALPHA
Version	v1.0 (2011-09-24)
Dependencies	OpenStack Compute API v1.1 (2011-09-08)
Doc Link (PDF)	http://docs.rackspacecloud.com/servers/api/ext/rax-backup.pdf
Doc Link (WADL)	http://docs.rackspacecloud.com/servers/api/ext/rax-backup/rax-backup.wadl
Doc Link (XSD)	http://docs.rackspacecloud.com/servers/api/ext/rax-backup/api.xsd
Short Description	Allows the schedule of periodic (daily and weekly) images from a server.

Example 1.1. Extension Query Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>

<extensions xmlns="http://docs.openstack.org/common/api/v1.0"
            xmlns:atom="http://www.w3.org/2005/Atom">
    <extension name="Backup Schedule Extension"
               namespace="http://docs.rackspace.com/servers/api/ext/
backup/v1.0"
               alias="RAX-BAK" updated="2011-09-12T10:40:00-04:00">
        <description>
            Allows the schedule of periodic (daily and
            weekly) images from a server.
        </description>
        <atom:link rel="describedby" type="application/pdf"
                   href="http://docs.rackspacecloud.com/servers/api/
ext/rax-backup.pdf"/>
        <atom:link rel="describedby" type="application/xml"
                   href="http://docs.rackspacecloud.com/servers/api/
ext/rax-backup/rax-backup.wadl"/>
    </extension>
</extensions>
```

Example 1.2. Extension Query Response: JSON

```
{
    "extensions": [
        {
            "name": "Backup Schedule Extension",
            "namespace": "http://docs.rackspace.com/servers/api/ext/
backup/v1.0",
            "alias": "RAX-BAK",
            "updated": "2011-09-12T10:40:00-04:00",
            "description": "Allows the schedule of periodic (daily and
 weekly) images from a server.",
            "links": [
                {
                    "rel": "describedby",
                    "type": "application/pdf",
                    "href": "http://docs.rackspacecloud.com/servers/
api/ext/rax-backup.pdf"
                },
                {
                    "rel": "describedby",
                    "type": "application/xml",
                    "href": "http://docs.rackspacecloud.com/servers/
api/ext/rax-backup/rax-backup.wadl"
                }
            ]
        }
    ]
}
```

1.1. Document Change History

The most recent changes to this document are desrcibed below.

Revision Date	Summary of Changes
Sep 24, 2011	• Switched /servers/id/OS-BAK/backup_schedule to /{tenantId}/servers/{serverId}/RAX-BAK/backup_schedule in new resource section.
Sep 12, 2011	• Initial release.

2. Summary of Changes

In addition to creating images on demand, the extension also alows the schedule of periodic (daily and weekly) images via a backup schedule. The daily and weekly images are triggered automatically based on the backup schedule established.

Verb	URI	Description
New Resources		
GET	`/{tenantId}/servers/{serverId}/ RAX-BAK/backup_schedule`	List the backup schedule for the specified server.
POST	`/{tenantId}/servers/{serverId}/ RAX-BAK/backup_schedule`	Set the backup schedule for the specified server.
DELETE	`/{tenantId}/servers/{serverId}/ RAX-BAK/backup_schedule`	Disables the backup schedule for the specified server.

2.1. New Headers

None.

2.2. New Faults

None.

2.3. New Resources

A new resource is created at /{tenantId}/servers/{serverId}/RAX-BAK/backup_schedule. A backup schedule can be defined to create server images at regular intervals (daily and weekly). Backup schedules are configurable per server.

Operations on a backup schedule are described below. The daily and weekly images are triggered automatically based on the backup schedule established. The days/times specified for the backup schedule are targets and actual start and completion times may vary based on other activity in the system. All backup times are in GMT.

Table 2.1. Weekly Backup Schedule

Value	Day
DISABLED	Weekly backup disabled
SUNDAY	Sunday
MONDAY	Monday
TUESDAY	Tuesday
WEDNESDAY	Wednesday
THURSDAY	Thursday
FRIDAY	Friday
SATURDAY	Saturday

Table 2.2. Daily Backup Schedule

Value	Hour Range
DISABLED	Daily backups disabled
H_0000_0200	0000-0200
H_0200_0400	0200-0400
H_0400_0600	0400-0600
H_0600_0800	0600-0800
H_0800_1000	0800-1000
H_1000_1200	1000-1200
H_1200_1400	1200-1400
H_1400_1600	1400-1600
H_1600_1800	1600-1800
H_1800_2000	1800-2000
H_2000_2200	2000-2200
H_2200_0000	2200-0000

2.3.1. List Backup Schedule

Verb	URI	Description
GET	/{tenantId}/servers/{serverId}/ RAX-BAK/backup_schedule	List the backup schedule for the specified server.

Normal Response Code(s): 200, 203

Error Response Code(s): computeFault (400, 500, ...), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413), itemNotFound (404)

This operations lists the backup schedule for the specified server.

Table 2.3. List Backup Schedule Request Parameters

Name	Style	Type	Description
tenantId	template	String	
serverId	template	UUID	

This operation does not require a request body.

Example 2.1. List Backup Schedule Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<backupSchedule
    xmlns="http://docs.rackspace.com/servers/api/ext/backup/v1.0"
    enabled="true" weekly="THURSDAY" daily="H_0400_0600"/>
```

Example 2.2. List Backup Schedule Response: JSON

```
{
    "RAX-BAK:backupSchedule" : {
        "enabled" : true,
        "weekly" : "THURSDAY",
        "daily" : "H_0400_0600"
    }
}
```

2.3.2. Set Backup Schedule

Verb	URI	Description
POST	`/{tenantId}/servers/{serverId}/` `RAX-BAK/backup_schedule`	Set the backup schedule for the specified server.

Normal Response Code(s): 204

Error Response Code(s): computeFault (400, 500, ...), backupOrResizeInProgress (409), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413), itemNotFound (404), badMediaType (415), buildInProgress (409)

This operation creates a new backup schedule or updates an existing backup schedule for the specified server. Backup schedules will occur only when the enabled attribute is set to true. The weekly and daily attributes can be used to set or to disable individual backup schedules.

Table 2.4. Set Backup Schedule Request Parameters

Name	Style	Type	Description
tenantId	template	String	
serverId	template	UUID	

Example 2.3. Set Backup Schedule Request: XML

```xml
<?xml version="1.0" encoding="UTF-8"?>
<backupSchedule
    xmlns="http://docs.rackspace.com/servers/api/ext/backup/v1.0"
    enabled="true" weekly="THURSDAY" daily="H_0400_0600"/>
```

Example 2.4. Set Backup Schedule Request: JSON

```json
{
    "RAX-BAK:backupSchedule" : {
        "enabled" : true,
        "weekly" : "THURSDAY",
        "daily" : "H_0400_0600"
    }
}
```

This operation does not return a response body.

2.3.3. Disable Backup Schedule

Verb	URI	Description
DELETE	/{tenantId}/servers/{serverId}/ RAX-BAK/backup_schedule	Disables the backup schedule for the specified server.

Normal Response Code(s): 204

Error Response Code(s): computeFault (400, 500, ...), backupOrResizeInProgress (409), serviceUnavailable (503), unauthorized (401), forbidden (403), badRequest (400), badMethod (405), overLimit (413), itemNotFound (404), buildInProgress (409)

This operation disables the backup schedule for the specified server.

Table 2.5. Disable Backup Schedule Request Parameters

Name	Style	Type	Description
tenantId	template	String	
serverId	template	UUID	

This operation does not require a request body and does not return a response body.

2.4. New Actions

None.