List Volumes: WADL

48 Lines of XML goes a long way

```
<method name="GET" id="listVolumes">
  <doc xml:lang="EN" title="List Volumes">
                                               You can see how most data
    <db:para role="shortdesc">
                                                 comes from the WADL
      List all volumes (IDs, names, links).
    </db:para>
    <db:para>
      A list of volumes. Each volume contains IDs, names, and
      links -- other attributes are omitted.
    </db:para>
  </doc>
  <request>
    <param name="changes-since" style="guery" required="false" type="xsd:dateTime"/>
    <param name="type" style="query" required="false" type="osapi:UUID"/>
    <param name="backup" style="query" required="false" type="osapi:UUID"/>
    <param name="name" style="query" required="false" type="xsd:string"/>
    <param name="marker" style="query" required="false" type="osapi:UUID"/>
    <param name="limit" style="guery" required="false" type="xsd:int"/>
  </request>
  <response status="200 203">
    <representation mediaType="application/xml" element="bs:volumes">
      <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.xml" />
       </doc>
    </representation>
    <representation mediaType="application/json">
      <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.json" />
       </doc>
    </representation>
  </response>
  <!-- Common Faults -->
  <response>
    <representation mediaType="application/xml" element="bs:blockstorageFault"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="503">
    <representation mediaType="application/xml" element="bs:serviceUnavailable"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="401">
    <representation mediaType="application/xml" element="bs:unauthorized"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="403">
    <representation mediaType="application/xml" element="bs:forbidden"/>
    <representation mediaType="application/json"/>
  </response>
</method>
```

Verb	URI	Description
GET	v1/{tenantId}/volumes?changes- since=dateTime&type=UUID& backup=UUID&name=string& marker=UUID&limit=int	List all volumes (IDs, names, links).

Normal Response Code(s): 200, 203

Error Response Code(s): blockstorageFault (400, 500, ...), serviceUnavailable (503), unauthorized (401), forbidden (403)

A list of volumes. Each volume contains IDs, names, and links – other attributes are omitted.

Table 4.1. List Volumes Request Parameters

Name	Style	Туре	Description
changes-since	query	DateTime	The changes-since parameter is optional.
type	query	UUID	The type parameter is optional.
backup	query	UUID	The backup parameter is optional.
name	query	String	The name parameter is optional.
marker	query	UUID	The marker parameter is optional.
limit	query	Int	The limit parameter is optional.
tenantId	template	String	A unique identifier for the tenant who owns the resource.

```
<?xml version="1.0" encoding="UTF-8"?>
<volumes xmlns="http://docs.openstack.org/block-storage/api/v1.0"</pre>
        xmlns:atom="http://www.w3.org/2005/Atom">
   <volume id="15e59938-07d5-11e1-90e3-e3dffe0c5983"</pre>
           name="Work">
       <atom:link
           rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
       <atom:link
            rel="bookmark"
           href="http://servers.api.openstack.org/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
   <volume id="4512308a-0808-11e1-bff3-83d5d70a461f"</pre>
           name="Home">
       <atom:link
           rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
       <atom:link
            rel="bookmark"
           href="http://servers.api.openstack.org/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
   </volume>
```

```
<method name="GET" id-"listVolumes">
  <doc xml:lang="EN" title="List Volumes">
    <db:para role="shortdesc">
      List all volumes (IDs, names, links).
    </db:para>
    <db:para>
      A list of volumes. Each volume contains IDs, names, and
      links -- other attributes are omitted.
    </db:para>
  </doc>
  <request>
    <param name="changes-since" style="guery" required="false" type="xsd:dateTime"/>
    <param name="type" style="query" required="false" type="osapi:UUID"/>
    <param name="backup" style="query" required="false" type="osapi:UUID"/>
     <param name="name" style="query" required="false" type="xsd:string"/>
    <param name="marker" style="query" required="false" type="osapi:UUID"/>
    <param name="limit" style="guery" required="false" type="xsd:int"/>
  </request>
  <response status="200 203">
    <representation mediaType="application/xml" element="bs:volumes">
       <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.xml" />
       </doc>
    </representation>
     <representation mediaType="application/json">
       <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.json" />
       </doc>
    </representation>
  </response>
  <!-- Common Faults -->
  <response>
    <representation mediaType="application/xml" element="bs:blockstorageFault"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="503">
    <representation mediaType="application/xml" element="bs:serviceUnavailable"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="401">
    <representation mediaType="application/xml" element="bs:unauthorized"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="403">
    <representation mediaType="application/xml" element="bs:forbidden"/>
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<volumes xmlns="http://docs.openstack.org/block-storage/api/v1.0"</pre>
        xmlns:atom="http://www.w3.org/2005/Atom">
   <volume id="15e59938-07d5-11e1-90e3-e3dffe0c5983"</pre>
           name="Work">
       <atom:link
           rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
       <atom:link
            rel="bookmark"
           href="http://servers.api.openstack.org/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
   <volume id="4512308a-0808-11e1-bff3-83d5d70a461f"</pre>
           name="Home">
       <atom:link
           rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
       <atom:link
            rel="bookmark"
           href="http://servers.api.openstack.org/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
   </volume>
```

```
<method name="GET" id="listVolumes">
  <doc xml:lang="EN" title="List Volumes">
    <db:para role="shortdesc">
      List all volumes (IDs, names, links).
    </db:para>
    <db:para>
      A list of volumes. Each volume contains IDs, names, and
      links -- other attributes are omitted.
    </db:para>
  </doc>
  <request>
    <param name="changes-since" style="guery" required="false" type="xsd:dateTime"/>
    <param name="type" style="query" required="false" type="osapi:UUID"/>
    <param name="backup" style="query" required="false" type="osapi:UUID"/>
    <param name="name" style="query" required="false" type="xsd:string"/>
    <param name="marker" style="query" required="false" type="osapi:UUID"/>
    <param name="limit" style="guery" required="false" type="xsd:int"/>
  </request>
  <response status="200 203">
    <representation mediaType="application/xml" element="bs:volumes">
       <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.xml" />
       </doc>
    </representation>
    <representation mediaType="application/json">
       <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.json" />
       </doc>
    </representation>
  </response>
  <!-- Common Faults -->
  <response>
    <representation mediaType="application/xml" element="bs:blockstorageFault"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="503">
    <representation mediaType="application/xml" element="bs:serviceUnavailable"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="401">
    <representation mediaType="application/xml" element="bs:unauthorized"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="403">
    <representation mediaType="application/xml" element="bs:forbidden"/>
    <representation mediaType="application/json"/>
  </response>
```

Verb	URI	Description
GET	v1/{tenantId}/volumes?changes-	List all volumes (IDs, names, links).
	since=dateTime&type=UUID& backup=UUID&name=string& marker=UUID&limit=int	

Normal Response Code(s): 200, 203

Error Response Code(s): blockstorageFault (400, 500, ...), serviceUnavailable (503), unauthorized (401), forbidden (403)

A list of volumes. Each volume contains IDs, names, and links – other attributes are omitted.

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Name	Style	Туре	Description
changes-since	query	DateTime	The changes-since parameter is optional.
type	query	UUID	The type parameter is optional.
backup	query	UUID	The backup parameter is optional.
name	query	String	The name parameter is optional.
marker	query	UUID	The marker parameter is optional.
limit	query	Int	The limit parameter is optional.
tenantId	template	String	A unique identifier for the tenant who owns the resource.

Example 4.1. List Volumes Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<volumes xmlns="http://docs.openstack.org/block-storage/api/v1.0"</pre>
        xmlns:atom="http://www.w3.org/2005/Atom">
   <volume id="15e59938-07d5-11e1-90e3-e3dffe0c5983"</pre>
           name="Work">
       <atom:link
           rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
       <atom:link
            rel="bookmark"
           href="http://servers.api.openstack.org/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
   <volume id="4512308a-0808-11e1-bff3-83d5d70a461f"</pre>
           name="Home">
       <atom:link
           rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
       <atom:link
            rel="bookmark"
           href="http://servers.api.openstack.org/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
   </volume>
```

</method>

411 List Volumes

```
<method name="GET" id="listVolumes">
  <doc xml:lang="EN" title="List Volumes">
    <db:para role="shortdesc">
      List all volumes (IDs, names, links).
    </db:para>
    <db:para>
      A list of volumes. Each volume contains IDs, names, and
      links -- other attributes are omitted.
    </db:para>
  </doc>
  <request>
    <param name="changes-since" style="guery" required="false" type="xsd:dateTime"/>
    <param name="type" style="query" required="false" type="osapi:UUID"/>
    <param name="backup" style="query" required="false" type="osapi:UUID"/>
    <param name="name" style="query" required="false" type="xsd:string"/>
    <param name="marker" style="query" required="false" type="osapi:UUID"/>
    <param name="limit" style="guery" required="false" type="xsd:int"/>
  </request>
  <response status="200 203">
    <representation mediaType="application/xml" element="bs:volumes">
       <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.xml" />
       </doc>
    </representation>
    <representation mediaType="application/json">
       <doc xml:lang="EN">
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       </doc>
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  <response>
    <representation mediaType="application/xml" element="bs:blockstorageFault"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="503">
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  <response status="403">
    <representation mediaType="application/xml" element="bs:forbidden"/>
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</method>
```

Verb	URI	Description
GET	v1/{tenantId}/volumes?changes- since=dateTime&type=UUID& backup=UUID&name=string& marker=UUID&limit=int	List all volumes (IDs, names, links).

Normal Response Code(s): 200, 203

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A list of volumes. Each volume contains IDs, names, and links – other attributes are omitted.

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<volumes xmlns="http://docs.openstack.org/block-storage/api/v1.0"</pre>
        xmlns:atom="http://www.w3.org/2005/Atom">
   <volume id="15e59938-07d5-11e1-90e3-e3dffe0c5983"</pre>
           name="Work">
       <atom:link
           rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
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            rel="bookmark"
           href="http://servers.api.openstack.org/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
   <volume id="4512308a-0808-11e1-bff3-83d5d70a461f"</pre>
           name="Home">
       <atom:link
           rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
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```

<method name="GET" id="listVolumes"> <doc xml:lang="EN" title="List Volumes"> <db:para role="shortdesc"> List all volumes (IDs, names, links). </db:para> <db:para> A list of volumes. Each volume contains IDs, names, and links -- other attributes are omitted. </db:para> </doc> <request> <param name="changes-since" style="guery" required="false" type="xsd:dateTime"/> <param name="type" style="query" required="false" type="osapi:UUID"/> <param name="backup" style="query" required="false" type="osapi:UUID"/> <param name="name" style="query" required="false" type="xsd:string"/> <param name="marker" style="query" required="false" type="osapi:UUID"/> <param name="limit" style="guery" required="false" type="xsd:int"/> </request> <response status="200 203"> <representation mediaType="application/xml" element="bs:volumes"> <doc xml:lang="EN"> <xsdxt:code href="samples/core/volumes-sparse.xml" /> </doc> </representation> <representation mediaType="application/json"> <doc xml:lang="EN"> <xsdxt:code href="samples/core/volumes-sparse.json" /> </doc> </representation> </response> <!-- Common Faults --> <response> <representation mediaType="application/xml" element="bs:blockstorageFault"/> <representation mediaType="application/json"/> </response> <response status="503"> <representation mediaType="application/xml" element="bs:serviceUnavailable"/> <representation mediaType="application/json"/> </response> <response status="401"> <representation mediaType="application/xml" element="bs:unauthorized"/> <representation mediaType="application/json"/> </response> <response status="403"> <representation mediaType="application/xml" element="bs:forbidden"/> <representation mediaType="application/json"/> </response> </method>

4.1.1.1. List Volumes

Verb	URI	Description
GET	v1/{tenantId}/volumes?changes- since=dateTime&type=UUID& backup=UUID&name=string& marker=UUID&limit=int	List all volumes (IDs, names, links).

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       <doc xml:lang="EN">
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  <response status="403">
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    <representation mediaType="application/json"/>
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Verb	URI	Description
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   <volume id="15e59938-07d5-11e1-90e3-e3dffe0c5983"</pre>
           name="Work">
       <atom:link
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           rel="self"
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            rel="bookmark"
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<method name="GET" id="listVolumes">
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  </request>
  <response status="200 203">
    <representation mediaType="application/xml" element="bs:volumes">
       <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.xml" />
       </doc>
    </representation>
    <representation mediaType="application/json">
       <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.json" />
       </doc>
    </representation>
  </response>
  <!-- Common Faults -->
  <response>
    <representation mediaType="application/xml" element="bs:blockstorageFault"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="503">
    <representation mediaType="application/xml" element="bs:serviceUnavailable"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="401">
    <representation mediaType="application/xml" element="bs:unauthorized"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="403">
    <representation mediaType="application/xml" element="bs:forbidden"/>
    <representation mediaType="application/json"/>
  </response>
</method>
```

Verb	URI	Description
GET	v1/{tenantId}/volumes?changes- since=dateTime&type=UUID& backup=UUID&name=string& marker=UUID&limit=int	List all volumes (IDs, names, links).

Normal Response Code(s): 200, 203

Error Response Code(s): blockstorageFault (400, 500, ...), serviceUnavailable (503), unauthorized (401), forbidden (403)

A list of volumes. Each volume contains IDs, names, and links – other attributes are omitted.

Table 4.1. List Volumes Request Parameters

Name	Style	Туре	Description
changes-since	query	DateTime	The changes-since parameter is optional.
type	query	UUID	The type parameter is optional.
backup	query	UUID	The backup parameter is optional.
name	query	String	The name parameter is optional.
marker	query	UUID	The marker parameter is optional.
limit	query	Int	The limit parameter is optional.
tenantId	template	String	A unique identifier for the tenant who owns the resource.

```
?xml version="1.0" encoding="UTF-8"?>
<volumes xmlns="http://docs.openstack.org/block-storage/api/v1.0"</pre>
         xmlns:atom="http://www.w3.org/2005/Atom">
   <volume id="15e59938-07d5-11e1-90e3-e3dffe0c5983"</pre>
            name="Work">
       <atom:link
           rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
       <atom:link
            rel="bookmark"
           href="http://servers.api.openstack.org/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
   <volume id="4512308a-0808-11e1-bff3-83d5d70a461f"</pre>
           name="Home">
       <atom:link
           rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
       <atom:link
            rel="bookmark"
           href="http://servers.api.openstack.org/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
   </volume>
```

```
<method name="GET" id="listVolumes">
  <doc xml:lang="EN" title="List Volumes">
    <db:para role="shortdesc">
      List all volumes (IDs, names, links).
    </db:para>
    <db:para>
      A list of volumes. Each volume contains IDs, names, and
      links -- other attributes are omitted.
    </db:para>
  </doc>
  <request>
    <param name="changes-since" style="guery" required="false" type="xsd:dateTime"/>
    <param name="type" style="query" required="false" type="osapi:UUID"/>
    <param name="backup" style="query" required="false" type="osapi:UUID"/>
     <param name="name" style="guery" required="false" type="xsd:string"/>
    <param name="marker" style="query" required="false" type="osapi:UUID"/>
    <param name="limit" style="query" required="false" type="xsd:int"/>
  </request>
  <response status="200 203">
    <representation mediaType="application/xml" element="bs:volumes">
       <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.xml" />
       </doc>
    </representation>
     <representation mediaType="application/json">
       <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.jsoj</pre>
       </doc>
    </representation>
  </response>
  <!-- Common Faults -->
  <response>
    <representation mediaType="application/xml" element="bs:blockstorageFault"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="503">
    <representation mediaType="application/xml" element="bs:serviceUnavailable"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="401">
    <representation mediaType="application/xml" element="bs:unauthorized"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="403">
    <representation mediaType="application/xml" element="bs:forbidden"/>
    <representation mediaType="application/json"/>
  </response>
</method>
```

Verb	URI	Description
GET	v1/{tenantId}/volumes?changes- since=dateTime&type=UUID& backup=UUID&name=string& marker=UUID&limit=int	List all volumes (IDs, names, links).

Normal Response Code(s): 200, 203

Error Response Code(s): blockstorageFault (400, 500, ...), serviceUnavailable (503), unauthorized (401), forbidden (403)

A list of volumes. Each volume contains IDs, names, and links – other attributes are omitted.

Table 4.1. List Volumes Request Parameters

Name	Style	Type	Description
changes-since	query	DateTime	The changes-since parameter is optional.
type	query	UUID	The type parameter is optional.
backup	query	UUID	The backup parameter is optional.
name	query	String	The name parameter is optional.
marker	query	UUID	The marker parameter is optional.
limit	query	Int	The limit parameter is optional.
tenantId	template	String	A unique identifier for the tenant who owns the resource.

```
<?xml version="1.0" encoding="UTF-8"?>
<volumes xmlns="http://docs.openstack.org/block-storage/api/v1.0"</pre>
        xmlns:atom="http://www.w3.org/2005/Atom">
   <volume id="15e59938-07d5-11e1-90e3-e3dffe0c5983"</pre>
            name="Work">
       <atom:link
           rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
       <atom:link
            rel="bookmark"
           href="http://servers.api.openstack.org/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
   <volume id="4512308a-0808-11e1-bff3-83d5d70a461f"</pre>
           name="Home">
       <atom:link
           rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
       <atom:link
            rel="bookmark"
           href="http://servers.api.openstack.org/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
   </volume>
```

```
<method name="GET" id="listVolumes">
  <doc xml:lang="EN" title="List Volumes">
    <db:para role="shortdesc">
                                              Theres are some important
      List all volumes (IDs, names, links).
                                                         subtleties....
    </db:para>
    <db:para>
      A list of volumes. Each volume contains IDs, names, and
      links -- other attributes are omitted.
    </db:para>
  </doc>
  <request>
    <param name="changes-since" style="guery" required="false" type="xsd:dateTime"/>
    <param name="type" style="query" required="false" type="osapi:UUID"/>
    <param name="backup" style="query" required="false" type="osapi:UUID"/>
    <param name="name" style="query" required="false" type="xsd:string"/>
    <param name="marker" style="query" required="false" type="osapi:UUID"/>
    <param name="limit" style="guery" required="false" type="xsd:int"/>
  </request>
  <response status="200 203">
    <representation mediaType="application/xml" element="bs:volumes">
      <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.xml" />
       </doc>
    </representation>
    <representation mediaType="application/json">
      <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.json" />
       </doc>
    </representation>
  </response>
  <!-- Common Faults -->
  <response>
    <representation mediaType="application/xml" element="bs:blockstorageFault"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="503">
    <representation mediaType="application/xml" element="bs:serviceUnavailable"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="401">
    <representation mediaType="application/xml" element="bs:unauthorized"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="403">
    <representation mediaType="application/xml" element="bs:forbidden"/>
    <representation mediaType="application/json"/>
  </response>
</method>
```

Verb	URI	Description
GET	v1/{tenantId}/volumes?changes- since=dateTime&type=UUID& backup=UUID&name=string& marker=UUID&limit=int	List all volumes (IDs, names, links).

Normal Response Code(s): 200, 203

Error Response Code(s): blockstorageFault (400, 500, ...), serviceUnavailable (503), unauthorized (401), forbidden (403)

A list of volumes. Each volume contains IDs, names, and links – other attributes are omitted.

Table 4.1. List Volumes Request Parameters

Name	Style	Туре	Description
changes-since	query	DateTime	The changes-since parameter is optional.
type	query	UUID	The type parameter is optional.
backup	query	UUID	The backup parameter is optional.
name	query	String	The name parameter is optional.
marker	query	UUID	The marker parameter is optional.
limit	query	Int	The limit parameter is optional.
tenantId	template	String	A unique identifier for the tenant who owns the resource.

```
<?xml version="1.0" encoding="UTF-8"?>
<volumes xmlns="http://docs.openstack.org/block-storage/api/v1.0"</pre>
        xmlns:atom="http://www.w3.org/2005/Atom">
   <volume id="15e59938-07d5-11e1-90e3-e3dffe0c5983"</pre>
           name="Work">
       <atom:link
           rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
       <atom:link
           href="http://servers.api.openstack.org/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
   <volume id="4512308a-0808-11e1-bff3-83d5d70a461f"</pre>
           name="Home">
       <atom:link
           rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
       <atom:link
            rel="bookmark"
           href="http://servers.api.openstack.org/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
   </volume>
```

<method name="GET" id="listVolumes"> <doc xml:lang="EN" title="List Volumes"> <db:para role="shortdesc"> List all volumes (IDs, names, links). Same Data. Two Views </db:para> <db:para> A list of volumes. Each volume contains IDs, names, and links -- other attributes are omitted. </db:para> </doc> <request> <param name="changes-since" style="query" requ</pre> ed="false" type="xsd:dateTime"/> <param name="type" style="query" required ralse" type="osapi:UUID"/> <param name="backup" style="query" required="false" type="osapi:UUID"/> <param name="name" style="query" required="false" type="xsd:string"/> <param name="marker" style="query"</pre> <param name="limit" style="guery" required="false" type="xsd:int"/> </request> <response status="200 203"> <representation mediaType="application/xml" element="bs:volumes"> <doc xml:lang="EN"> <xsdxt:code href="samples/core/volumes-sparse.xml" /> </doc> </representation> <representation mediaType="application/json"> <doc xml:lang="EN"> <xsdxt:code href="samples/core/volumes-sparse.json" /> </doc> </representation> </response> <!-- Common Faults --> <response> <representation mediaType="application/xml" element="bs:blockstorageFault"/> <representation mediaType="application/json"/> </response> <response status="503"> <representation mediaType="application/xml" element="bs:serviceUnavailable"/> <representation mediaType="application/json"/> </response> <response status="401"> <representation mediaType="application/xml" element="bs:unauthorized"/> <representation mediaType="application/json"/> </response> <response status="403"> <representation mediaType="application/xml" element="bs:forbidden"/> <representation mediaType="application/json"/> </response>

4.1.1.1. List Volumes

Verb	URI	Description
GET	v1/{tenantId}/volumes?changes- since=dateTime&type=UUID& backup=UUID&name=string& marker=UUID&limit=int	List all volumes (IDs, names, links).

Normal Response Code(s): 200, 203

Error Response Code(s): blockstorageFault (400, 500, ...), serviceUnavailable (503), unauthorized (401), forbidden (403)

A list of volumes. Each volume contains IDs, names, and links – other attributes are omitted.

Table 4.1. List Volumes Request Parameters

Name	Style	Туре	Description
changes-since	query	DateTime	The changes-since parameter is optional.
type	query	UUID	The type parameter is optional.
backup	query	UUID	The backup parameter is optional.
name	query	String	The name parameter is optional.
marker	query	UUID	The marker parameter is optional.
limit	query	Int	The limit parameter is optional.
tenantId	template	String	A unique identifier for the tenant who owns the resource.

Example 4.1. List Volumes Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<volumes xmlns="http://docs.openstack.org/block-storage/api/v1.0"</pre>
         xmlns:atom="http://www.w3.org/2005/Atom">
   <volume id="15e59938-07d5-11e1-90e3-e3dffe0c5983"</pre>
            name="Work">
       <atom:link
           rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
       <atom:link
            rel="bookmark"
           href="http://servers.api.openstack.org/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
   <volume id="4512308a-0808-11e1-bff3-83d5d70a461f"</pre>
           name="Home">
       <atom:link
            rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
       <atom:link
            rel="bookmark"
           href="http://servers.api.openstack.org/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
   </volume>
```

</method>

Automatically Generated Titles

4.1.1.1. List Volumes

```
<method name="GET" id="listVolumes">
  <doc xml:lang="EN" title="List Volumes">
    <db:para role="shortdesc">
      List all volumes (IDs, names, links).
    </db:para>
    <db:para>
      A list of volumes. Each volume contains IDs, names, and
      links -- other attributes are omitted.
    </db:para>
  </doc>
  <request>
    <param name="changes-since" style="query" required="false" type="xsd:dateTime"/>
    <param name="type" style="query" required="false" type="osapi:UUID 1>
    <param name="backup" style="query" required="false" type="osapi:UUID"/>
    <param name="name" style="guery" required="false" type="xsd:string"/>
    <param name="marker" style="query" required="false" type="osapi:UUID"/>
    <param name="limit" style="guery" required="false" type="xsd:int"/>
  </request>
  <response status="200 203">
    <representation mediaType="application/xml" element="bs:volumes">
       <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.xml" />
       </doc>
    </representation>
    <representation mediaType="application/json">
       <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.json" />
       </doc>
    </representation>
  </response>
  <!-- Common Faults -->
  <response>
    <representation mediaType="application/xml" element="bs:blockstorageFault"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="503">
    <representation mediaType="application/xml" element="bs:serviceUnavailable"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="401">
    <representation mediaType="application/xml" element="bs:unauthorized"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="403">
    <representation mediaType="application/xml" element="bs:forbidden"/>
    <representation mediaType="application/json"/>
  </response>
</method>
```

Verb	URI	Description
GET	v1/{tenantId}/volumes?changes- since=dateTime&type=UUID& backup=UUID&name=string& marker=UUID&limit=int	List all volumes (IDs, names, links).

Normal Response Code(s): 200, 203

Error Response Code(s): blockstorageFault (400, 500, ...), serviceUnavailable (503), unauthorized (401), forbidden (403)

A list of volumes. Each volume contains IDs, names, and links – other attributes are omitted.

◆ Table 4.1. List Volumes Request Parameters

Name	Style	Туре	Description
changes-since	query	DateTime	The changes-since parameter is optional.
type	query	UUID	The type parameter is optional.
backup	query	UUID	The backup parameter is optional.
name	query	String	The name parameter is optional.
marker	query	UUID	The marker parameter is optional.
limit	query	Int	The limit parameter is optional.
tenantId	template	String	A unique identifier for the tenant who owns the resource.

```
<?xml version="1.0" encoding="UTF-8"?>
<volumes xmlns="http://docs.openstack.org/block-storage/api/v1.0"</pre>
        xmlns:atom="http://www.w3.org/2005/Atom">
   <volume id="15e59938-07d5-11e1-90e3-e3dffe0c5983"</pre>
            name="Work">
       <atom:link
           rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
       <atom:link
            rel="bookmark"
           href="http://servers.api.openstack.org/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
   <volume id="4512308a-0808-11e1-bff3-83d5d70a461f"</pre>
           name="Home">
       <atom:link
           rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
       <atom:link
            rel="bookmark"
           href="http://servers.api.openstack.org/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
   </volume>
```

<method name="GET" id="listVolumes"> <doc xml:lang="EN" title="List Volumes"> <db:para role="shortdesc"> List all volumes (IDs, names, links). </db:para> <db:para> A list of volumes. Each volume contains IDs, names, and **Automatically** links -- other attributes are omitted. Generated Descriptions </db:para> </doc> <request> <param name="changes-since" style="guery" required="false" type="xsd:dateTime"/> <param name="type" style="query" required="false" type="osapi:UUID"/> <param name="backup" style="guery" required="false" type="osapi:UUID"/> ____ <param name="name" style="query" required="false" type="xsd:string"/> <param name="marker" style="query" required="false" type="osapi:UUID"/> <param name="limit" style="guery" required="false" type="xsd:int"/> </request> <response status="200 203"> <representation mediaType="application/xml" element="bs:volumes"> <doc xml:lang="EN"> <xsdxt:code href="samples/core/volumes-sparse.xml" /> </doc> </representation> <representation mediaType="application/json"> <doc xml:lang="EN"> <xsdxt:code href="samples/core/volumes-sparse.json" /> </doc> </representation> </response> <!-- Common Faults --> <response> <representation mediaType="application/xml" element="bs:blockstorageFault"/> <representation mediaType="application/json"/> </response> <response status="503"> <representation mediaType="application/xml" element="bs:serviceUnavailable"/> <representation mediaType="application/json"/> </response> <response status="401"> <representation mediaType="application/xml" element="bs:unauthorized"/> <representation mediaType="application/json"/> </response> <response status="403"> <representation mediaType="application/xml" element="bs:forbidden"/> <representation mediaType="application/json"/> </response>

4.1.1.1. List Volumes

Verb	URI	Description
GET	v1/{tenantId}/volumes?changes- since=dateTime&type=UUID& backup=UUID&name=string& marker=UUID&limit=int	List all volumes (IDs, names, links).

Normal Response Code(s): 200, 203

Error Response Code(s): blockstorageFault (400, 500, ...), serviceUnavailable (503), unauthorized (401), forbidden (403)

A list of volumes. Each volume contains IDs, names, and links – other attributes are omitted.

Table 4.1. List Volumes Request Parameters

Name	Style	Туре	Description
changes-since	query	DuteTim	The changes-since parameter is optional.
type	query	UUID	The type parameter is optional.
backup	query	UUID	The backup parameter is optional.
name	query	String	The name parameter is optional.
marker	query	UUID	The marker parameter is optional.
limit	query	Int	The limit parameter is optional.
tenantId	template	String	A unique identifier for the tenant who owns the resource.

Example 4.1. List Volumes Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<volumes xmlns="http://docs.openstack.org/block-storage/api/v1.0"</pre>
        xmlns:atom="http://www.w3.org/2005/Atom">
   <volume id="15e59938-07d5-11e1-90e3-e3dffe0c5983"</pre>
           name="Work">
       <atom:link
           rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
       <atom:link
            rel="bookmark"
           href="http://servers.api.openstack.org/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
   <volume id="4512308a-0808-11e1-bff3-83d5d70a461f"</pre>
           name="Home">
       <atom:link
           rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
       <atom:link
            rel="bookmark"
           href="http://servers.api.openstack.org/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
   </volume>
```

</method>

```
<method name="GET" id="listVolumes">
  <doc xml:lang="EN" title="List Volumes">
                                                         Generated Text means
    <db:para role="shortdesc">
      List all volumes (IDs, names, links).
                                                         less text to translate.
    </db:para>
    <db:para>
                                                             Easy to make big
      A list of volumes. Each volume contains IDs, names, and
                                                                   changes.
      links -- other attributes are omitted.
    </db:para>
                                                            More Consistent.
  </doc>
  <request>
    <param name="changes-since" style="guery" required="false" type="xsd:dateTime"/>
    <param name="type" style="query" required="false" type="osapi:UUID />
    <param name="backup" style="guery" required="false" type="osapi:UUID"/> ____
    <param name="name" style="guery" required="false" type="xsd:string"/>
    <param name="marker" style="query" required="false" type="osapi:UUID"/>
    <param name="limit" style="guery" required="false" type="xsd:int"/>
  </request>
  <response status="200 203">
    <representation mediaType="application/xml" element="bs:volumes">
      <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.xml" />
       </doc>
    </representation>
    <representation mediaType="application/json">
      <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.json" />
       </doc>
    </representation>
  </response>
  <!-- Common Faults -->
  <response>
    <representation mediaType="application/xml" element="bs:blockstorageFault"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="503">
    <representation mediaType="application/xml" element="bs:serviceUnavailable"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="401">
    <representation mediaType="application/xml" element="bs:unauthorized"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="403">
    <representation mediaType="application/xml" element="bs:forbidden"/>
    <representation mediaType="application/json"/>
  </response>
</method>
```

Verb	URI	Description
GET	v1/{tenantId}/volumes?changes- since=dateTime&type=UUID& backup=UUID&name=string& marker=UUID&limit=int	List all volumes (IDs, names, links).

Normal Response Code(s): 200, 203

Error Response Code(s): blockstorageFault (400, 500, ...), serviceUnavailable (503), unauthorized (401), forbidden (403)

A list of volumes. Each volume contains IDs, names, and links – other attributes are omitted.

Table 4.1. List Volumes Request Parameters

Name	Style	Туре	Description
changes-since	query	DateTim	The changes-since parameter is optional.
type	query	UUID	The type parameter is optional.
backup	query	UUID	The backup parameter is optional.
name	query	String	The name parameter is optional.
marker	query	UUID	The marker parameter is optional.
limit	query	Int	The limit parameter is optional.
tenantId	template	String	A unique identifier for the tenant who owns the resource.

```
<?xml version="1.0" encoding="UTF-8"?>
<volumes xmlns="http://docs.openstack.org/block-storage/api/v1.0"</pre>
         xmlns:atom="http://www.w3.org/2005/Atom">
   <volume id="15e59938-07d5-11e1-90e3-e3dffe0c5983"</pre>
            name="Work">
       <atom:link
           rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
       <atom:link
            href="http://servers.api.openstack.org/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
   <volume id="4512308a-0808-11e1-bff3-83d5d70a461f"</pre>
           name="Home">
       <atom:link
            rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
       <atom:link
            rel="bookmark"
           href="http://servers.api.openstack.org/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
   </volume>
```

Tenantld is implied by the location of Method

4.1.1.1. List Volumes

```
<method name="GET" id="listVolumes">
  <doc xml:lang="EN" title="List Volumes">
                                                       in WADI
    <db:para role="shortdesc">
      List all volumes (IDs, names, links).
    </db:para>
    <db:para>
      A list of volumes. Each volume contains IDs, names, and
      links -- other attributes are omitted.
    </db:para>
  </doc>
  <request>
    <param name="changes-since" style="guery" required="false" type="xsd:dateTime"/>
    <param name="type" style="query" required="false" type="osapi:UUID"/>
    <param name="backup" style="query" required="false" type="osapi:UUID"/>
    <param name="name" style="guery" required="false" type="xsd:string"/>
    <param name="marker" style="query" required="false" type="osapi:UUID"/>
    <param name="limit" style="guery" required="false" type="xsd:int"/>
  </request>
  <response status="200 203">
    <representation mediaType="application/xml" element="bs:volumes">
      <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.xml" />
       </doc>
    </representation>
    <representation mediaType="application/json">
      <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.json" />
       </doc>
    </representation>
  </response>
  <!-- Common Faults -->
  <response>
    <representation mediaType="application/xml" element="bs:blockstorageFault"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="503">
    <representation mediaType="application/xml" element="bs:serviceUnavailable"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="401">
    <representation mediaType="application/xml" element="bs:unauthorized"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="403">
```

<representation mediaType="application/xml" element="bs:forbidden"/>

<representation mediaType="application/json"/>

Verb	URI	Description
CET	tenantId}/volumes?changes- since=dateTime&type=UUID& backup=UUID&name=string& marker=UUID&limit=int	List all volumes (IDs, names, links).

Normal Response Code(s): 200, 203

Error Response Code(s): blockstorageFault (400, 500, ...), serviceUnavailable (503), unauthorized (401), forbidden (403)

A list of volumes. Each volume contains IDs, names, and links – other attributes are omitted.

Table 4.1. List Volumes Request Parameters

Name	Style	Type	Description
changes-since	query	DateTime	The changes-since parameter is optional.
type	query	UUID	The type parameter is optional.
backup	query	UUID	The backup parameter is optional.
name	query	String	The name parameter is optional.
marker	query	UUID	The marker parameter is optional.
limit	query	Int	The limit parameter is optional.
tenantId	template	String	A unique identifier for the tenant who owns the resource.

Example 4.1. List Volumes Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<volumes xmlns="http://docs.openstack.org/block-storage/api/v1.0"</pre>
        xmlns:atom="http://www.w3.org/2005/Atom">
   <volume id="15e59938-07d5-11e1-90e3-e3dffe0c5983"</pre>
           name="Work">
       <atom:link
           rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
       <atom:link
            rel="bookmark"
           href="http://servers.api.openstack.org/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
   <volume id="4512308a-0808-11e1-bff3-83d5d70a461f"</pre>
           name="Home">
       <atom:link
           rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
       <atom:link
            rel="bookmark"
           href="http://servers.api.openstack.org/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
   </volume>
```

</response>

</method>

Automatic Entry in Summary Table

```
<method name="GET" id="listVolumes"> ...
  <doc xml:lang="EN" title="List Volumes">
    <db:para role="shortdesc">
      List all volumes (IDs, names, links).
    </db:para>
    <db:para>
      A list of volumes. Each volume contains IDs, names, and
      links -- other attributes are omitted.
    </db:para>
  </doc>
  <request>
    <param name="changes-since" style="guery" required="false" type="xsd:dateTime"/>
    <param name="type" style="query" required="false" type="osapi:UUID"/>
    <param name="backup" style="guery" required="false" type="osapi:UUID"/>
    <param name="name" style="guery" required="false" type="xsd:string"/>
    <param name="marker" style="query" required="false" type="osapi:UUID"/>
    <param name="limit" style="guery" required="false" type="xsd:int"/>
  </request>
  <response status="200 203">
    <representation mediaType="application/xml" element="bs:volumes">
       <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.xml" />
       </doc>
    </representation>
    <representation mediaType="application/json">
       <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.json" />
       </doc>
    </representation>
  </response>
  <!-- Common Faults -->
  <response>
    <representation mediaType="application/xml" element="bs:blockstorageFault"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="503">
    <representation mediaType="application/xml" element="bs:serviceUnavailable"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="401">
    <representation mediaType="application/xml" element="bs:unauthorized"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="403">
    <representation mediaType="application/xml" element="bs:forbidden"/>
    <representation mediaType="application/json"/>
  </response>
</method>
```

Vest	LIDI	Paraminetian			
Verb	URI	Description			
	Volume Lists				
GET	v1/{tenantId}/volumes	List all volumes (IDs, names, links).			
GET	v1/{tenantId}/volumes/detail	List all volumes (all details).			
	Volume (Opreations			
POST	v1/{tenantId}/volumes	Creates a new volume.			
PUT	v1/{tenantId}/volumes/{id}	Update the specified volume's name.			
GET	v1/{tenantId}/volumes/{id}	List details of the specified volume.			
DELETE	v1/{tenantId}/volumes/{id}	Delete the volume.			
	Volume	Metadata			
PUT	v1/{tenantId}/volumes/{id}/ metadata	Set metadata.			
POST	v1/{tenantId}/volumes/{id}/ metadata	Update metadata items.			
GET	v1/{tenantId}/volumes/{id}/ metadata	List metadata associated with the resource.			
GET	v1/{tenantId}/volumes/{id}/ metadata/{key}	Get a metadata item associated with a resource.			
PUT	v1/{tenantId}/volumes/{id}/ metadata/{key}	Set metadata item.			
DELETE	v1/{tenantId}/volumes/{id}/ metadata/{key}	Delete a metadata item.			
Backup Lists					
GET	v1/{tenantId}/backups	List all backups (IDs, names, links).			
GET	v1/{tenantId}/backups/detail	List all backups (all details).			
	Backup Opreations				
POST	v1/{tenantId}/backups	Creates a new backup.			
PUT	v1/{tenantId}/backups/{id}	Update the specified backup's name.			
GET	v1/{tenantId}/backups/{id}	List details of the specified backup.			
DELETE	v1/{tenantId}/backups/{id}	Delete the backup.			
	Backup	Metadata			
PUT	v1/{tenantId}/backups/{id}/ metadata	Set metadata.			
POST	v1/{tenantId}/backups/{id}/ metadata	Update metadata items.			
GET	v1/{tenantId}/backups/{id}/ metadata	List metadata associated with the resource.			
GET	v1/{tenantId}/backups/{id}/ metadata/{key}	Get a metadata item associated with a resource.			
PUT	v1/{tenantId}/backups/{id}/ metadata/{key}	Set metadata item.			
DELETE	v1/{tenantId}/backups/{id}/ metadata/{key}	Delete a metadata item.			
	Ту	rpes			
GET	v1/{tenantId}/types	List all types.			
GET	v1/{tenantId}/types/{id}	List details of the specified type.			

```
<method name="GET" id="listVolumes">
  <doc xml:lang="EN" title="List Volumes">
    <db:para role="shortdesc">
      List all volumes (IDs, names, links).
    </db:para>
                                                              Alternate Formats
    <db:para>
      A list of volumes. Each volume contains IDs, names, and
      links -- other attributes are omitted.
    </db:para>
  </doc>
  <request>
    <param name="changes-since" style="guery" required="false" type="xsd:dateTime"/>
    <param name="type" style="query" required="false" type="osapi:UUID"/>
    <param name="backup" style="query" required="false" type="osapi:UUID"/>
    <param name="name" style="guery" required="false" type="xsd:string"/>
    <param name="marker" style="query" required="false" type="osapi:UUID"/>
    <param name="limit" style="guery" required="false" type="xsd:int"/>
  </request>
  <response status="200 203">
    <representation mediaType="application/xml" element="bs:volumes">
      <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.xml" />
      </doc>
    </representation>
    <representation mediaType="application/json">
      <doc xml:lang="EN">
         <xsdxt:code href="samples/core/volumes-sparse.json" />
       </doc>
    </representation>
  </response>
  <!-- Common Faults -->
  <response>
    <representation mediaType="application/xml" element="bs:blockstorageFault"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="503">
    <representation mediaType="application/xml" element="bs:serviceUnavailable"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="401">
    <representation mediaType="application/xml" element="bs:unauthorized"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="403">
    <representation mediaType="application/xml" element="bs:forbidden"/>
    <representation mediaType="application/json"/>
  </response>
</method>
```

Volume

The Volume API allows you to manage volumes and snapshots that can be used with the Compute API.

POST v1/{tenant_id}/volumes Create a Volume.

GET v1/{tenant_id}/volumes List all volumes (IDs, names, links).

```
<method name="GET" id="listVolumes">
  <doc xml:lang="EN" title="List Volumes">
     <db:para role="shortdesc">
       List all volumes (IDs, names, links).
     </db:para>
     <db:para>
       A list of volumes. Each volume contains IDs, names, and
       links -- other attributes are omitted.
     </db:para>
  </doc>
  <request>
                                                                                                                                         GET
     <param name="changes-since" style="guery" required="false" type="xsd:dateTime"/>
                                                                                                                                      (Get Extension)
                                                                                                                       (alias)
     <param name="type" style="query" required="false" type="osapi:UUID"/>
                                                                                                                                                               GET
     <param name="backup" style="query" required="false" type="osapi:UUID"/>
                                                                                                                                          detail
                                                                                                                                                        (Detailed List Backups)
                                                                                                                       GET
     <param name="name" style="guery" required="false" type="xsd:string"/>
                                                                                                  extensions
                                                                                                                   (List Extensions)
                                                                                                                                          GET
                                                                                                                                                       PUT
(Update Backup Name)
     <param name="marker" style="query" required="false" type="osapi:UUID"/>
                                                                                                                                      (List Backups)
     <param name="limit" style="guery" required="false" type="xsd:int"/>
  </request>
                                                                                                                      backups
                                                                                                                                      (Create Backup)
                                                                                                                                                         (Get Backup Details)
  <response status="200 203">
     <representation mediaType="application/xml" element="bs:volumes">
                                                                                                                                                             DELETE
                                                                                                                                        osapi:uuid
                                                                                                                                          (id)
                                                                                                                                                           (Delete Backup)
       <doc xml:lang="EN">
                                                                                                                                                                                   osapi:MetadataKey
                                                                                                                                                                                         (key)
          <xsdxt:code href="samples/core/volumes-sparse.xml" />
                                                                                                                                         GET
                                                                                                                                                             metadata
                                                                                                                                       (List Types)
       </doc>
                                                                                                                                                                               PUT
(Create or Replace Metadata)
                                                                     START
                                                                                                                     types
                                                                                                  (tenantId)
     </representation>
                                                                                                                                                               GET
                                                                                                                                        osapi:uuid
                                                                                                                                                          (Get Type Details)
     <representation mediaType="application/json">
                                                                                                                                                                                         POST
       <doc xml:lang="EN">
                                                                                                (Version Details)
                                                                                                                                                                                    (Update Metadata)
                                                                                                                       limits
                                                                                                                                         GET
          <xsdxt:code href="samples/core/volumes-sparse.json" />
                                                                                                                                                       (Detailed List Volumes)
                                                                                                                                       (List Limits)
                                                                                                                                                                                         GET
        </doc>
                                                                                                                                                                                     (List Metadata)
                                                                                                                                         detail
                                                                                                                                                             metadata
     </representation>
                                                                                                                                                                                   osapi:MetadataKey
  </response>
                                                                                                                                                                                         (key)
                                                                                                                                                             DELETE
                                                                                                                                        osapi:uuid
  <!-- Common Faults -->
                                                                                                                                          (id)
                                                                                                                                                           (Delete Volume)
  <response>
                                                                                                                                         GET
                                                                                                                                                               PUT
     <representation mediaType="application/xml" element="bs:blockstorageFault"/>
                                                                                                                                      (List Volumes)
                                                                                                                                                        (Update Volume Name)
     <representation mediaType="application/json"/>
                                                                                                           Map View
  </response>
                                                                                                                                      (Create Volume)
                                                                                                                                                         (Get Volume Details)
  <response status="503">
     <representation mediaType="application/xml" element="bs:serviceUnavailable"/>
     <representation mediaType="applicaiton/json"/>
  </response>
  <response status="401">
     <representation mediaType="application/xml" element="bs:unauthorized"/>
     <representation mediaType="application/json"/>
  </response>
```

</response>

</method>

<response status="403">

<representation mediaType="application/xml" element="bs:forbidden"/>

<representation mediaType="application/json"/>

```
<method name="GET" id="listVolumes">
  <doc xml:lang="EN" title="List Volumes">
    <db:para role="shortdesc">
       List all volumes (IDs, names, links).
    </db:para>
    <db:para>
       A list of volumes. Each volume contains IDs, names, and
       links -- other attributes are omitted.
    </db:para>
  </doc>
  <request>
    <param name="changes-since" style="guery" required="false" type="xsd:dateTime"/>
    <param name="type" style="query" required="false" type="osapi:UUID"/>
    <param name="backup" style="guery" required="false" type="osapi:UUID"/>
     <param name="name" style="guery" required="false" type="xsd:string"/>
    <param name="marker" style="query" required="false" type="osapi:UUID"/>
    <param name="limit" style="guery" required="false" type="xsd:int"/>
  </request>
  <response status="200 203">
                                                                               State Machine to Validate
    <representation mediaType="application/xml" element="bs:volumes">
                                                                                the Method at Runtime
       <doc xml:lang="EN">
                                                                                                                                                                 d31e5976
         <xsdxt:code href="samples/core/volumes-sparse.xml" />
                                                                                                                                      M (POST
                                                                                                                                                       M (POST)
       </doc>
    </representation>
                                                                                                                                                                                 d31e6206
                                                                                                                                                                          M (PUT)
     <representation mediaType="application/json">
                                                                                                                                                       osapi:MetadataKey)
                                                                                                                                                                d31e1821
                                                                                                                                                                         M (DELETE)
       <doc xml:lang="EN">
                                                                                                                                                                                 d31e5816
         <xsdxt:code href="samples/core/volumes-sparse.json" />
                                                                                                                                                                  M (GET)
       </doc>
                                                                                                                                                       M (DELETE
    </representation>
  </response>
                                                                                                                                                        U(.*)
                                                                                                             d31e472
  <!-- Common Faults -->
                                                                                                                      U (detail)
                                                                                                                                              M (GET)
  <response>
    <representation mediaType="application/xml" element="bs:blockstorageFault"/>
                                                                                                                                                                                d31e12
    <representation mediaType="application/json"/>
                                                                                                                                                        M (GET
                                                                                                                      U (detail
                                                                                                                                              M (GET)
  </response>
  <response status="503">
                                                                                             d31e368
                                                                                                                                                                  M (GET)
                                                                                                                      U (types)
    <representation mediaType="application/xml" element="bs:serviceUnavailable"/>
                                                                                                                                                                          M (GET)
                                                                                                                                                       U (osapi:uuid
    <representation mediaType="application/json"/>
  </response>
  <response status="401">
                                                                                                                              M (GET)
    <representation mediaType="application/xml" element="bs:unauthorized"/>
    <representation mediaType="application/json"/>
  </response>
  <response status="403">
    <representation mediaType="application/xml" element="bs:forbidden"/>
    <representation mediaType="application/json"/>
  </response>
</method>
```

List Volumes: DocBook Only

135 Lines of XML doesn't quite go as far

```
<section>
 <title>List Volumes</title>
                                                                  <tr>
 <informaltable rules="all">
                                                                   <col width="10%"/>
                                                                     <code role="hyphenate-true">changes-since</code>
   <col width="40%"/>
   <col width="50%"/>
                                                                   query
                                                                   DateTime
   <thead>
     >
       Verb
                                                                     <para>The <code role="hyphenate-true">changes-since</code> parameter is
       URI
                                                                       optional. </para>
       Description
                                                                   </thead>
                                                                  <code role="hyphenate-true">type</code>
     \langle tr \rangle
       <command>GET</command>
                                                                   query
                                                                   UUID
       <code>v1/{tenantId}/volumes?changes-since=<replaceable>dateTime/
                                                                     <para>The <code role="hyphenate-true">type</code> parameter is optional. </para>
replaceable>&type=<replaceable>UUID</
                                                                   replaceable>&backup=<replaceable>UUID</
                                                                  replaceable>&name=<replaceable>string</
                                                                  >
replaceable>&marker=<replaceable>UUID</replaceable>&amp;limit=<replaceable>int</
                                                                   <code role="hyphenate-true">backup</code>
replaceable></code>
       List all volumes (IDs, names, links). 
                                                                   guery
     UUID
   </informaltable>
                                                                     <para>The <code role="hyphenate-true">backup</code> parameter is optional.
 <simpara> Normal Response Code(s): <returnvalue>200</returnvalue>,
                                                                     </para>
     <returnvalue>203</returnvalue></simpara>
                                                                   <simpara> Error Response Code(s): blockstorageFault (<errorcode>400</errorcode>,
                                                                  <returnvalue>500</returnvalue>, <returnvalue>&#8230;</returnvalue>),
                                                                  <tr>
serviceUnavailable
                                                                   (<errorcode>503</errorcode>), unauthorized (<errorcode>401</errorcode>), forbidden
                                                                     <code role="hyphenate-true">name</code>
     (<errorcode>403</errorcode>) </simpara>
                                                                   query
 <para> A list of
                                                                   String
   volumes. Each volume contains IDs, names, and links -- other attributes are omitted. ✓
                                                                   para>
 <para>The <code role="hyphenate-true">name</code> parameter is optional. </para>
   <caption>List Volumes Request Parameters/caption>
                                                                   <col width="30%"/>
                                                                  <col width="10%"/>
                                                                  <col width="10%"/>
                                                                   <col width="40%"/>
                                                                     <code role="hyphenate-true">marker</code>
   <thead>
                                                                   guery
     >
                                                                   UUID
       Name
       Style
       Type
                                                                     <para>The <code role="hyphenate-true">marker</code> parameter is optional.
       Description
                                                                     </para>
     /thead>
```

```
<section>
 <title>List Volumes</title>
                       Here, we're talking tables, sections, paragraphs
 <informaltable rules="all">
                                   Great for Narrative Text,
   <col width="10%"/>
   <col width="40%"/>
                                    but doesn't capture the
   <col width="50%"/>
   <thead>
                                  API operation semantically
     Verb
       URI
       Description
     </thead>
   >
       <command>GET</command>
       <code>v1/{tenantId}/volumes&#8203;?changes-since=
<replaceable>dateTime</replaceable>&amp;&#8203;type=<replaceable>UUID</replaceable>
&​backup=<replaceable>UUID</replaceable>&amp;&#8203;name=
<replaceable>string</replaceable>&amp;&#8203;marker=<replaceable>UUID</replaceable>
&​limit=<replaceable>int</replaceable></code>
       List all volumes (IDs, names, links). 
     </informaltable>
 <simpara> Normal Response Code(s): <returnvalue>200</returnvalue>,
     <returnvalue>203</returnvalue></simpara>
 <simpara> Error Response Code(s): blockstorageFault (<errorcode>400</errorcode>.
     <returnvalue>500</returnvalue>, <returnvalue>&#8230;</returnvalue>), serviceUnavailable
     (<errorcode>503</errorcode>), unauthorized (<errorcode>401</errorcode>), forbidden
     (<errorcode>403</errorcode>) </simpara>
 <para> A list of
   volumes. Each volume contains IDs, names, and links -- other attributes are omitted. </para>
 <caption>List Volumes Request Parameters/caption>
   <col width="30%"/>
   <col width="10%"/>
   <col width="10%"/>
   <col width="40%"/>
   <thead>
     >
       Name
       Style
       Type
       Description
     </thead>
```

Verb	URI	Description
GET	v1/{tenantId}/volumes?changes- since=dateTime&type=UUID& backup=UUID&name=string& marker=UUID&limit=int	List all volumes (IDs, names, links).

Normal Response Code(s): 200, 203

Error Response Code(s): blockstorageFault (400, 500, ...), serviceUnavailable (503), unauthorized (401), forbidden (403)

A list of volumes. Each volume contains IDs, names, and links – other attributes are omitted.

Table 4.1. List Volumes Request Parameters

Name	Style	Туре	Description
changes-since	query	DateTime	The changes-since parameter is optional.
type	query	UUID	The type parameter is optional.
backup	query	UUID	The backup parameter is optional.
name	query	String	The name parameter is optional.
marker	query	UUID	The marker parameter is optional.
limit	query	Int	The limit parameter is optional.
tenantId	template	String	A unique identifier for the tenant who owns the resource.

```
<?xml version="1.0" encoding="UTF-8"?>
<volumes xmlns="http://docs.openstack.org/block-storage/api/v1.0"</pre>
         xmlns:atom="http://www.w3.org/2005/Atom">
    <volume id="15e59938-07d5-11e1-90e3-e3dffe0c5983"</pre>
            name="Work">
        <atom:link
            rel="self"
            href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
        <atom:link
            rel="bookmark'
            href="http://servers.api.openstack.org/1234/OS-BS/volumes/
15e59938-07d5-11e1-90e3-e3dffe0c5983"/>
    <volume id="4512308a-0808-11e1-bff3-83d5d70a461f"</pre>
            name="Home">
        <atom:link
            rel="self"
            href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
        <atom:link
            rel="bookmark"
            href="http://servers.api.openstack.org/1234/OS-BS/volumes/
4512308a-0808-11e1-bff3-83d5d70a461f"/>
    </volume>
```

```
<section>
 <title>List Volumes</title>
 <informaltable rules="all">
   <col width="10%"/>
                                   Repeditive data,
   <col width="40%"/>
   <col width="50%"/>
                    Parameter info listed twice it two formats.
   <thead>
     >
                                 This is error prone.
       Verb
       URI
       Description
     </thead>
   <command>GET</command>
       <code>v1/{tenantId}/volumes?changes-since=<replaceable>dateTime</
replaceable>&type=<replaceable>UUID</
replaceable>&backup=<replaceable>UUID</
replaceable>&name=<replaceable>string</
replaceable>&marker=<replaceable>UUID</replaceable>&amp;limit=<replaceable>int</
replaceable></code>
       List all volumes (IDs, names, links). 
     </informaltable>
  <simpara> Normal Response Code(s): <returnvalue>200</returnvalue>,
     <returnvalue>203</returnvalue></simpara>
 <simpara> Error Response Code(s): blockstorageFault (<errorcode>400
                                                          rrorcode>.
     <returnvalue>500</returnvalue>, <returnvalue>&#8230;</returnvalue>),
serviceUnavailable
     (<errorcode>503</errorcode>), unauthorized (<errorcode>401</errorcode>), forbidden
     (<errorcode>403</errorcode>) </simpara>
 <para> A list of
   volumes. Each volume contains IDs, names, and links—other attributes are omitted. </
 <caption>List Volumes Request Parameters
   <col width="30%"/>
   <col width="10%"/>
   <col width="10%"/>
   <col width="40%"/>
   <thead>
     Name
       Style
       Type
       Description
     </thead>
```

Verb	URI	Description
GET	v1/{tenantId}/volumes?changes- since=dateTime&type=UUID& backup=UUID&name=string& marke=UUID&limit=int	List all volumes (IDs, names, links).

Normal Response Code(s): 200, 203

Error Response Code(s): blockstorageFault (400, 500, ...), serviceUnavailable (503), unauthorized (401), forbidden (403)

A list of volumes. Each volume contains IDs, names, and links - other attributes are omitted.

Table 4.1. List Volumes Request Parameters

Name	Style	Туре	Description
changes-since	query	DateTime	The changes-since parameter is optional.
type	query	UUID	The type parameter is optional.
backup	query	UUID	The backup parameter is optional.
name	query	String	The name parameter is optional.
marker	query	UUID	The marker parameter is optional.
limit	query	Int	The limit parameter is optional.
tenantId	template	String	A unique identifier for the tenant who owns the resource.

```
<?xml version="1.0" encoding="UTF-8"?>
<volumes xmlns="http://docs.openstack.org/block-storage/api/v1.0"</pre>
         xmlns:atom="http://www.w3.org/2005/Atom">
   <volume id="15e59938-07d5-11e1-90e3-e3dffe0c5983"</pre>
            name="Work">
       <atom:link
            rel="self"
           href="http://servers.api.openstack.org/v1.1/1234/OS-BS/volumes/
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   </volume>
```

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<section>
  <title>List Volumes</title>
                       Only the Section, Example, Table Numbers
 <informaltable rules="all">
   <col width="10%"/>
                               are Generated -- everything
   <col width="40%"/>
                               else is written out manually
   <col width="50%"/>
   <thead>
     Verb
       URI
       Description
     </thead>
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 <caption>List Volumes Request Parameters/caption>
   <col width="30%"/>
   <col width="10%"/>
   <col width="10%"/>
   <col width="40%"/>
   <thead>
     Name
       Style
       Type
       Description
     </thead>
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<section>
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 <informaltable rules="all">
   <col width="10%"/>
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   <col width="50%"/>
   <thead>
     Verb
       URI
       Description
                                   There are semantic annotations,
     </thead>
                                    but the granularity is different
   <command>GET</command>
       <code>v1/{tenantId}/volumes?changes-s/nce=<replaceable>dateTime
replaceable>&type=<replaceable>UUID</
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