

RED HAT  
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# Using the REST API to manage RHEV

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# About the RHEV-M REST API

# About the RHEV-M REST API

- Integrate RHEV-M with third-party virtualization software
- Perform automated maintenance or error-checking tasks
- Automate repetitive RHEV management tasks with scripts

# API features

- Infrastructure configuration
- VM configuration and management
- Guest networking, virtual disks, and VM properties
- User and accounting management
- Daily maintenance and VM life-cycle management
- Advanced operations not available using the GUI

**Perl, Python, or Java – HTTP and XML support**

**<https://rhevm.pod0.example.com/api>**

# Using the RHEV-M REST API with curl

```
wget http://rhevm.pod0.example.com/ca.crt
```

```
curl  
--cacert ca.crt  
-u 'rhevadmin@example.com:redhat'  
https://rhevm.pod0.example.com/api
```

```
curl  
--cacert ca.crt  
-u 'rhevadmin@example.com'  
https://rhevm.pod0.example.com/api
```

```
echo 'machine rhevm.pod0.example.com login  
rhevadmin@example.com password redhat' > ~/.netrc
```

```
chmod 600 ~/.netrc
```

```
curl -n --cacert ca.crt https://rhevm.pod0.example.com/api
```

```
curl -n --cacert ca.crt  
https://rhevm.pod0.example.com/api/vms?search=*rhel*
```

```
curl -n --cacert ca.crt  
-X PUT  
-H 'Accept: application/xml'  
-H 'Content-Type: application/xml'  
-d '<vm><description>API Example</description></vm>'  
https://rhevm.pod0.example.com/api/vms/UUID
```

```
curl -n --cacert ca.crt  
-X POST  
-H 'Accept: application/xml'  
-H 'Content-Type: application/xml'  
-d '<action><pause>true</pause></action>'  
https://rhevm.pod0.example.com/api/vms/UUID/start
```

```
curl -n --cacert ca.crt  
-X POST  
-H 'Accept: application/xml'  
-H 'Content-Type: application/xml'  
-d '<action />'  
https://rhevm.pod0.example.com/api/vms/UUID/shutdown
```

# Using the RHEV-M REST API with python

**wget**  
**[http://172.25.254.254/pub/materials/storage\\_query.py](http://172.25.254.254/pub/materials/storage_query.py)**

# Exercise

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