

Concurrency Quota Policy Usage Scenarios for Community Manager

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Contents

Concurrency Quota Policy Usage Scenarios (Community Manager-specific).....	4
Add / Configure Concurrency Quota Policy.....	4
Scenario 1: How Do I Verify Concurrency Quota Policy at the Service Level?	7
Scenario 2: How Do I Verify Concurrency Quota Policy at the Contract Level?	9
Scenario 3: How Do I Verify Concurrency Quota Policy at License > Term Level?.....	11

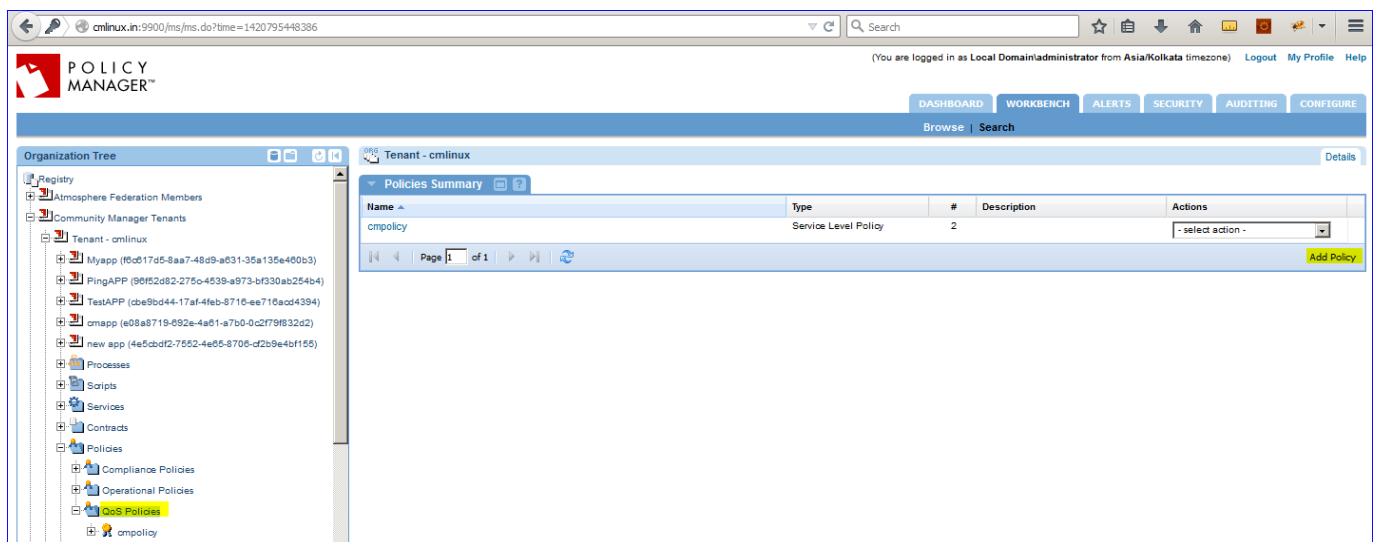
Concurrency Quota Policy Usage Scenarios (Community Manager-specific)

This document provides a list of Community Manager-specific usage scenarios for the *Concurrency Quota Policy*.

Add / Configure Concurrency Quota Policy

If you are using a *Concurrency Quota Policy* with Community Manager, the policy must be added to the Community Manager **Tenant** Organization for it to be available in the Community Manager UI.

- 1 Go to the *Policy Manager Management Console > Tenant Organization > Policies > QoS Policies* and click **Add Policy**.



- 2 Specify Policy Name, Policy Type (Concurrency Quota Policy), click **Finish**, and then **Close**.

POLICY MANAGER™

Specify Policy Details

The "Specify Policy Details" screen is used to define the following policy information:

The "Policy Details" section is used to define the "Policy Name," "Policy Key," and "Description." The "Policy Key" field allows you to enter a custom field value. If left blank, a system value is automatically assigned.

Specify the policy information. After you have completed your entries, click "Finish" to continue.

Policy Details

Category: QoS Policy

Policy Name: Concurrency Quota Policy

Policy Key:
If you do not provide this field value, a system value will automatically be assigned.

Description:
 [Empty text area]

Type: Concurrency Quota Policy

Help < Back Next > Finish > Cancel

- 3 On the *Concurrency Quota Policy Details* screen, click **Modify**.

Organization Tree

- Community Manager Tenants
 - Tenant - cmlinux
 - APP55 (c93930bf-86da-45ad-b700-ead27378bb7b)
 - Myapp (f6cd17d5-8aa7-48d9-a631-35a135e460b3)
 - PingAPP (96f52d82-275c-4639-a973-bf330ab254b4)
 - TestAPP (cbe9bd44-17af-4feb-8716-ee716acd4394)
 - cmapp (e08a8719-692e-4a01-a7b0-0c2f79f832d2)
 - krishna (c1fdf717-af7b-41c6-ae2f-96ab98b75d78)
 - new app (4e5cbdf2-7552-4e65-8708-d2b9e4bf155)
 - Processes
 - Scripts
 - Services
 - Contracts
 - Policies
 - Compliance Policies
 - Operational Policies
 - QoS Policies
 - Concurrency Quota Policy
 - Script Policy
 - Service Level Enforcement Policy

Concurrency Quota Policy (Draft) version: v1 - 01/21/2015 15:47:15

Policy Overview | Modify

Information | Modify

Type: Concurrency Quota Policy

Policy Name: Concurrency Quota Policy
 (um:uuid:ac5fb433-a156-11e4-afab-e14bec00ea01)

Version: 1

Description:

State: Draft

Concurrency Quota Policy | Modify

Options | Modify

Policy not configured.

- 4 Provide policy details and click **Finish**.

SOA Software Policy Manager - Modify Concurrency Quota Policy Wizard - Mozilla Firefox

cmlinux.in:9900/quota/policy/add_concurrency_policy1.faces?X-Csrf-Token=0xabe784d9&policyKey=urn:uuid:ac5fb433-a156-11e4-afab-e14bec00ea01&actionPage=modify&version

POLICY MANAGER™

Modify Concurrency Quota Policy

The "Modify Concurrency Quota Policy" screen allows you to update the concurrency quota policy. A Concurrency Quota is defined by the "Concurrency Limit" at any given time. If the quota is exceeded, the "Fault Message" will be returned to the service consumer and an alert will be logged.

You can define a fault message by specifying a name (Fault Message), SOAP fault element that holds errors and status information for a SOAP message (Fault Element Name), URL that points to the fault code schema (Fault Namespace URI), and URL that points to the fault code schema (Fault Namespace URI).

The "Time to Clear Alert" parameter defines the time that the throughput needs to be within the limit before a second alert is sent to signify that the consumer is once again within their quota.

The "Send Reminder Alert" is an alert that is sent every "Reminder Alert Interval" until the consumer is within their quota.

The "Alert Code," "Clear Alert Code," and "Reminder Alert Code" drop-downs display a list of custom alert codes that have been defined in the Alerts > Alert Codes section of the Management Console. Alerts will be sent when the concurrency limit has been exceeded (Alert Code), when the concurrency limit is no longer being exceeded (Clear Alert Code), and when the concurrency limit continues to be exceeded (Reminder Alert Code) based on the specified "Send Reminder Alert" interval.

Concurrency Quota Policy Details

Name: Concurrency Quota Policy

Description:

Concurrency Quota

Concurrency Limit: 1

Fault Message: Concurrency Fault

Fault Element Name: C Fault Element

Fault Namespace URI: uri:*

Fault Namespace Prefix: C prefix

Time to Clear Alert (s): 60

Send Reminder Alert: ☒

Reminder Alert Interval (s): 60

Alert Code: 90204 - Concurrency Quota Policy exceeded

Clear Alert Code: 90205 - Concurrency Quota Policy no longer exceeded

Reminder Alert Code: 90206 - Concurrency Quota Policy is still being exceeded

[Help](#) [Back](#) [Next >](#) [Finish](#) [Cancel](#)

5 If you are using Policy Manager 7.2 (or above), activate the policy. Otherwise skip this step.

Organization Tree

- Community Manager Tenants
 - Tenant - cmlinux
 - APP55 (c9330b4-86da-45ad-b700-eed27378bb7b)
 - Myapp (f5d17d5-8aa7-48d9-a631-35a135e400b3)
 - Myapp (9052d82-275a-4539-a973-bf330ab254b4)
 - TestAPP (cbe9bd44-17af-4feb-8716-ae716ac4394)
 - onapp (e08a6719-092e-4a61-a7b0-0c2f79632d2)
 - ishna (c16f717-af7b-41d5-ae2f90ab98b75d78)
 - new app (4e5cb0f2-7552-4e65-8708-d2b9e4bf155)
 - Processes
 - Scripts
 - Services
 - Contracts
 - Policies
 - Compliance Policies
 - Operational Policies
 - QoS Policies
 - Concurrency Quota Policy**
 - Script Policy
 - Service Level Enforcement Policy
 - Service Level Policy

Concurrency Quota Policy (Draft) version: v1-01/2015 10:47:15

Policy Overview

Information | Modify

Type: Concurrency Quota Policy

Policy Name: Concurrency Quota Policy
(urn:uuid:ac5fb433-a156-11e4-afab-e14bec00ea01)

Version: 1

Description:

State: Draft

Concurrency Quota Policy

Options | Modify

Concurrency Limit: 1

Fault Message: Concurrency Fault

Fault Element Name: C Fault Element

Fault Namespace URI: uri:*

Fault Namespace Prefix: C prefix

Time to Clear Alert (s): 60

Send Reminder Alert: ☒

Reminder Alert Interval (s): 60

Alert Code: 90204 - Concurrency Quota Policy exceeded

Clear Alert Code: 90205 - Concurrency Quota Policy no longer exceeded

Reminder Alert Code: 90206 - Concurrency Quota Policy is still being exceeded

Actions

- Change Organization
- Delete Policy
- Delete Policy Current Version
- Export Policy
- Modify Policy Information
- View Policy References

Policy Workflow

Information

State: Draft

Owner: Local Domain/administrator

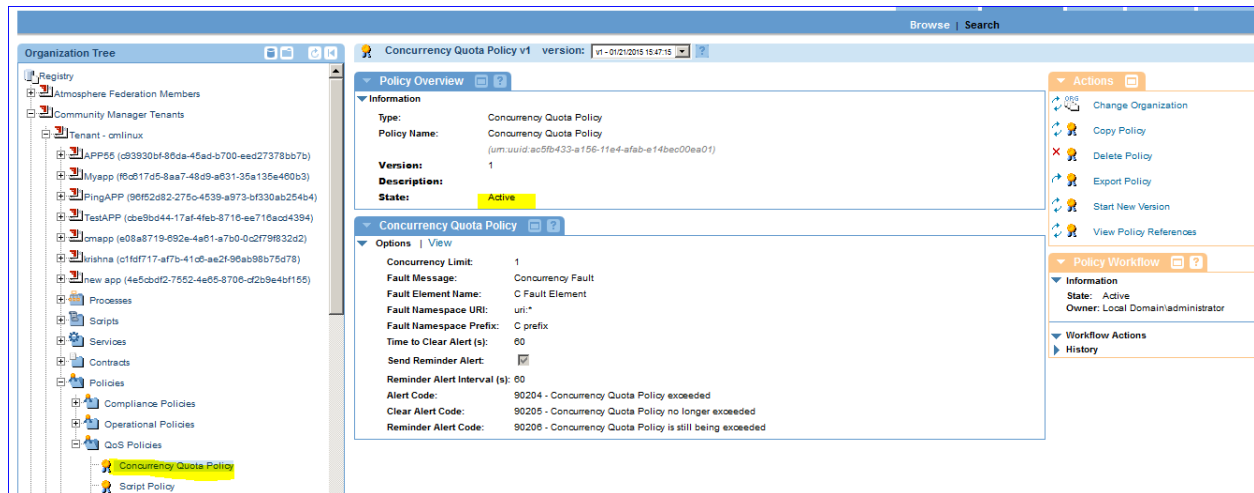
Workflow Actions

Comments:

Actions:

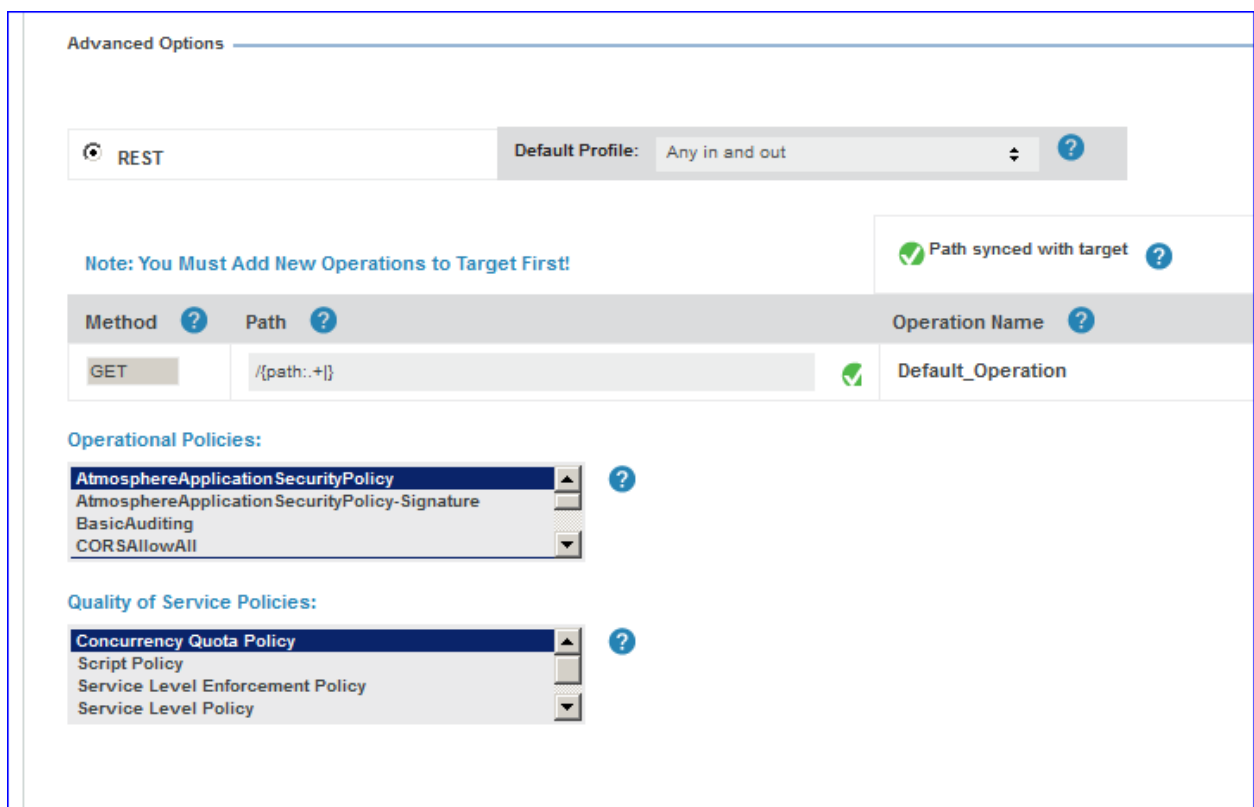
- Activate Policy**

History



Scenario 1: How Do I Verify Concurrency Quota Policy at the Service Level?

- 1 Launch *Community Manager*.
- 2 Attach *Concurrency Quota Policy* at the Service Level.



- 3 Request API access. Verify that the contract is activated.

Advanced Options

REST Default Profile: Any in and out ?

Note: You Must Add New Operations to Target First! Path synced with target ?

Method ?	Path ?	Operation Name ?
GET	/[path:..+]	Default_Operation

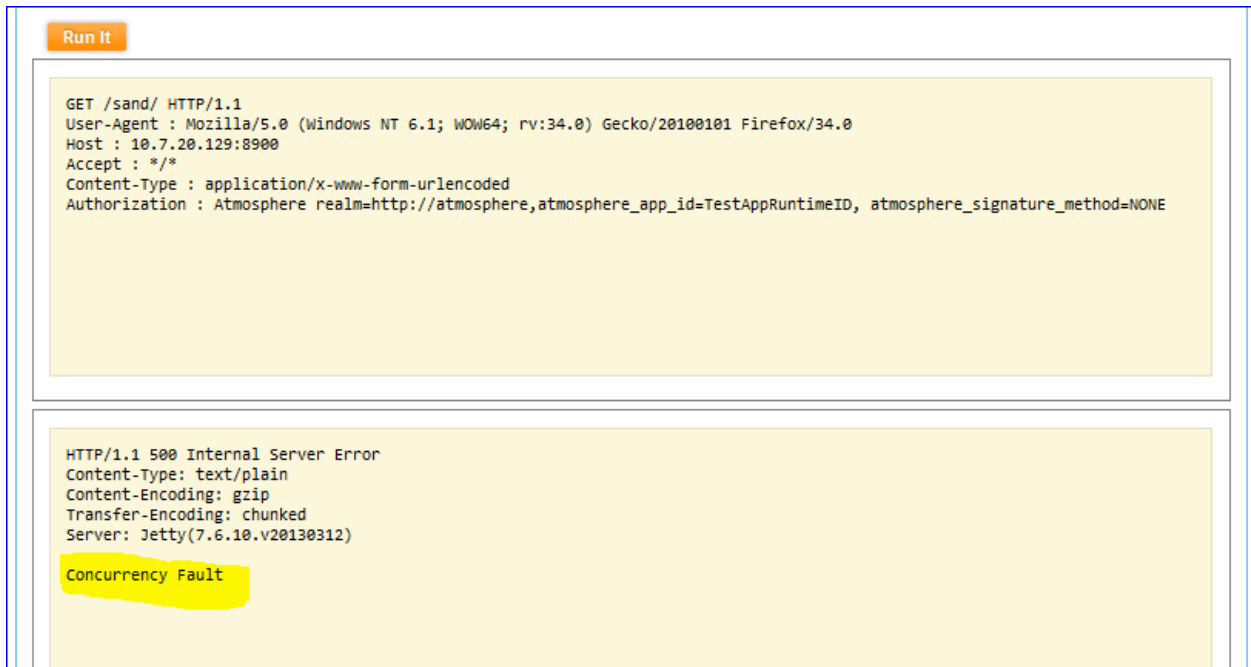
Operational Policies:

- AtmosphereApplicationSecurityPolicy ?
- AtmosphereApplicationSecurityPolicy-Signature
- BasicAuditing
- CORSAllowAll

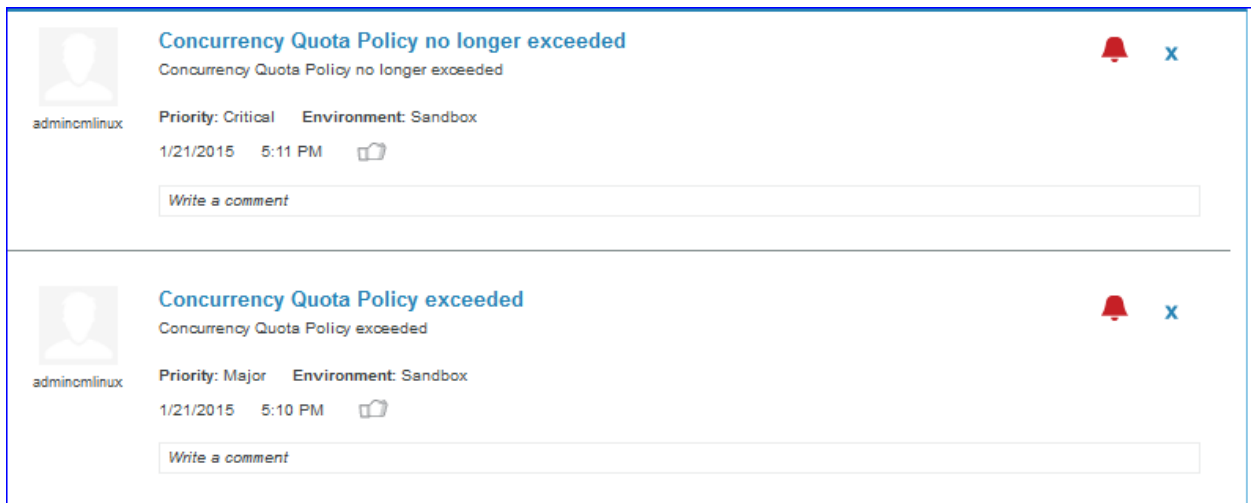
Quality of Service Policies:

- Concurrency Quota Policy ?
- Script Policy
- Service Level Enforcement Policy
- Service Level Policy

- 4 Go to the *DEV CONSOLE* and send continuous requests. This policy condition will be met only when hitting concurrent requests (i.e., sending multiple requests in 1 second).
- 5 This behavior is illustrated below using the SOAP UI and *DEV CONSOLE*.
- 6 Start one load test to send continuous requests from SOAP UI. Also send requests from the *DEV CONSOLE* one by one. When multiple requests are received the policy condition will be met and you will receive a fault message in response window.



- 7 Alerts will be displayed in the Community Manager *API > BOARD* (as illustrated below).



Scenario 2: How Do I Verify Concurrency Quota Policy at the Contract Level?

- 1 Attach the *Concurrency Quota Policy* at the Contract Level and activate the contract.

API Access

① Select App ② Endpoint ③ Policies ④ Legal Agreements

Select Policy:

Policy Name	Description	Select
Concurrency Quota Policy		<input checked="" type="checkbox"/>
Script Policy		<input type="checkbox"/>
Service Level Enforcement Policy		<input type="checkbox"/>
Service Level Policy		<input type="checkbox"/>
cmpolicy		<input type="checkbox"/>

Cancel Back Next

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- Now go to the *DEV CONSOLE* and send continuous requests. This policy condition will meet only when hitting concurrent requests (i.e., sending multiple requests in 1 second).
- This behavior is illustrated below using the SOAP UI and *DEV CONSOLE*.
- Start one load test to send continuous requests from SOAP UI. Also send requests from the *DEV CONSOLE* one by one. When multiple requests are received the policy condition will be met and you will receive a fault message in response window.

Run It

```
GET /sand/ HTTP/1.1
User-Agent : Mozilla/5.0 (Windows NT 6.1; WOW64; rv:34.0) Gecko/20100101 Firefox/34.0
Host : 10.7.20.129:8900
Accept : */*
Content-Type : application/x-www-form-urlencoded
Authorization : Atmosphere realm=http://atmosphere,atmosphere_app_id=TestAppRuntimeID, atmosphere_signature_method=NONE
```

```
HTTP/1.1 500 Internal Server Error
Content-Type: text/plain
Content-Encoding: gzip
Transfer-Encoding: chunked
Server: Jetty(7.6.10.v20130312)

Concurrency Fault
```

- Alerts will be displayed in the Community Manager *API > BOARD*.

The image shows three alert notifications in a list. Each notification includes a user icon, a title, a description, priority, environment, timestamp, and a 'Write a comment' field.

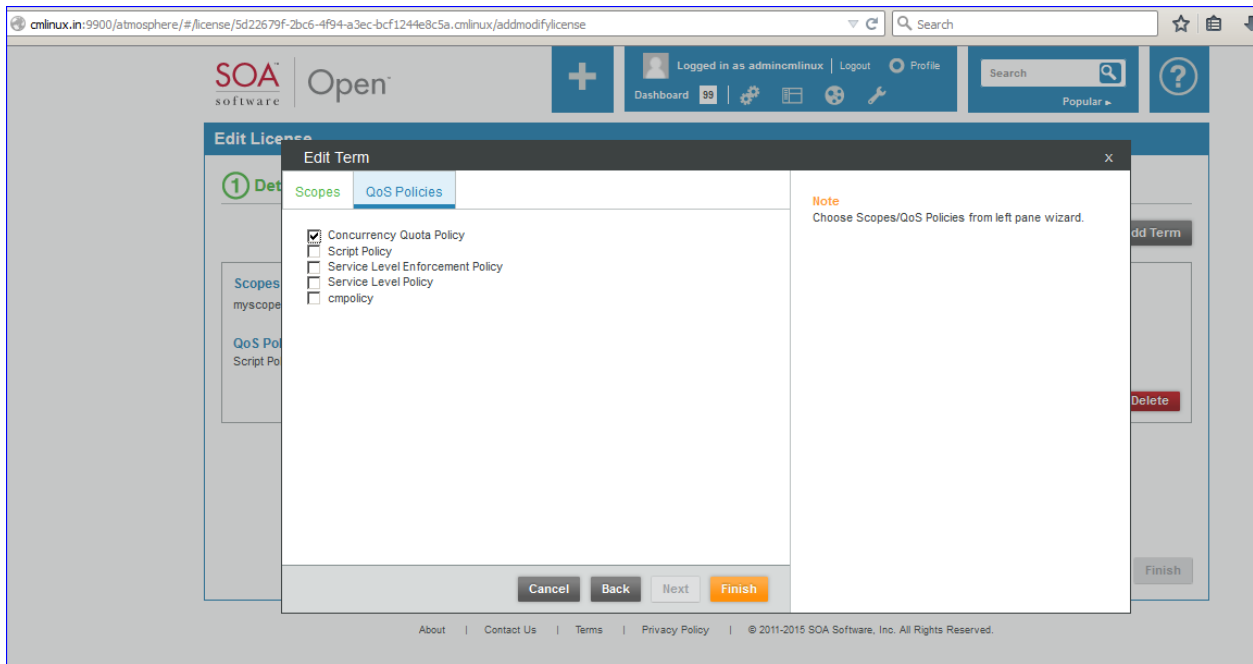
- Alert 1:** Title: "Concurrency Quota Policy no longer exceeded". Description: "Concurrency Quota Policy no longer exceeded". Priority: Critical. Environment: Sandbox. Timestamp: 1/21/2015 4:31 PM.
- Alert 2:** Title: "Concurrency Quota Policy is still being exceeded". Description: "Concurrency Quota Policy is still being exceeded". Priority: Minor. Environment: Sandbox. Timestamp: 1/21/2015 4:30 PM.
- Alert 3:** Title: "Concurrency Quota Policy exceeded". Description: "Concurrency Quota Policy exceeded". Priority: Major. Environment: Sandbox. Timestamp: 1/21/2015 4:29 PM.

6 Alerts will also be displayed in the Policy Manager Registry.

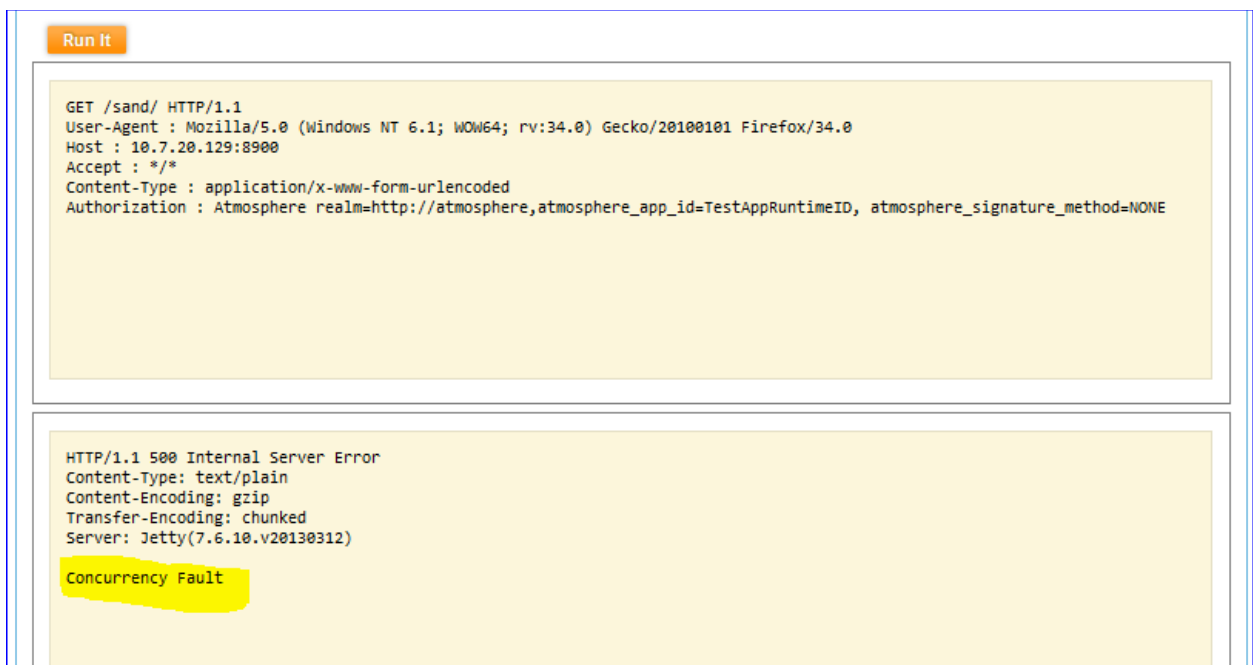
<input type="checkbox"/>	3240	TestAPI_Version1.0_Sandbox_Virtual	01/21/2015 17:10:14
		Concurrency Quota Policy exceeded.	90204
		Concurrency Quota Policy exceeded	- select -
<input type="checkbox"/>	3239	{http://soa.com/wsdl/forwardproxy/1.0}ForwardProxyApi	01/21/2015 17:10:14
		HTTP service reported error.	9022
		HTTP Error [500:Server Error] when accessing the URI [http://10.7.20.129:8900/sand/]	- select -
<input type="checkbox"/>	3238	TestAPI_Version1.0_Sandbox_Virtual	01/21/2015 16:31:45
		Concurrency Quota Policy no longer exceeded.	90205
		Concurrency Quota Policy no longer exceeded	- select -
<div> Observe Resolve Unresolve Delete < 1-10 > </div>			

Scenario 3: How Do I Verify Concurrency Quota Policy at License > Term Level?


1 **Edit License** and attach *Concurrency Quota Policy*.



- 2 Next, test the *Concurrency Quota Policy* at the License term level. This assumes that the same scope (as above) is used for Scope mapping, and the same license is selected while requesting API access.
- 3 Go to the *DEV CONSOLE* and send continuous requests. This policy condition will be met only when hitting concurrent requests (i.e., sending multiple requests in 1 second).
- 4 This behavior is illustrated below using the SOAP UI and *DEV CONSOLE*.
- 5 Start one load test to send continuous requests from SOAP UI. Also send requests from the *DEV CONSOLE* one by one. When multiple requests are received the policy condition will be met and you will receive a fault message in response window.




- 6 Alerts will be displayed in the Community Manager *API > BOARD*.




Concurrency Quota Policy exceeded
Concurrency Quota Policy exceeded

adminomlinux

Priority: Major Environment: Sandbox

1/21/2015 4:09 PM 


[Write a comment](#)




Concurrency Quota Policy is still being exceeded
Concurrency Quota Policy is still being exceeded

adminomlinux

Priority: Minor Environment: Sandbox

1/21/2015 4:10 PM 


[Write a comment](#)



Concurrency Quota Policy no longer exceeded
Concurrency Quota Policy no longer exceeded

adminomlinux

Priority: Critical Environment: Sandbox

1/21/2015 4:15 PM 

[Write a comment](#)

- 7 In *API Monitoring Logs*, the following logs will display for concurrency faults.

