Throughput Quota Policy Usage Scenarios for Policy Manager

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SOA Software, Inc.

SOA Software, Inc.
12100 Wilshire Blvd, Suite 1800
Los Angeles, CA 90025
(866) SOA-9876
www.soa.com
info@soa.com

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Throughput Quota Policy Usage Scenarios (Policy Manager-specific)

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

Generate Alert When Throughput Exceeds Limit

Generate an alert and trigger an email to the administrator(s) when throughput has crossed the 10 per minute limit

1   Create a physical service in *Policy Manager Management Console* using **Create Physical Service**.

2   Provide service details and **Finish** the wizard.

3   Using **Virtualize Service**, virtualize and host the physical service on Network Director (**ND1**), and assign a name (e.g., **Vs1**).

4   Navigate to *Organization > Policies > QOS Policies* and use **Add Policy** to create a *Throughput Quota Policy*.

5   Configure the *Throughput Quota Policy* as per the use case with 10 Throughput Limit per minute and a custom Fault message.
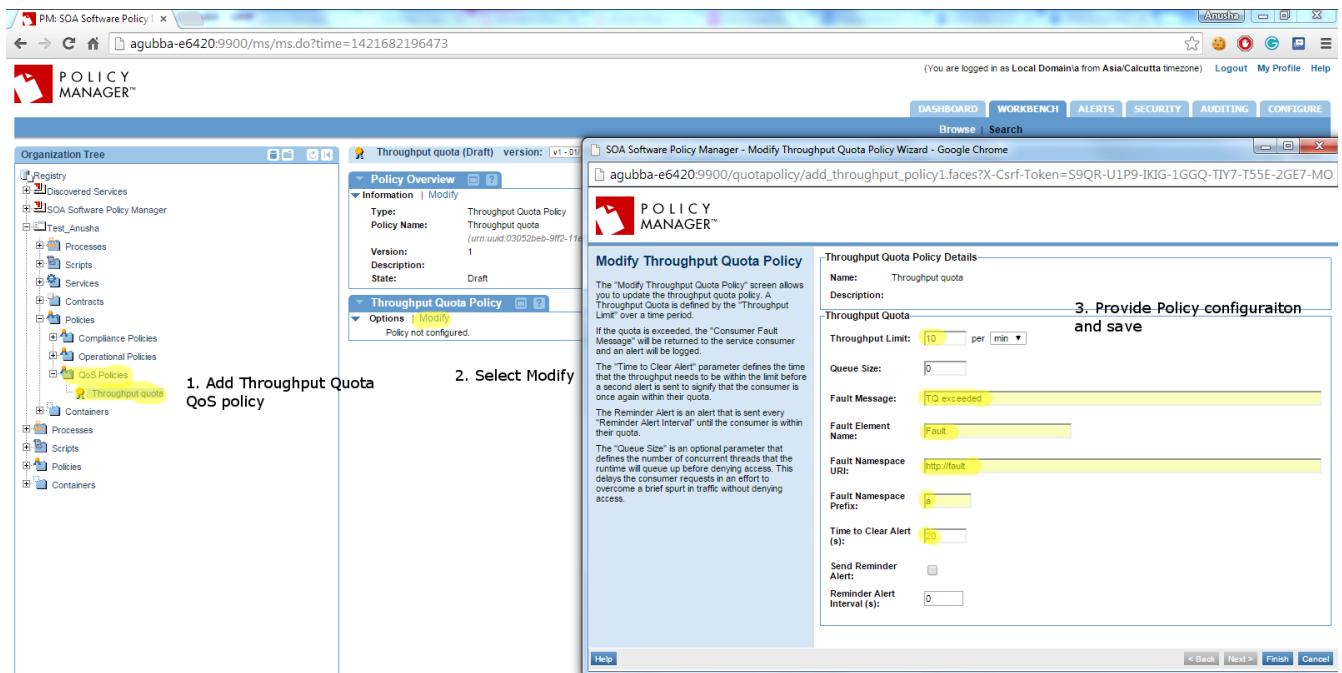
6   Activate the policy in the *Policy Workflow* portlet (PM72 and above), and attach it to the **Vs1** service in the *Service Details > Policy Attachments > QoS* section.

7   Send 20 requests from application/client to **Vs1** service in a minute.

    a) When the Throughput limit has exceeded, the Fault Message will be returned to the service consumer and an alert will be logged at service level.

    b) The subsequent requests will fail after the throughput has exceeded.

    c) The usage logs' details show the error being displayed as configured in the policy.

8   In the alert code, an email must be configured that will be sent to the administrator(s) as illustrated below.

Generate Reminder Alert When Throughput Exceeded

Generate a reminder alert and run a management script when throughput has crossed the 5 per second limit.

1   Create a physical service in *Policy Manager Management Console* using **Create Physical Service**.

2   Provide service details and **Finish** the wizard.

3   Using **Virtualize Service**, virtualize and host the physical service on Network Director (**ND1**), and assign a name (e.g., **Vs1**).

4   Navigate to *Organization > Policies > QOS Policies* and use **Add Policy** to create a *Throughput Quota Policy*.

5   Configure the *Throughput Quota Policy* as per the use case with 5 Throughput Limit per second and a custom Fault message and reminder time interval.

6   Activate the policy in the *Policy Workflow* portlet (PM72 and above), and attach it to the **Vs1** service in the *Service Details > Policy Attachments > QoS* section.

7   Send 10 requests from application/client to the **Vs1** service in a second.

   a)   When the Throughput limit has exceeded, the Fault Message will be returned to the service consumer and an alert will be logged at service level.

   b)   The subsequent requests will fail after the throughput has exceeded.

   c)   The usage logs' details show the error being displayed as configured in the policy.

   d)   If the limit still exceeds during Reminder Alert Interval (s), a remainder alert is generated.

8   In the reminder alert code, management script has to be configured to run (e.g., to store information related to the alert as illustrated below).

Generate Clear Alert When Throughput Stops Crossing Limit

Generate a clear alert and trigger an email to the administrator(s) when throughput has stopped crossing the 15 requests per second limit.

1   Create a physical service in *Policy Manager Management Console* using **Create Physical Service**.

2   Provide service details and **Finish** the wizard.

3   Using **Virtualize Service**, virtualize and host the physical service on Network Director (**ND1**), and assign a name (e.g., **Vs1**).

4   Navigate to *Organization > Policies > QOS Policies* and use **Add Policy** to create a *Throughput Quota Policy*.

5   Configure the Throughput Quota Policy as per the use case with 15 Throughput Limit per second and a custom Fault message.

6   Activate the policy in the *Policy Workflow* portlet (PM72 and above), and attach it to the **Vs1** service in the *Service Details > Policy Attachments > QoS* section.

7   Send 20 requests from application/client to the **Vs1** service in a second.

   a) When the Throughput limit has exceeded, the Fault Message will be returned to the service consumer and an alert will be logged at service level.

   b) The subsequent requests will fail after the throughput has exceeded.

   c) The usage logs' details show the error being displayed as configured in the policy.

   d) After the time to clear, a clear alert is generated and the subsequent requests will be successful until Throughput quota is not violated.

8   In the clear alert code, an email must be configured that will be sent to the administrator(s) as illustrated below:

<u>*Timeline view:*</u>
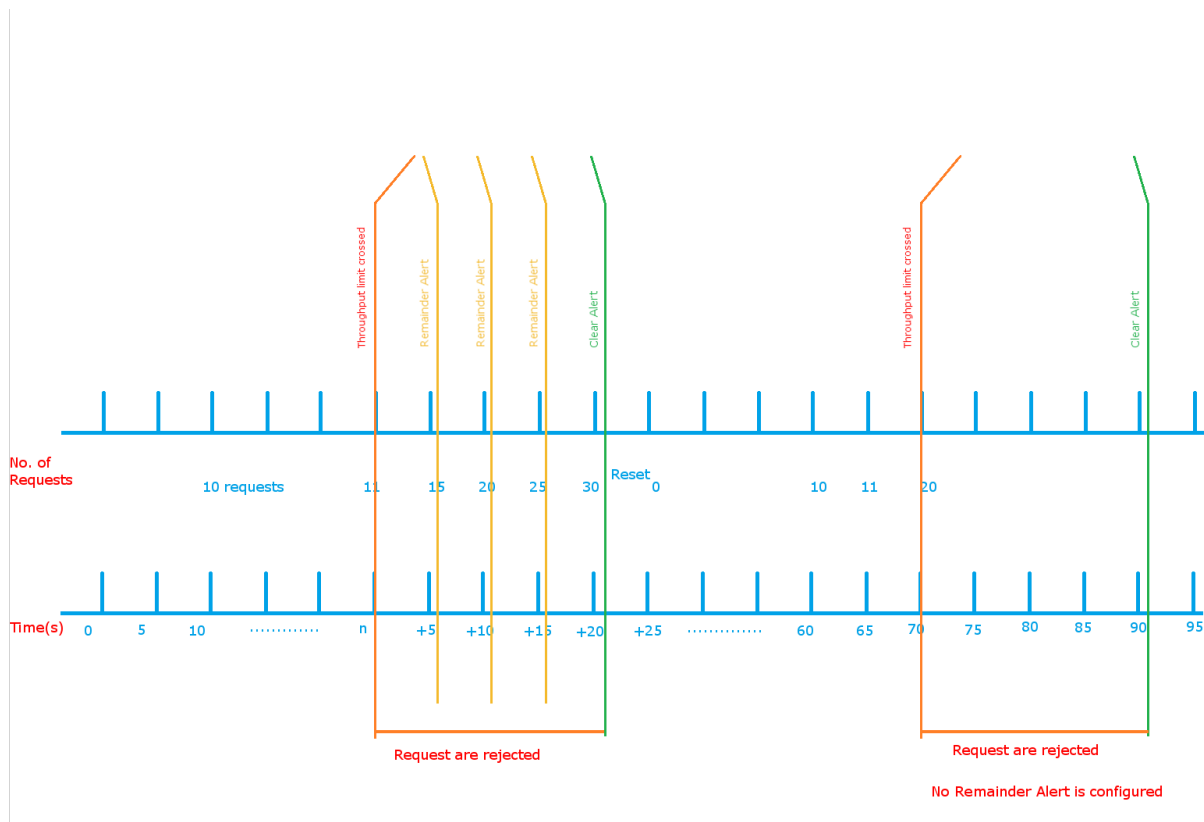
After 60 seconds, in the new UNIX time minute, requests count from 1 (not 11).