Citrix NetScaler负荷Cisco Unified智力中心(CUIC)的平衡器配置

Contents

Introduction

本文描述配置步骤使用Citrix NetScalaer负荷bablander CUIC。

Prerequisites

Requirements

Cisco 建议您了解以下主题：

- CUIC
- Citrix Netscaler

Components Used

本文档中的信息基于以下软件和硬件版本：

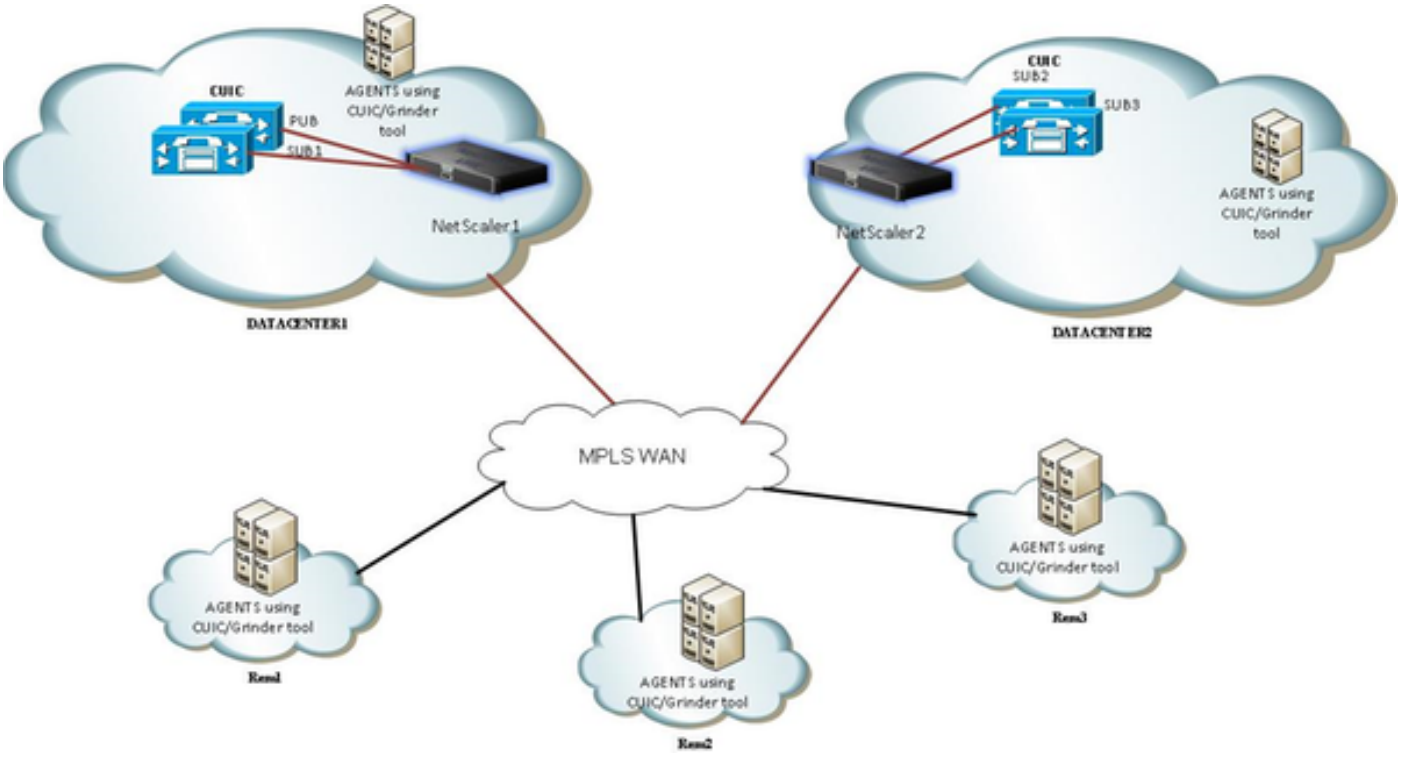
- CUIC 11.0(1)
- Citrix NS ：工具版本：Citrix NetScaler 1000v (10.1修造125.8)

The information in this document was created from the devices in a specific lab environment.All of the devices used in this document started with a cleared (default) configuration.If your network is live, make sure that you understand the potential impact of any command.

背景信息

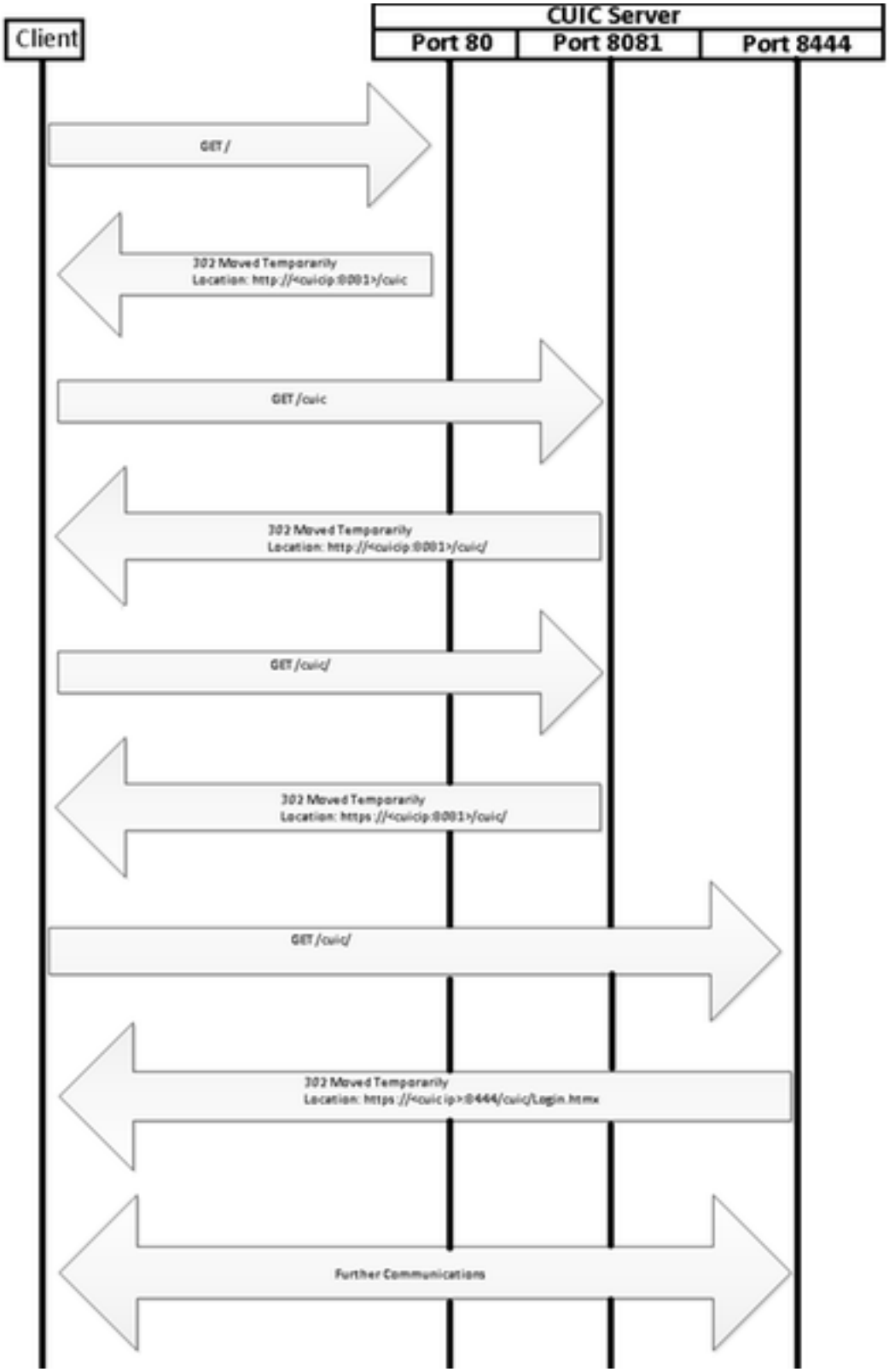
CUIC是提供您报告在相关业务数据的一个灵活和直观基于Web的报道的平台。使用CUIC，您能创建联系中心报告和显示板被开发并且共享在您的组织中的全面信息门户。在大CUIC配置， Citrix NetScaler 1000v (负荷平衡器)用于装载平衡CUIC超文本传输协议(HTTP)和超文本传输协议安全的(HTTPS)数据流。

Network Diagram



访问与HTTP/HTTPS的统一的智力中心报告

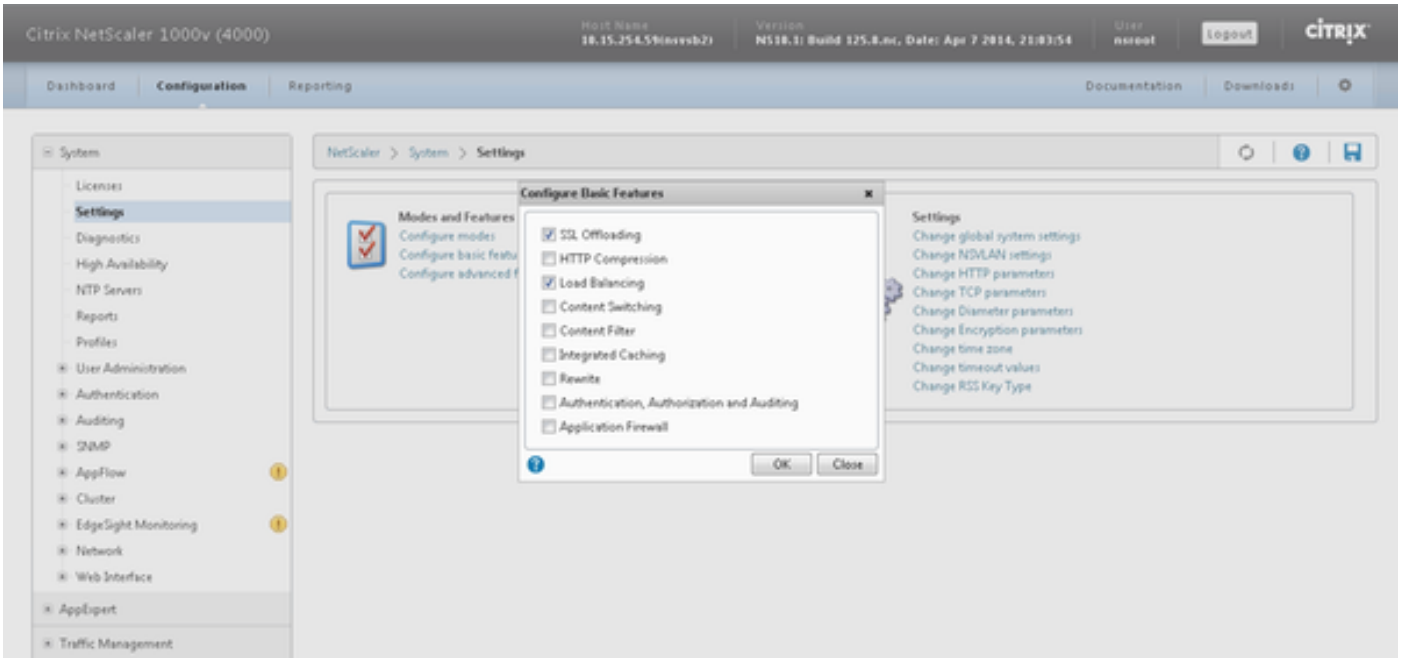
当HTTP在CUIC服务器时被禁用，这是对不同的端口的HTTP流。



配置

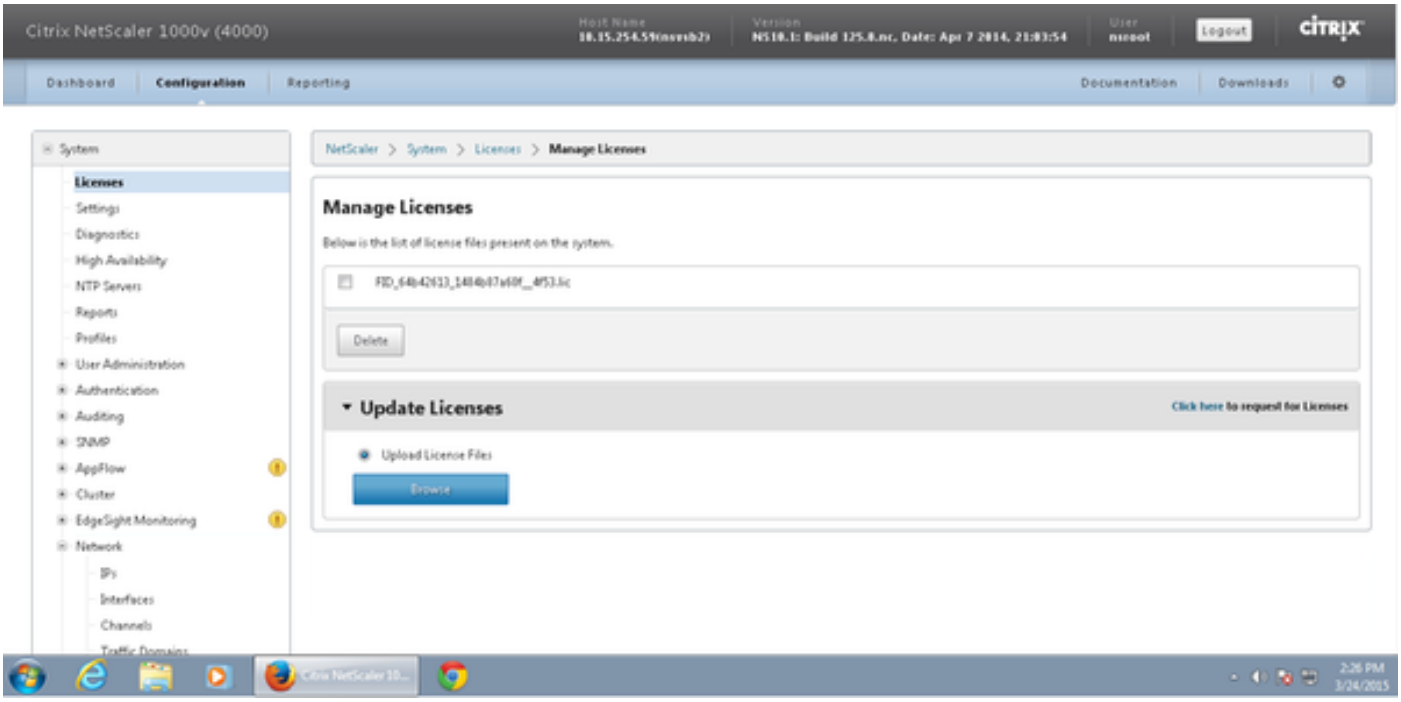
系统设置

Configuration>设置>配置基本的功能



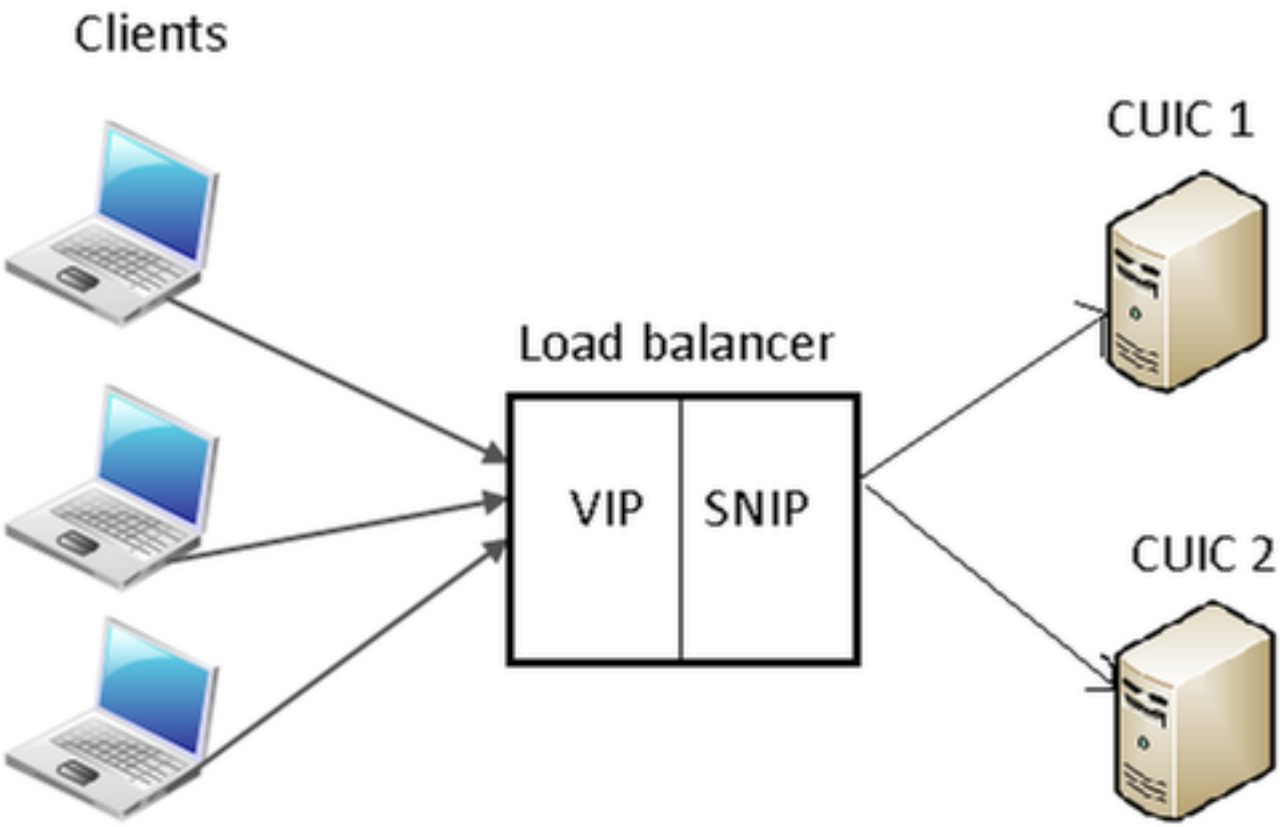
加载许可证

没有许可证SSL也许不工作。
连接对**系统>许可证>管理许可证> Update license**

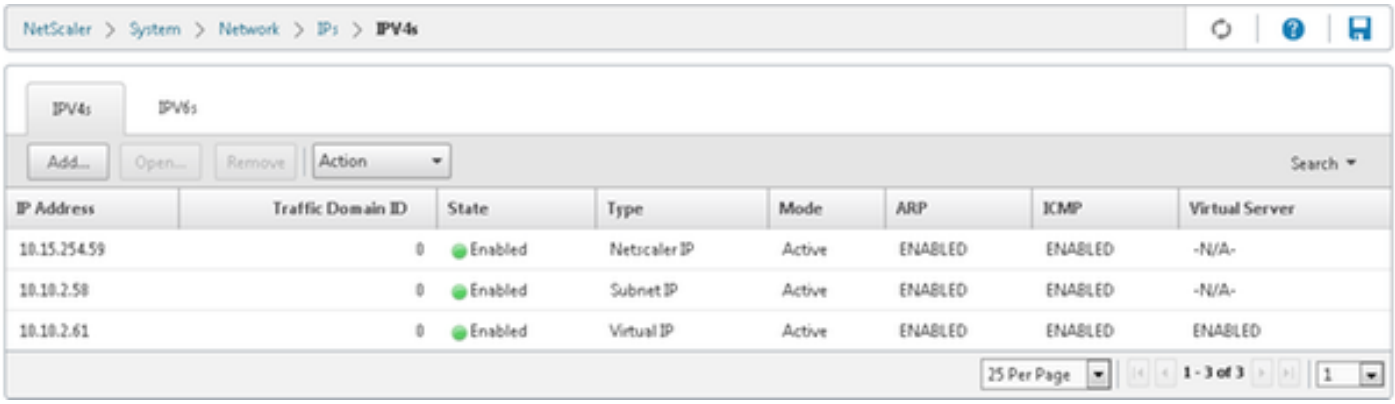


网络配置

客户端谈通过Virtual IP (VIP)装载平衡器，并且负荷平衡器与CUIC谈通过其子网IP (剪)。

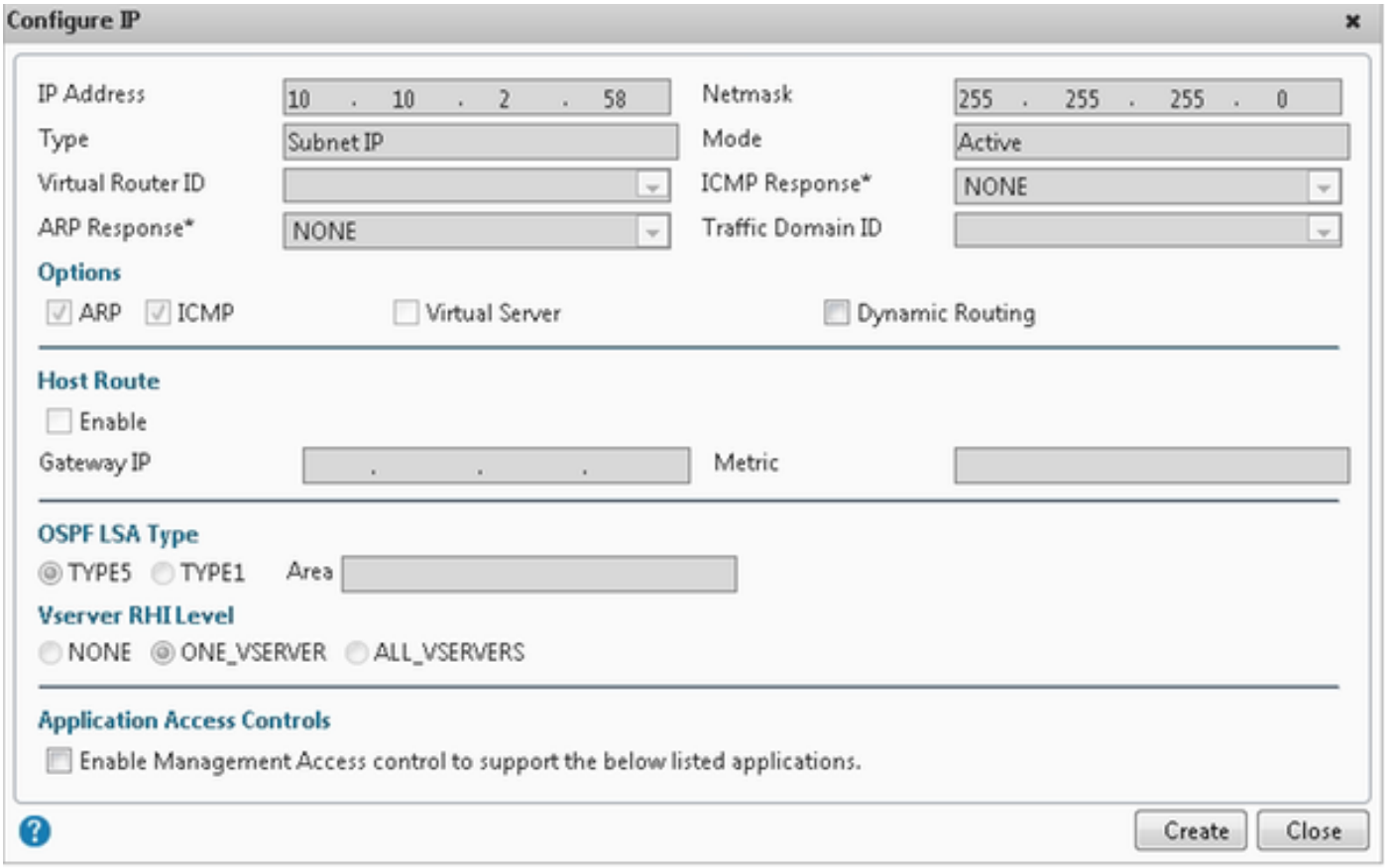


点击**系统>网络> IP > IPv4s**



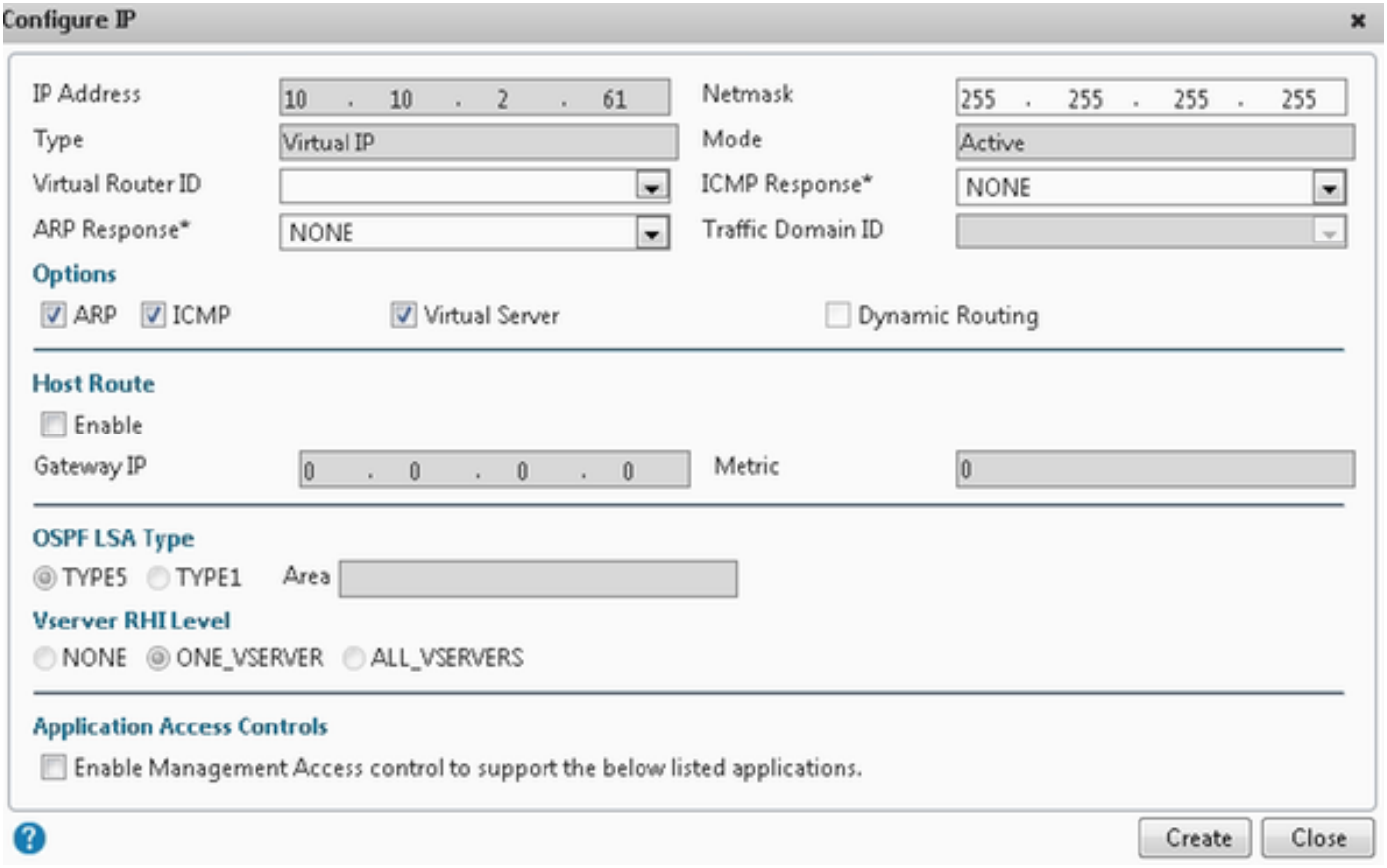
创建子网IP

步骤1.点击**Add**添加**IP地址**，选择**类型**作为**子网IP**。
步骤2.点击**创建**创建所需的IP地址。



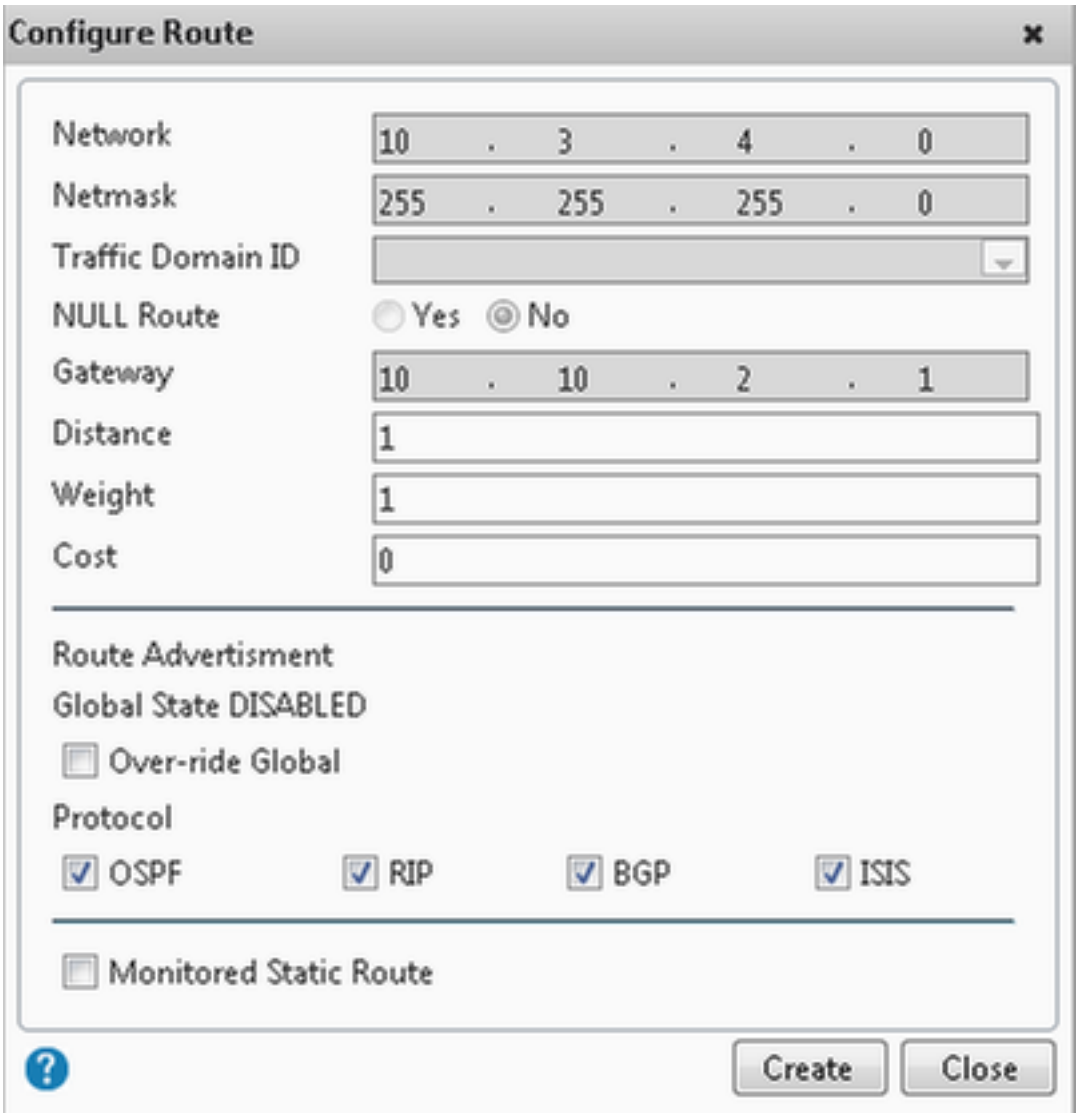
创建VIP

步骤1.点击**添加**添加**IP地址**，选择**类型**作为**虚拟IP**。
步骤2.点击**创建**创建所需的IP地址。



创建路由

若需要，请创建路由对网络从HTTP/HTTPS请求来装载平衡器。



点击**创建**创建期望路由。

HTTPS负载均衡配置

创建虚拟服务器条目，一个在CUIC的每个端口的，将被监控的三端口(HTTP端口80。8081和HTTPS端口8444)。每个虚拟服务器条目是从客户端收到HTTP数据流的IP和端口组合(访问CUIC报告)。

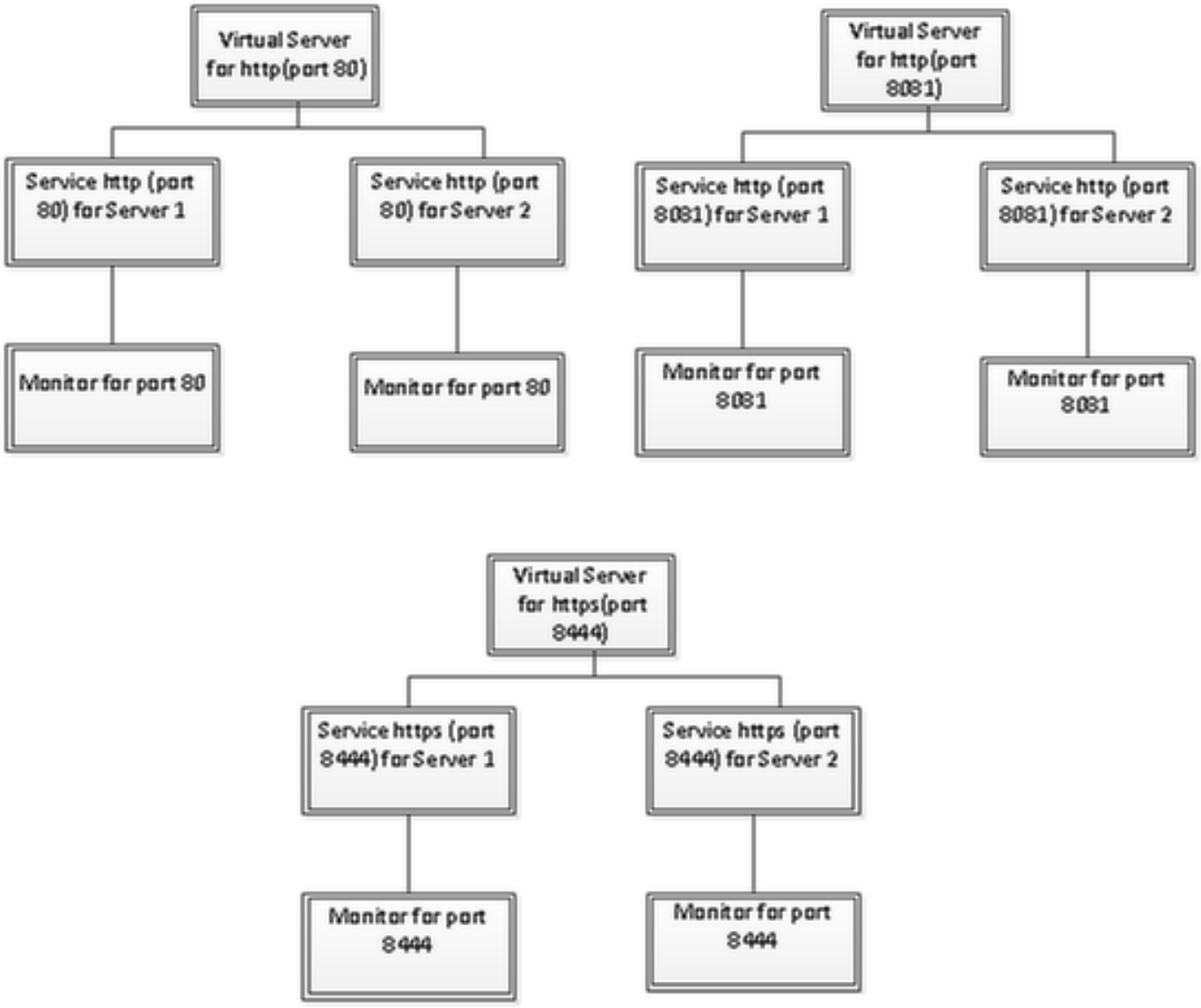
要求虚拟服务器与服务器联接，发送负荷数据流他们。要检查服务器的监控程序的健康状态，他们需要分配到每个服务器。使用监控程序，负荷发现服务器(CUIC)故障并且重新分配流入的数据流到在服务请求的身体好的服务器。

因此关联是虚拟Server->Service和Server->Monitor。

配置汇总：

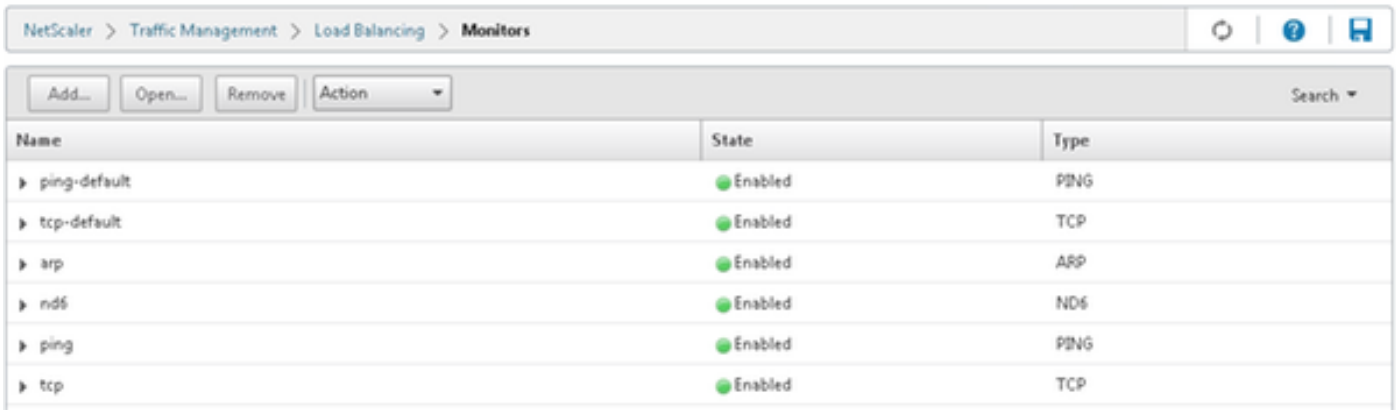
- 创建监控程序
- 创建服务器
- 用服务器关联创建服务
- 与对应的监控程序连接每项服务
- 创建虚拟服务器
- 与虚拟服务器连接对应的服务
- 创建持续时间组并且添加虚拟服务器

此镜像表示三个虚拟服务器条目和其关联。



创建监控程序

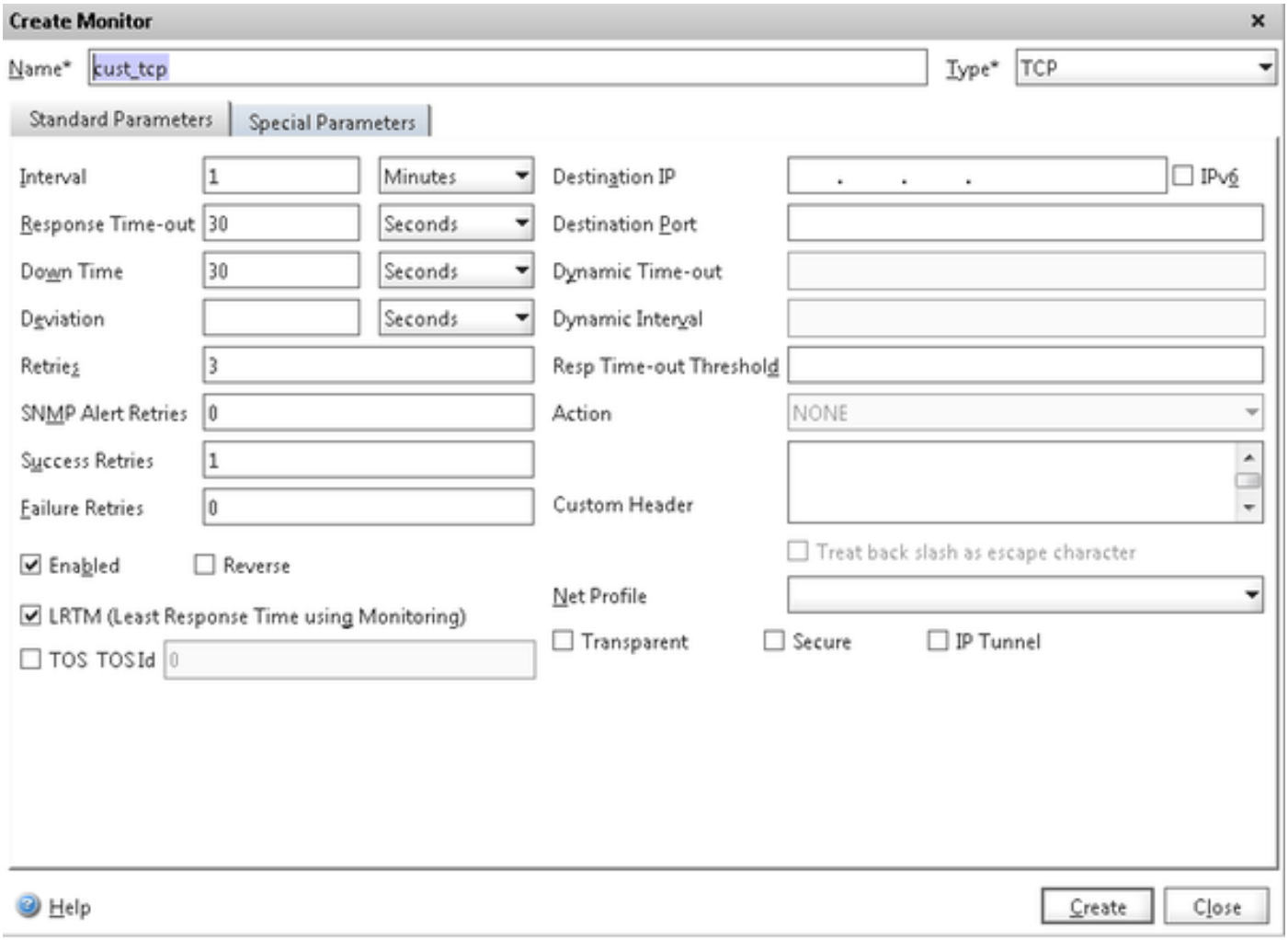
连接到**流量管理>负载均衡>监控程序**

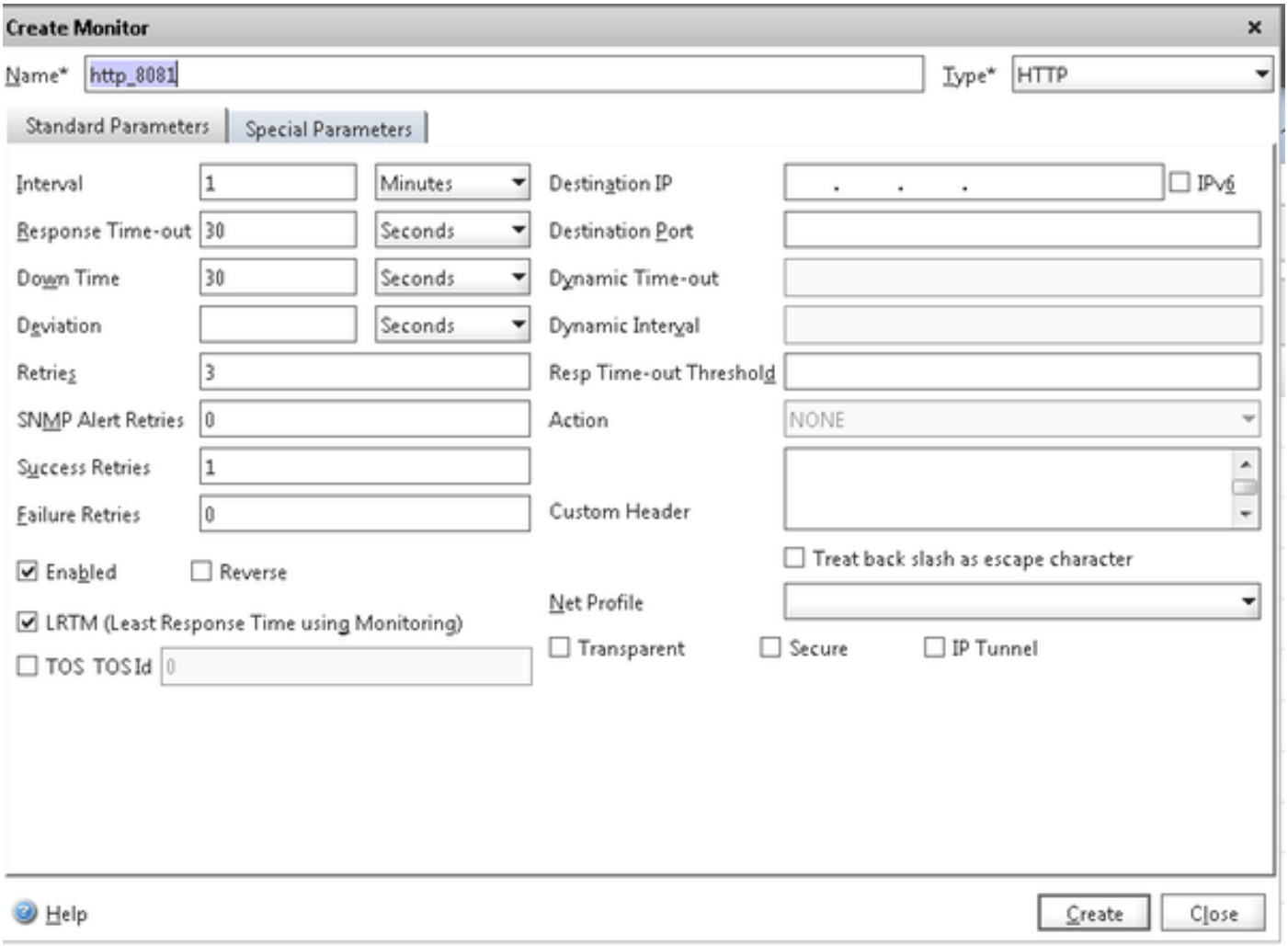


要创建监控程序，请连接到**流量管理>负载均衡>监控程序**，点击**Add按钮**。
监控程序的三种类型为端口80被创建， 8081and 8444。

创建HTTP端口的80监控程序

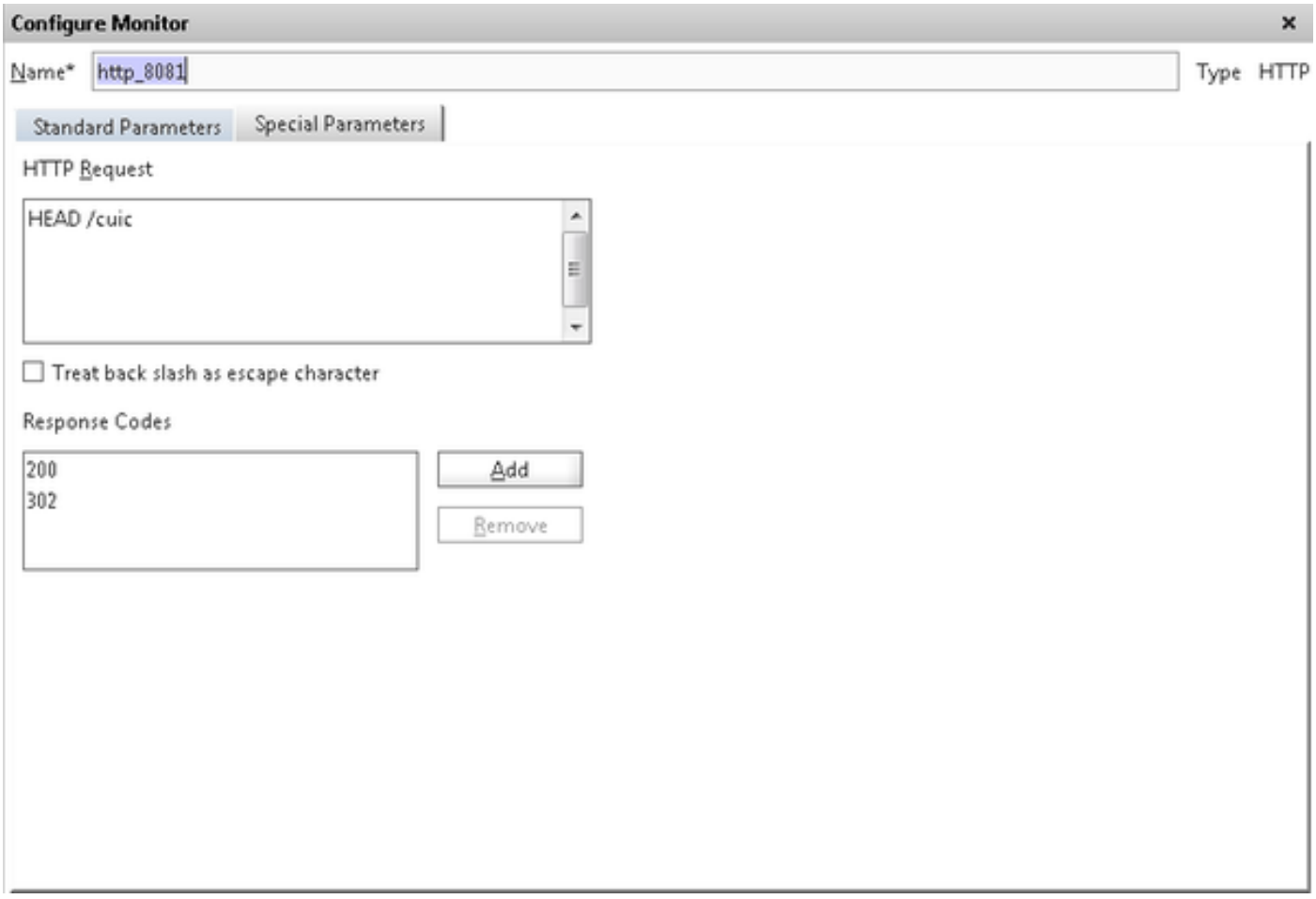
选择**类型**作为**TCP**并且相应地指定**间隔、响应超时、停工期**，**重试次数**等。
点击**创建**创建监控程序。HTTPS，两监控程序需要被创建(一个每个服务器)。

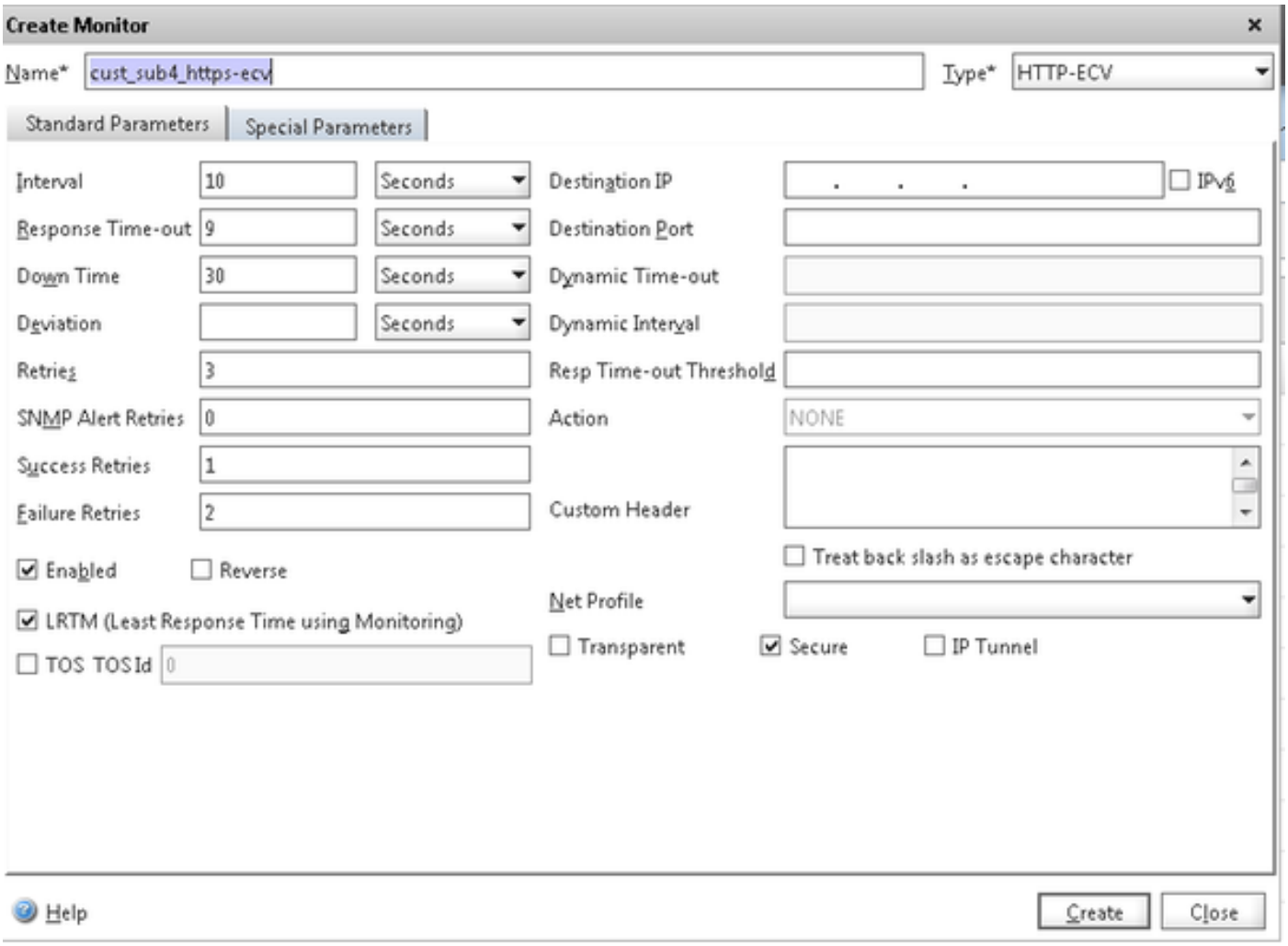




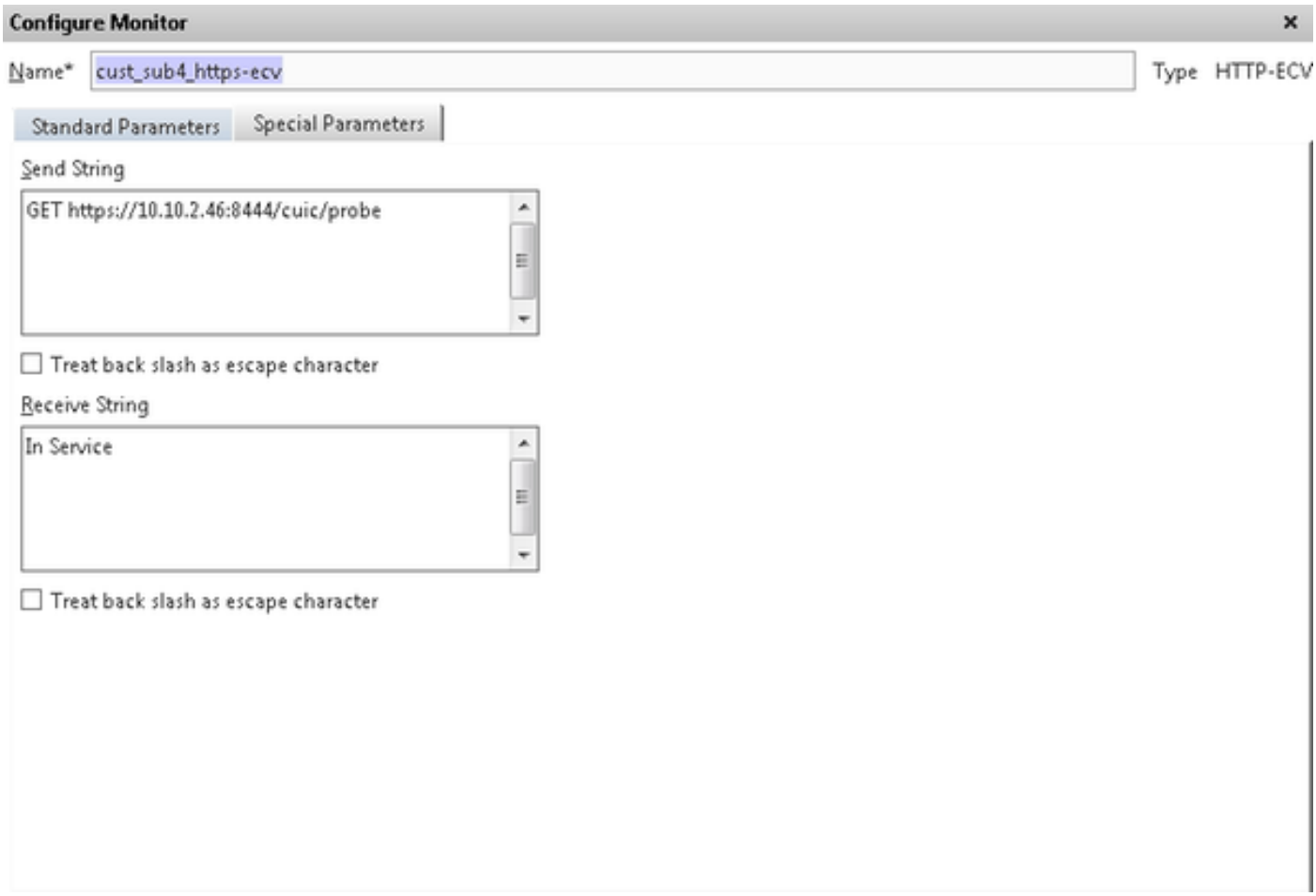
对于HTTPS请键入监控程序，配置特殊参数部分。如果对HTTP请求的回应是200或302，此监控程序报告成功。

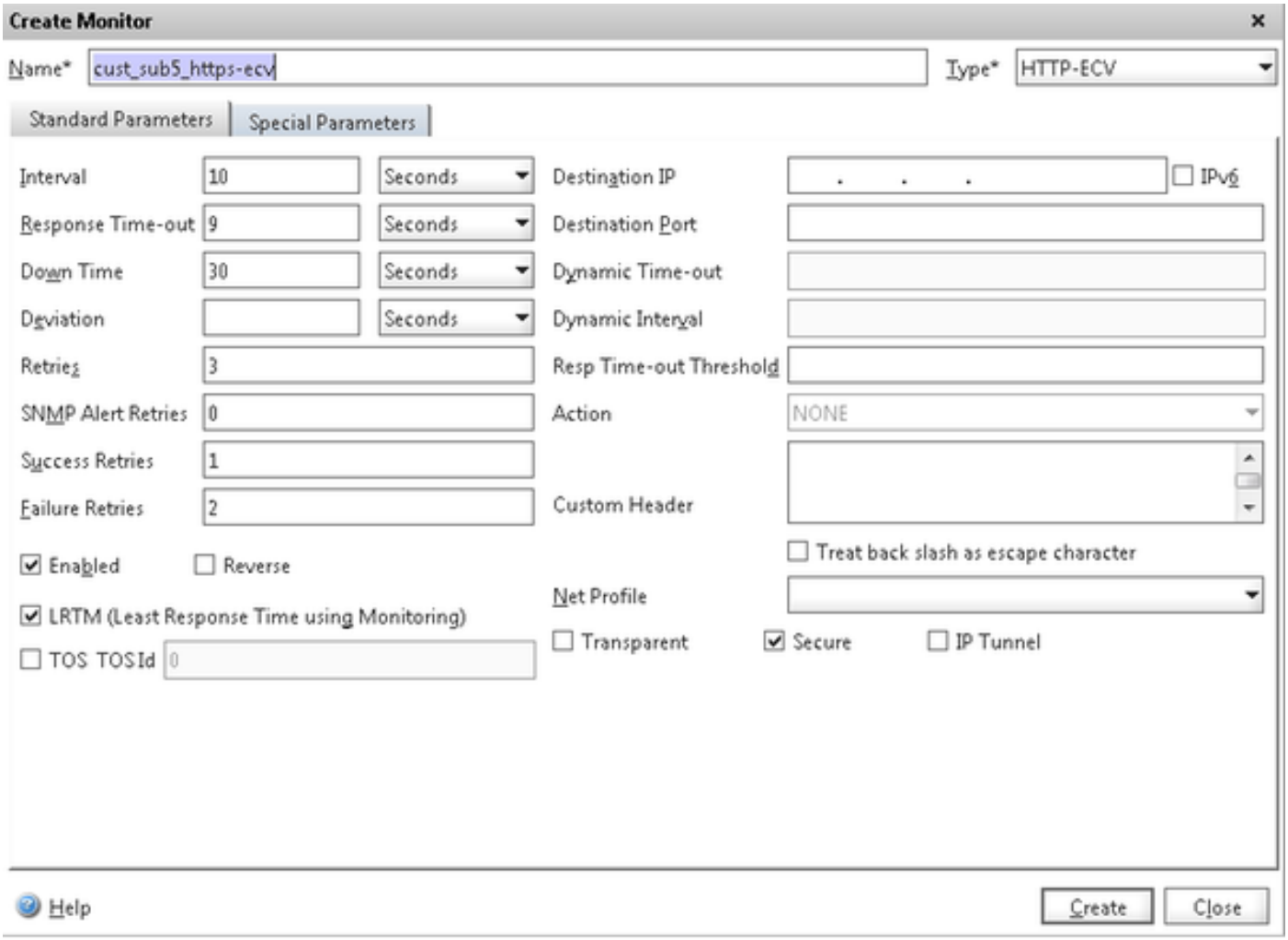
当HTTP在CUIC时被禁用， 302预计否则200。要处理两个情况200和302请是包括的。

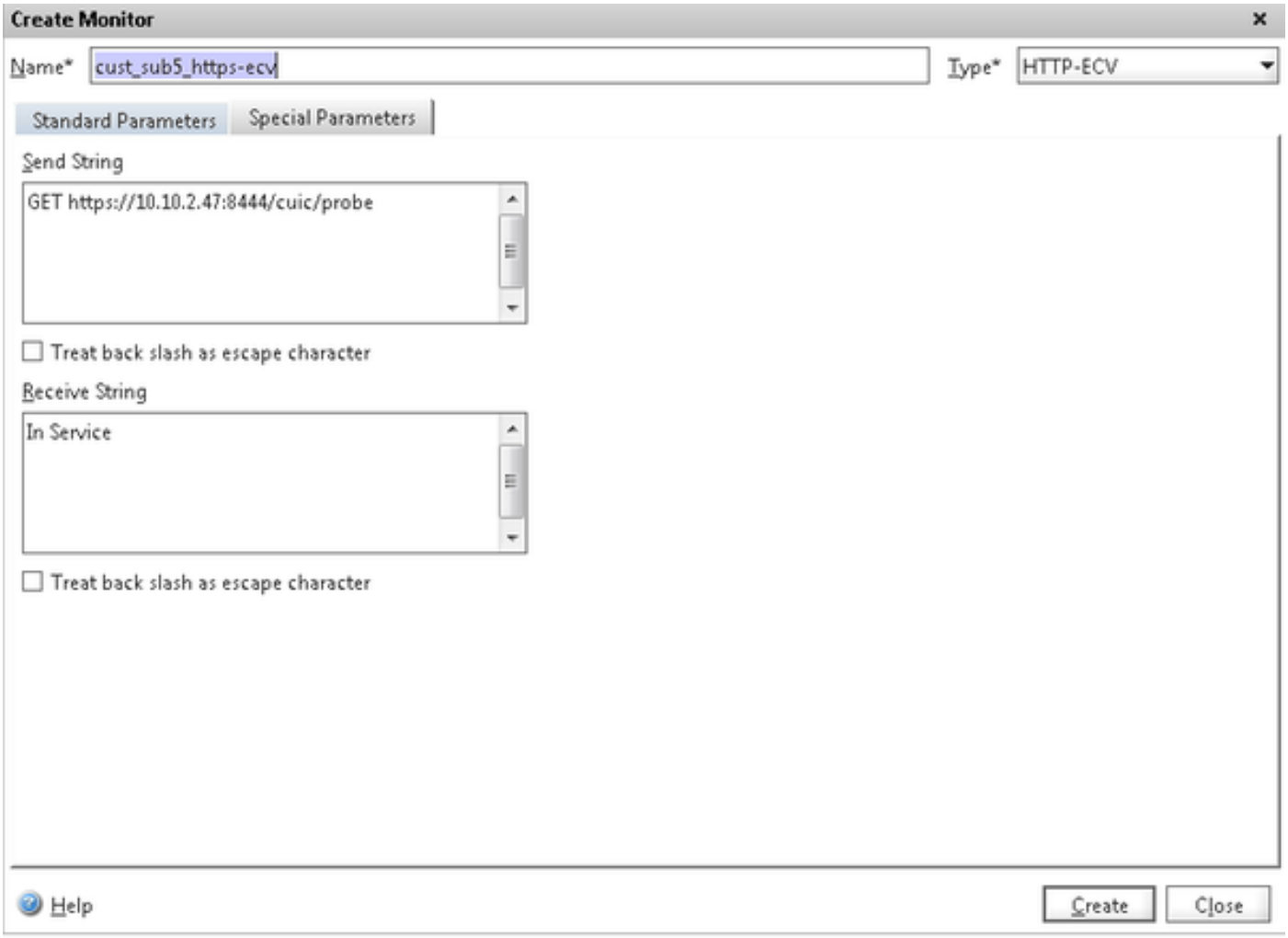

Configure Monitor
Name* http_8081
Type HTTP
Standard Parameters
Special Parameters
HTTP Request
HEAD /cuic
Treat back slash as escape character
Response Codes
200
302
Add
Remove


Create Monitor
Name* cust_sub4_https-ecv
Type* HTTP-ECV
Standard Parameters
Special Parameters
Interval 10 Seconds
Response Time-out 9 Seconds
Down Time 30 Seconds
Deviation Seconds
Retries 3
SNMP Alert Retries 0
Success Retries 1
Failure Retries 2
Enabled
Reverse
LRTM (Least Response Time using Monitoring)
TOS TOS Id 0
Destination IP
IPv6
Destination Port
Dynamic Time-out
Dynamic Interval
Resp Time-out Threshold
Action NONE
Custom Header
Treat back slash as escape character
Net Profile
Transparent
Secure
IP Tunnel
Help
Create
Close

对于HTTPS请键入监控程序，配置特殊参数部分。只有当回应**在使用中**，包含一个字符串此监控程序报告成功。

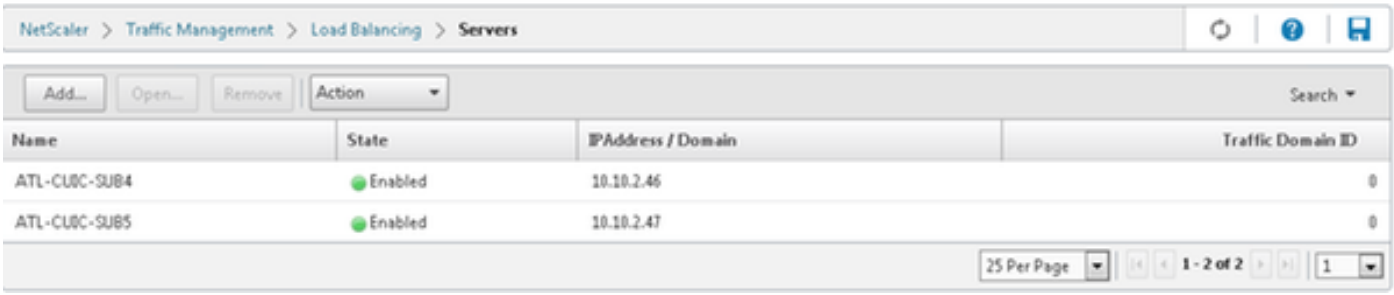



Create Monitor
Name* cust_sub5_https-ecv
Type* HTTP-ECV
Standard Parameters
Special Parameters
Interval 10 Seconds
Response Time-out 9 Seconds
Down Time 30 Seconds
Deviation Seconds
Retries 3
SNMP Alert Retries 0
Success Retries 1
Failure Retries 2
Enabled
Reverse
LRTM (Least Response Time using Monitoring)
TOS TOS Id 0
Destination IP . . .
IPv6
Destination Port
Dynamic Time-out
Dynamic Interval
Resp Time-out Threshold
Action NONE
Custom Header
Treat back slash as escape character
Net Profile
Transparent
Secure
IP Tunnel
Help
Create
Close

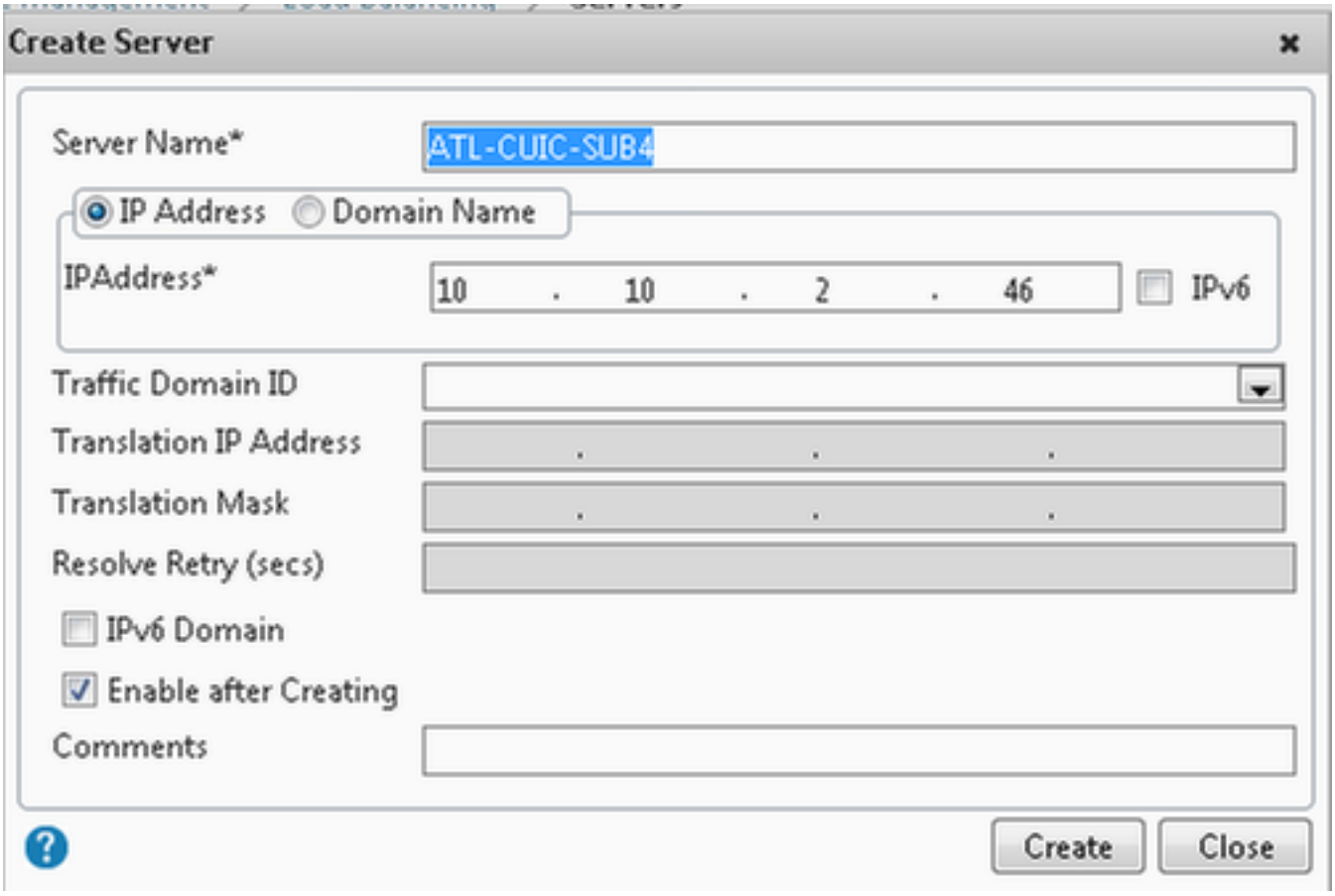


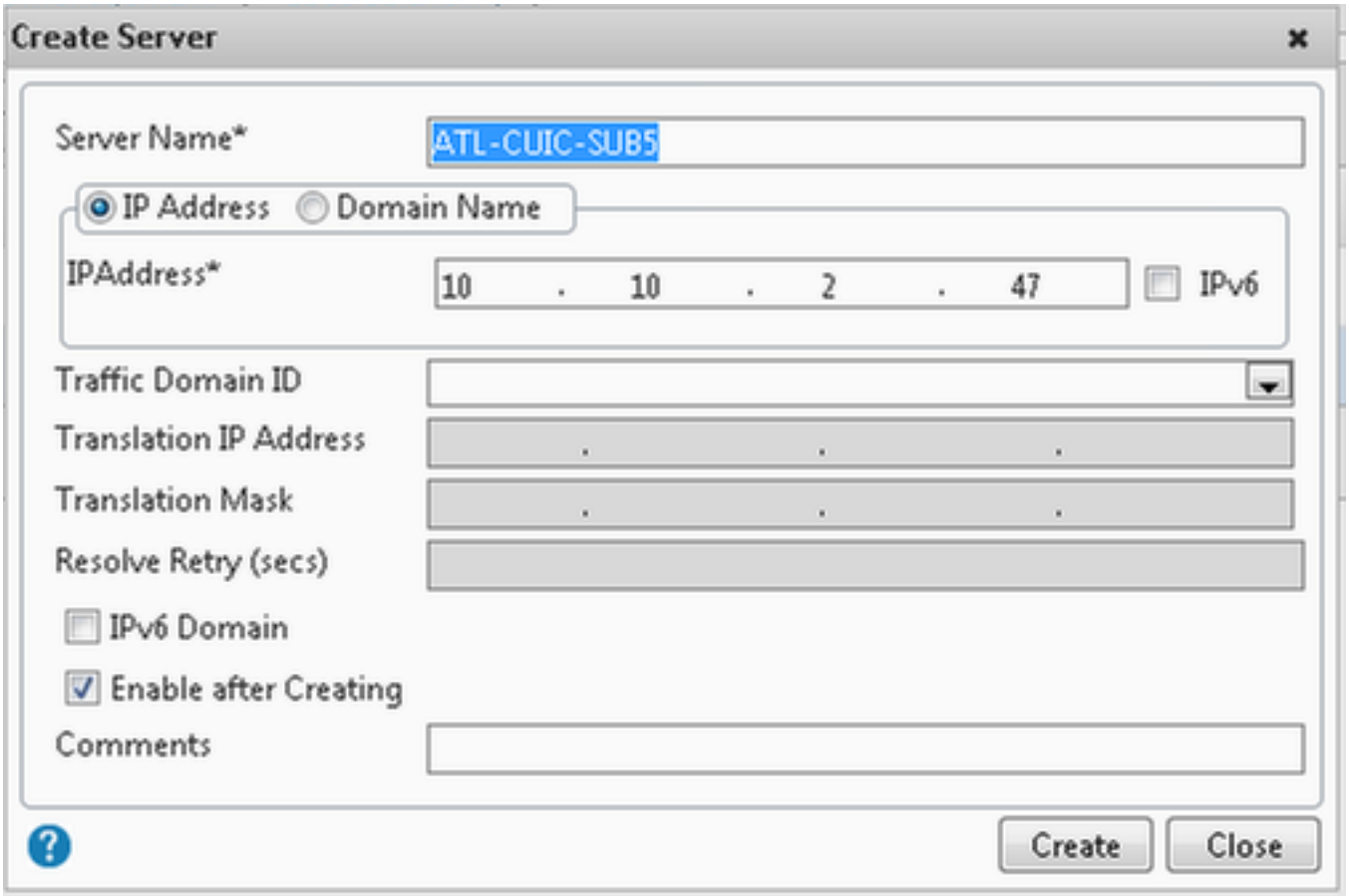
创建服务器

服务器表示CUIC节点。对于负荷平衡器服务的每个CUIC节点需要服务器项。



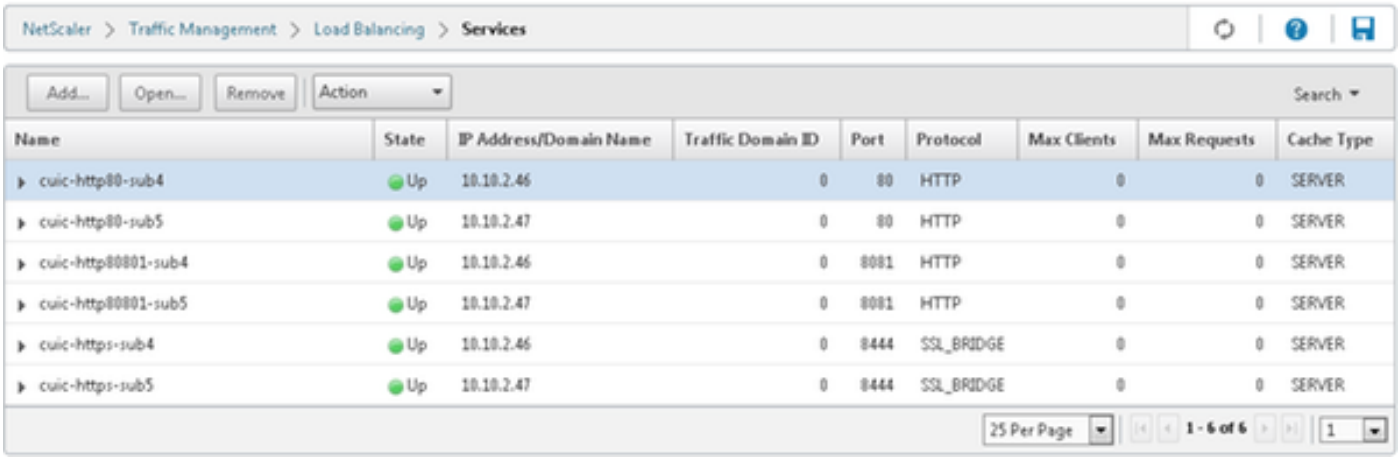
要创建服务器，请连接到**流量管理>负载均衡>服务器**，点击**Add按钮**。



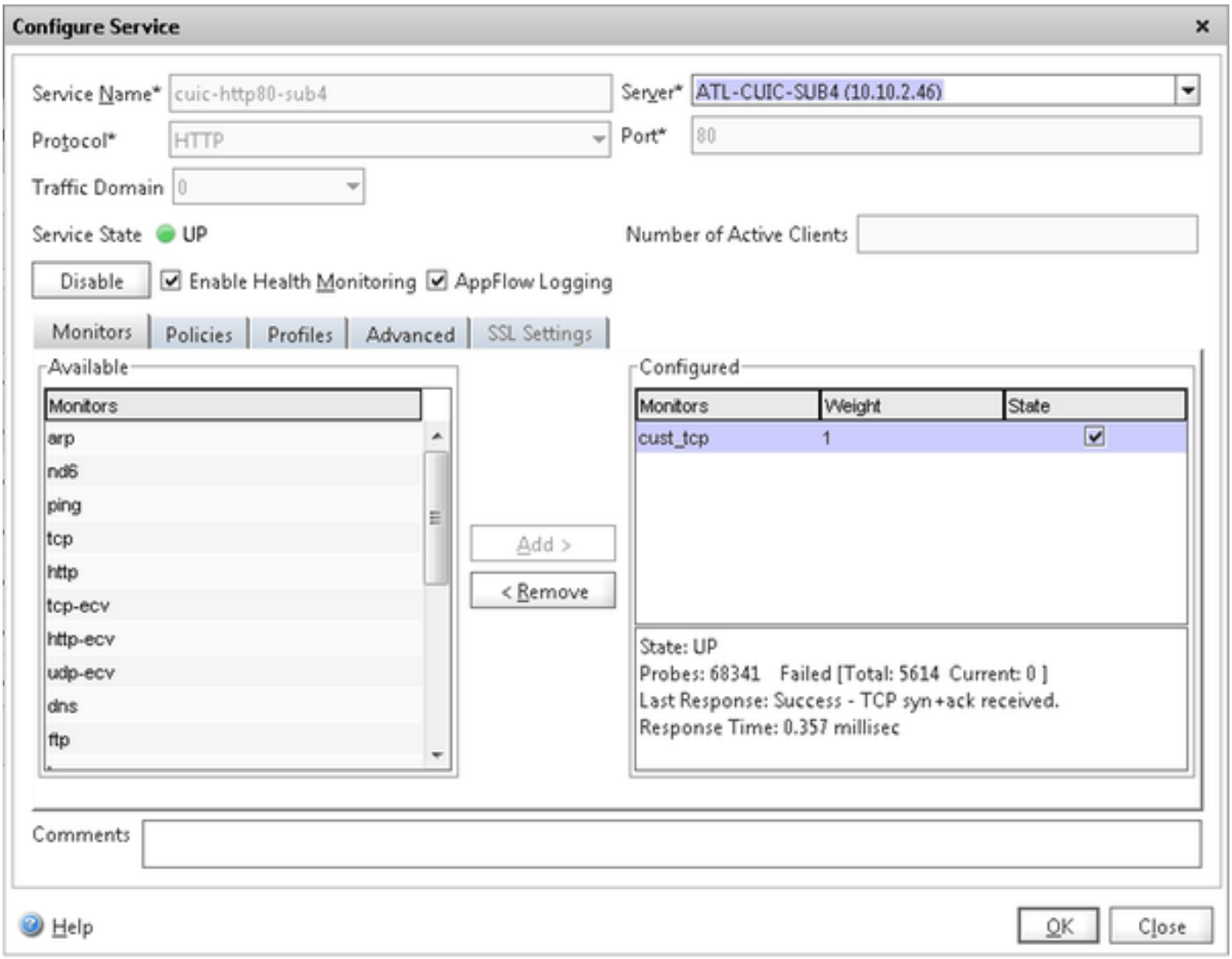


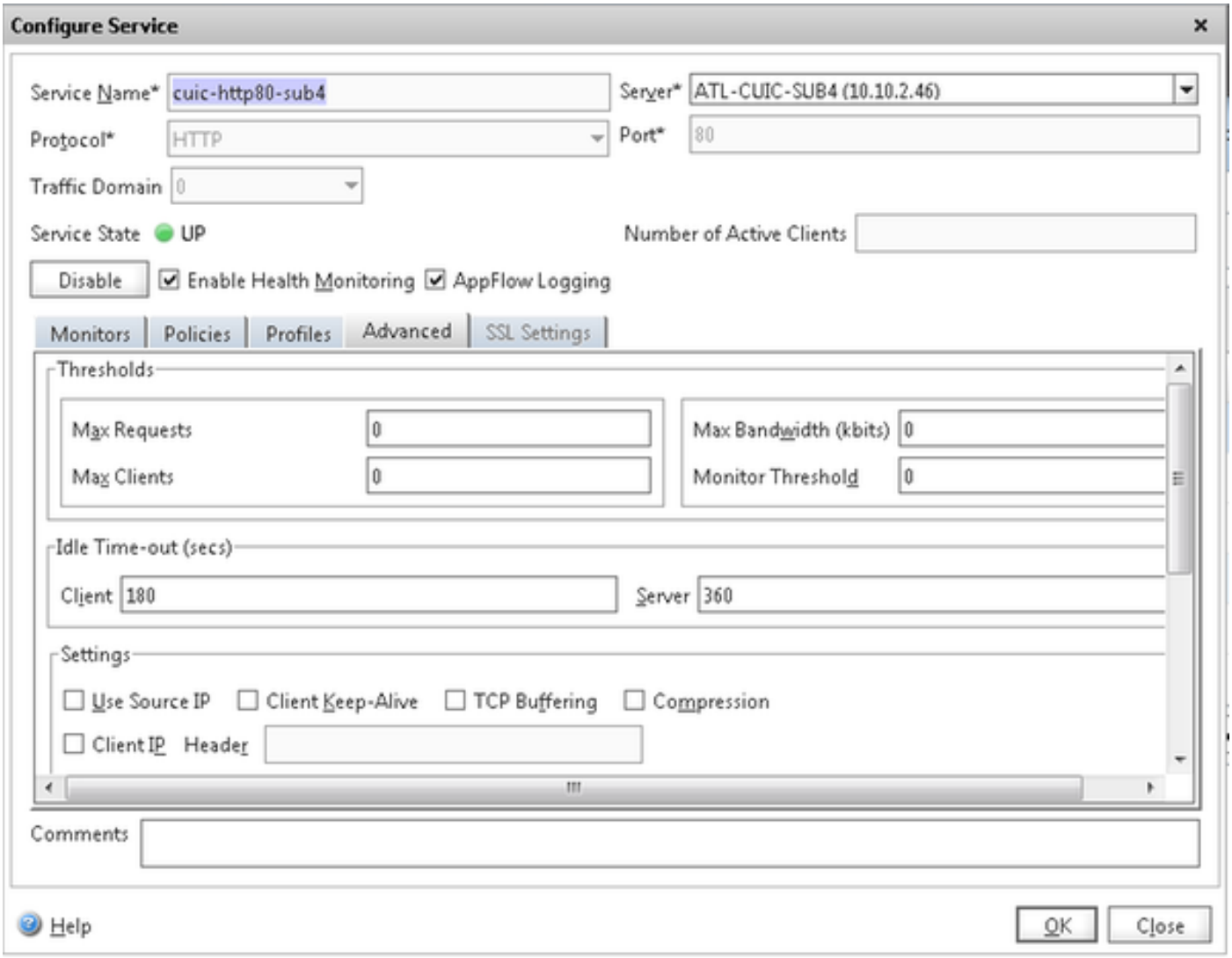
创建服务

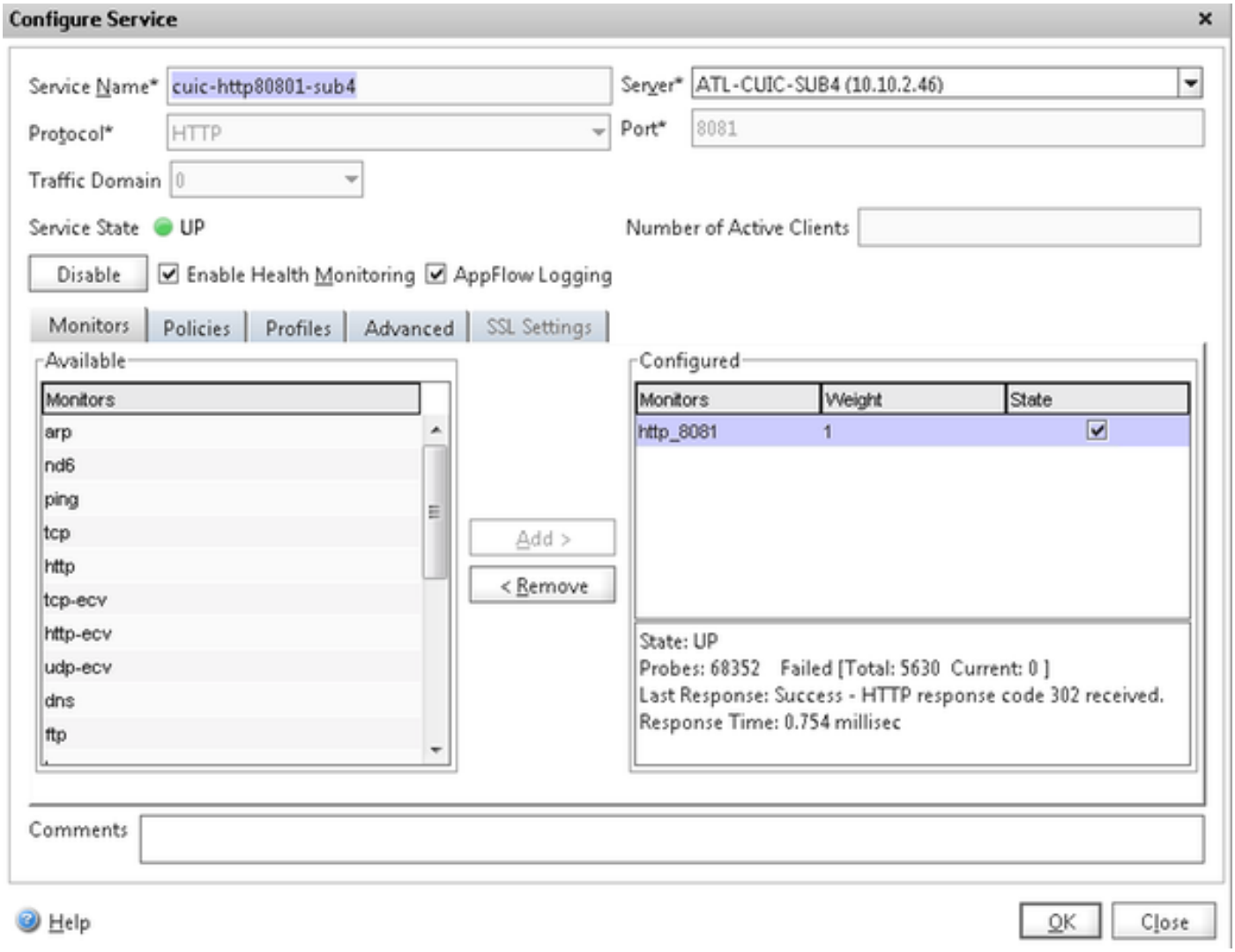
要创建监控程序，请连接对**流量管理>负载均衡>** Services，点击Add。

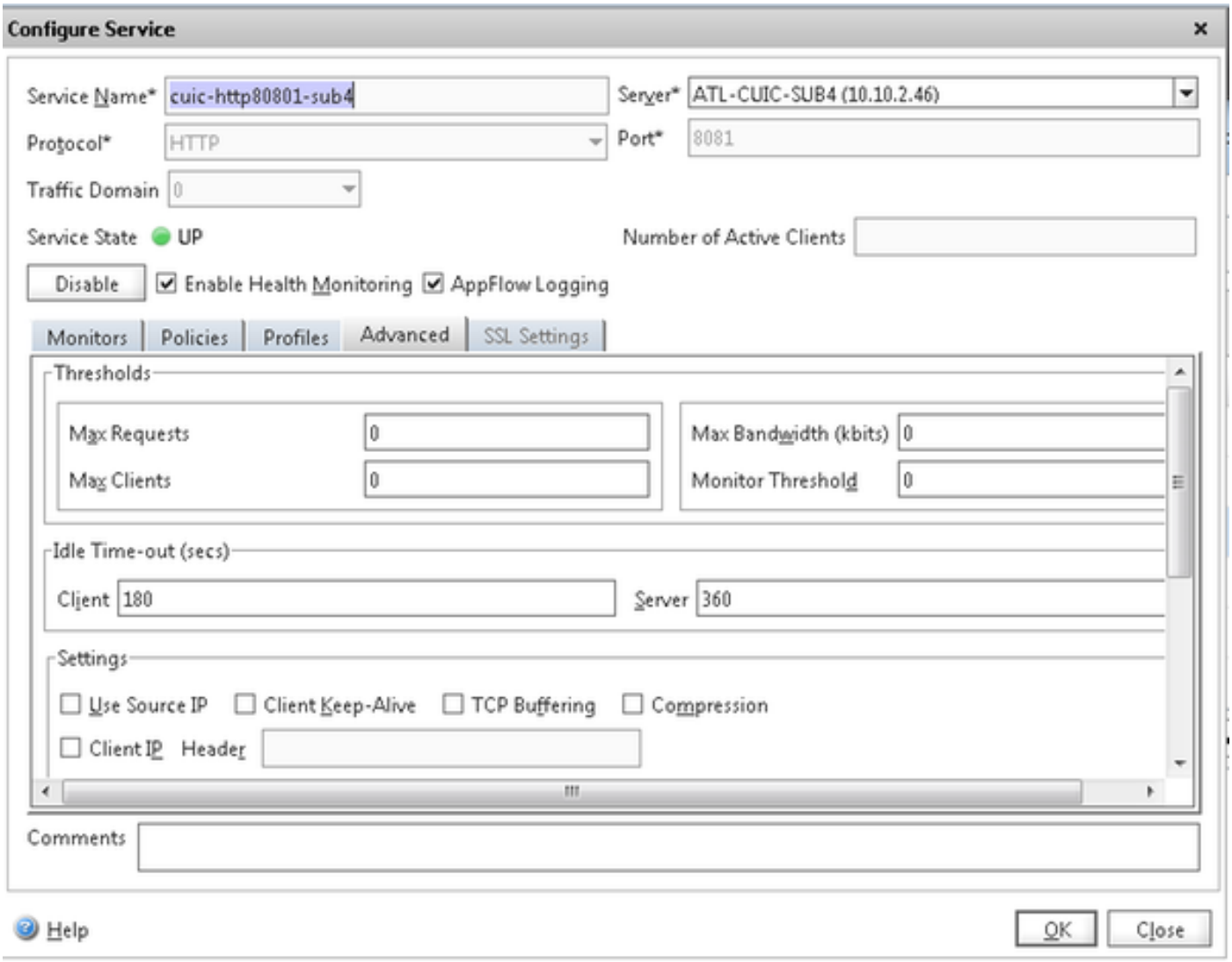


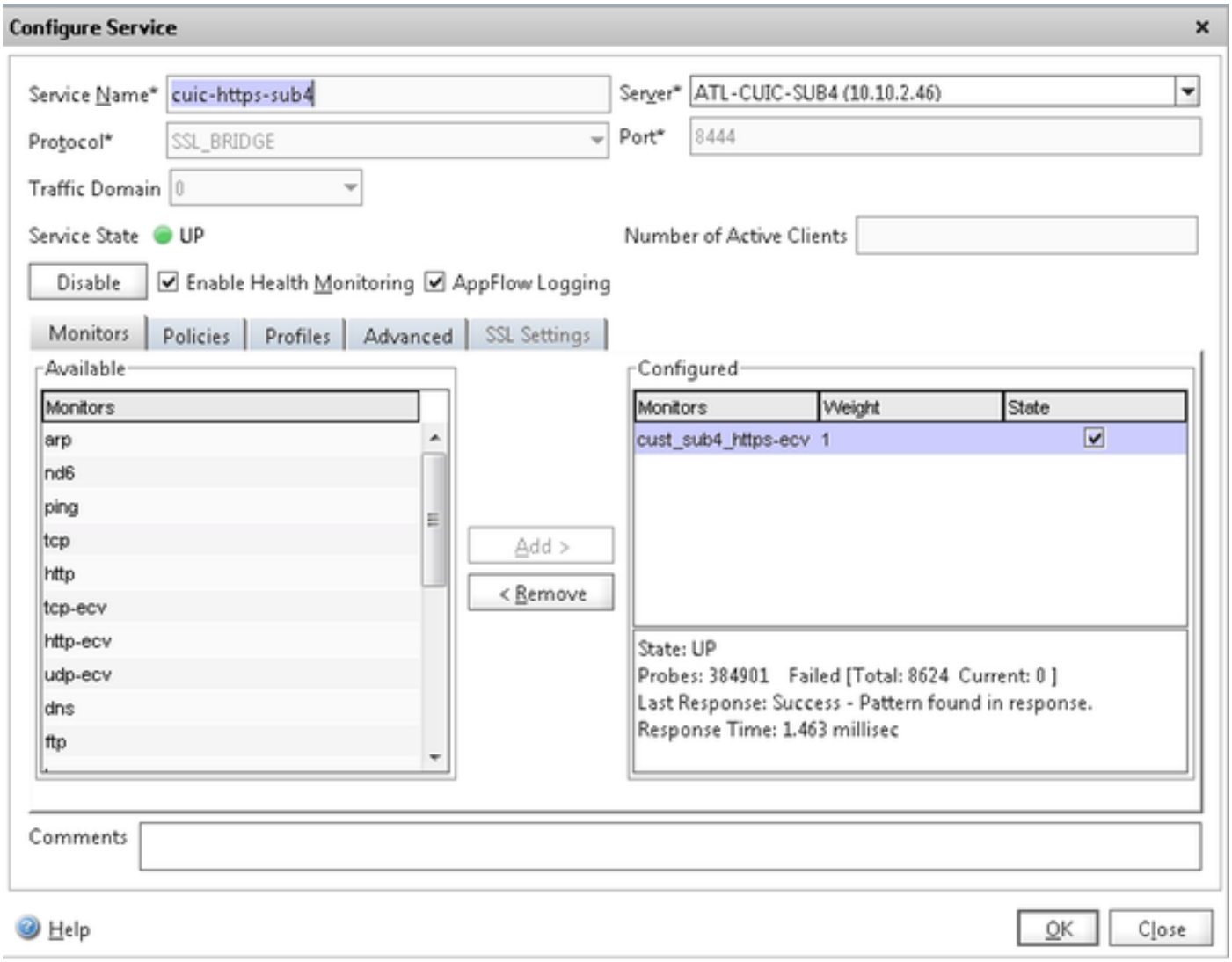
当没有被关联时的监控程序，默认监控程序在被配置的机箱也许显示。没有去除那，请选择正确的监控程序从从可用的列表的可用的监控程序(在此镜像它是**cust_tcp**)并且点击**添加**移动它向配置列表。单击 **Ok**。下时候，当打开此页，它显示仅所选的监控程序。默认监控程序消失。这发生，因为;服务总是需要与被监控的产生关联。如果没有配置什么都，负荷平衡器提供一个默认值一，但是，当用户选择那么时被监控的装载平衡器去掉默认监控程序。

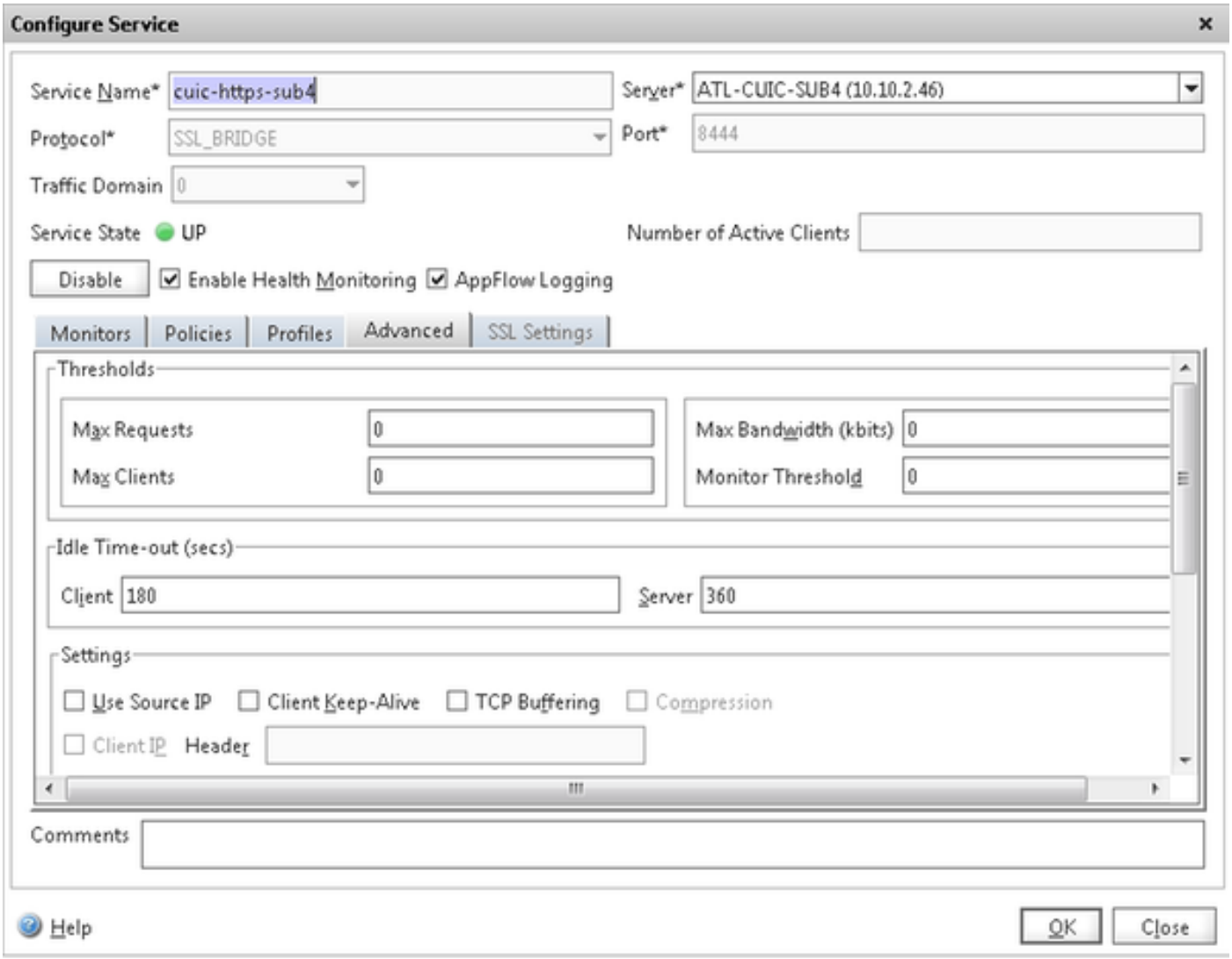



Configure Service
Service Name* cuic-http80-sub4
Server* ATL-CUIC-SUB4 (10.10.2.46)
Protocol* HTTP
Port* 80
Traffic Domain 0
Service State UP
Number of Active Clients
Disable
Enable Health Monitoring
AppFlow Logging
Monitors
Policies
Profiles
Advanced
SSL Settings
Thresholds
Max Requests 0
Max Clients 0
Max Bandwidth (kbits) 0
Monitor Threshold 0
Idle Time-out (secs)
Client 180
Server 360
Settings
Use Source IP
Client Keep-Alive
TCP Buffering
Compression
Client IP Header
Comments
Help
OK
Close

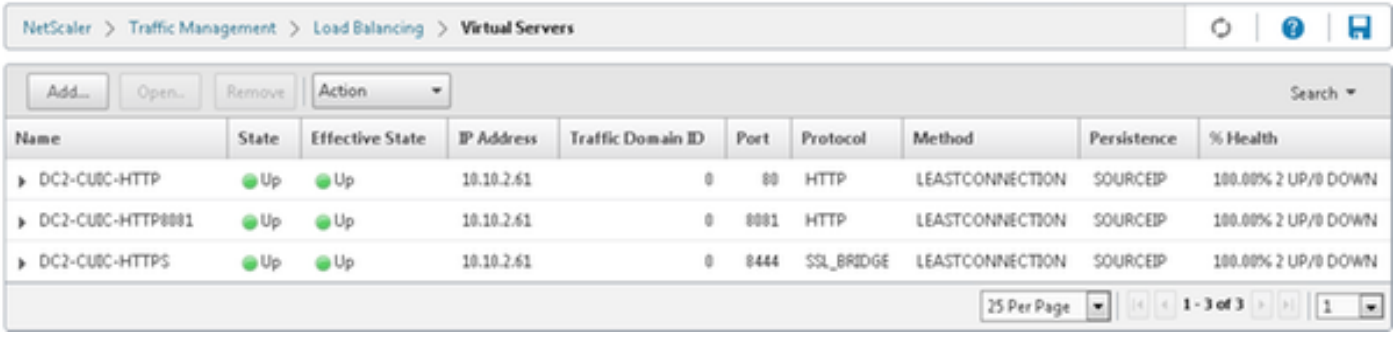

Configure Service
Service Name* cuic-http80801-sub4
Server* ATL-CUIC-SUB4 (10.10.2.46)
Protocol* HTTP
Port* 8081
Traffic Domain 0
Service State UP
Number of Active Clients
Disable
Enable Health Monitoring
AppFlow Logging
Monitors
Policies
Profiles
Advanced
SSL Settings
Available
Monitors
arp
nd6
ping
tcp
http
tcp-ecv
http-ecv
udp-ecv
dns
ftp
Add >
< Remove
Configured
Monitors
Weight
State
http_8081
1
State: UP
Probes: 68352 Failed [Total: 5630 Current: 0]
Last Response: Success - HTTP response code 302 received.
Response Time: 0.754 millisec
Comments
Help
OK
Close


Configure Service
Service Name* cuic-http80801-sub4
Server* ATL-CUIC-SUB4 (10.10.2.46)
Protocol* HTTP
Port* 8081
Traffic Domain 0
Service State UP
Number of Active Clients
Disable
Enable Health Monitoring
AppFlow Logging
Monitors
Policies
Profiles
Advanced
SSL Settings
Thresholds
Max Requests 0
Max Clients 0
Max Bandwidth (kbits) 0
Monitor Threshold 0
Idle Time-out (secs)
Client 180
Server 360
Settings
Use Source IP
Client Keep-Alive
TCP Buffering
Compression
Client IP Header
Comments
Help
OK
Close


Configure Service
Service Name* cuic-https-sub4
Server* ATL-CUIC-SUB4 (10.10.2.46)
Protocol* SSL_BRIDGE
Port* 8444
Traffic Domain 0
Service State UP
Number of Active Clients
Disable
Enable Health Monitoring
AppFlow Logging
Monitors
Policies
Profiles
Advanced
SSL Settings
Available
Monitors
arp
nd6
ping
tcp
http
tcp-ecv
http-ecv
udp-ecv
dns
ftp
Add >
< Remove
Configured
Monitors
Weight
State
cust_sub4_https-ecv 1
State: UP
Probes: 384901 Failed [Total: 8624 Current: 0]
Last Response: Success - Pattern found in response.
Response Time: 1.463 millisec
Comments
Help
OK
Close

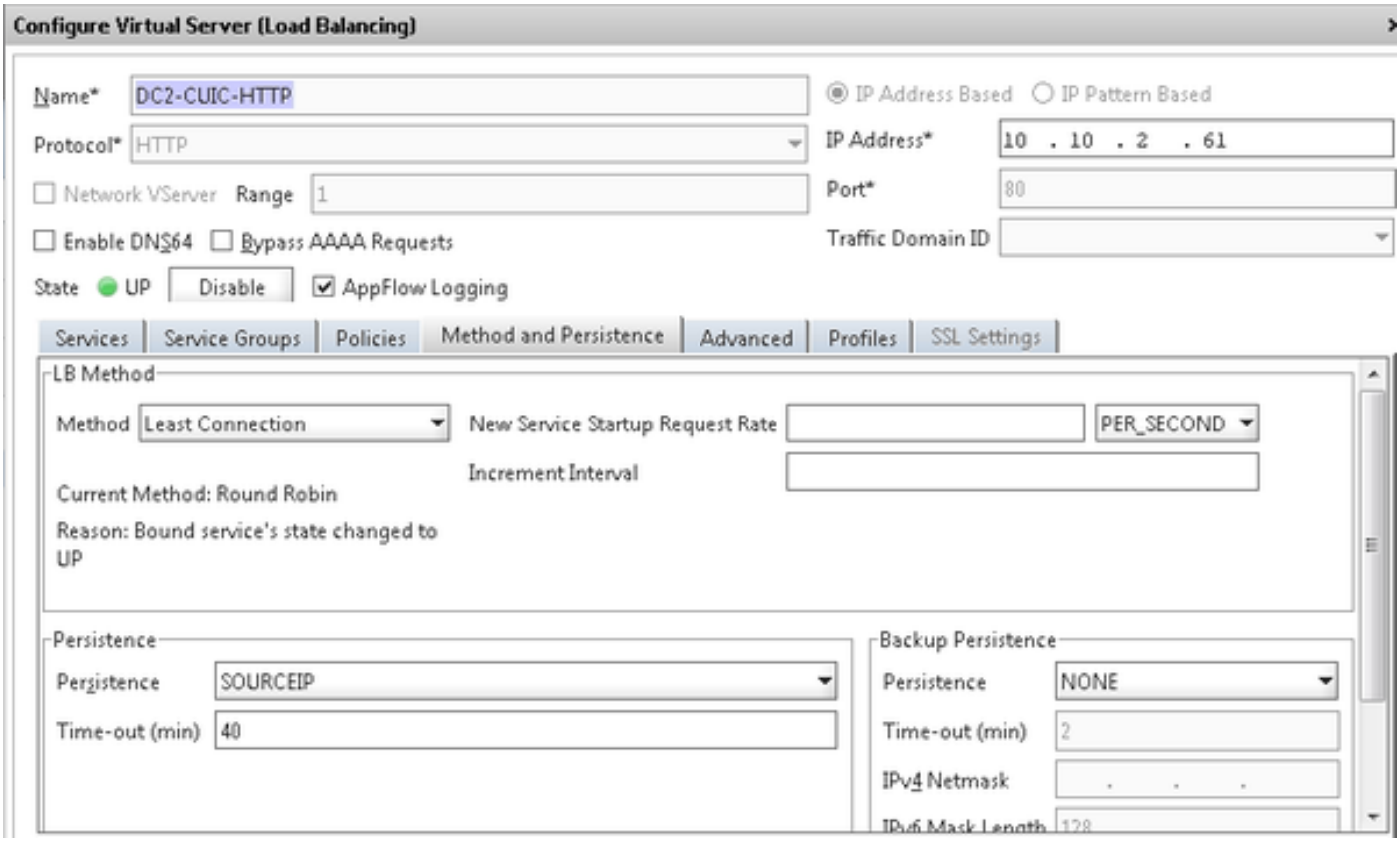


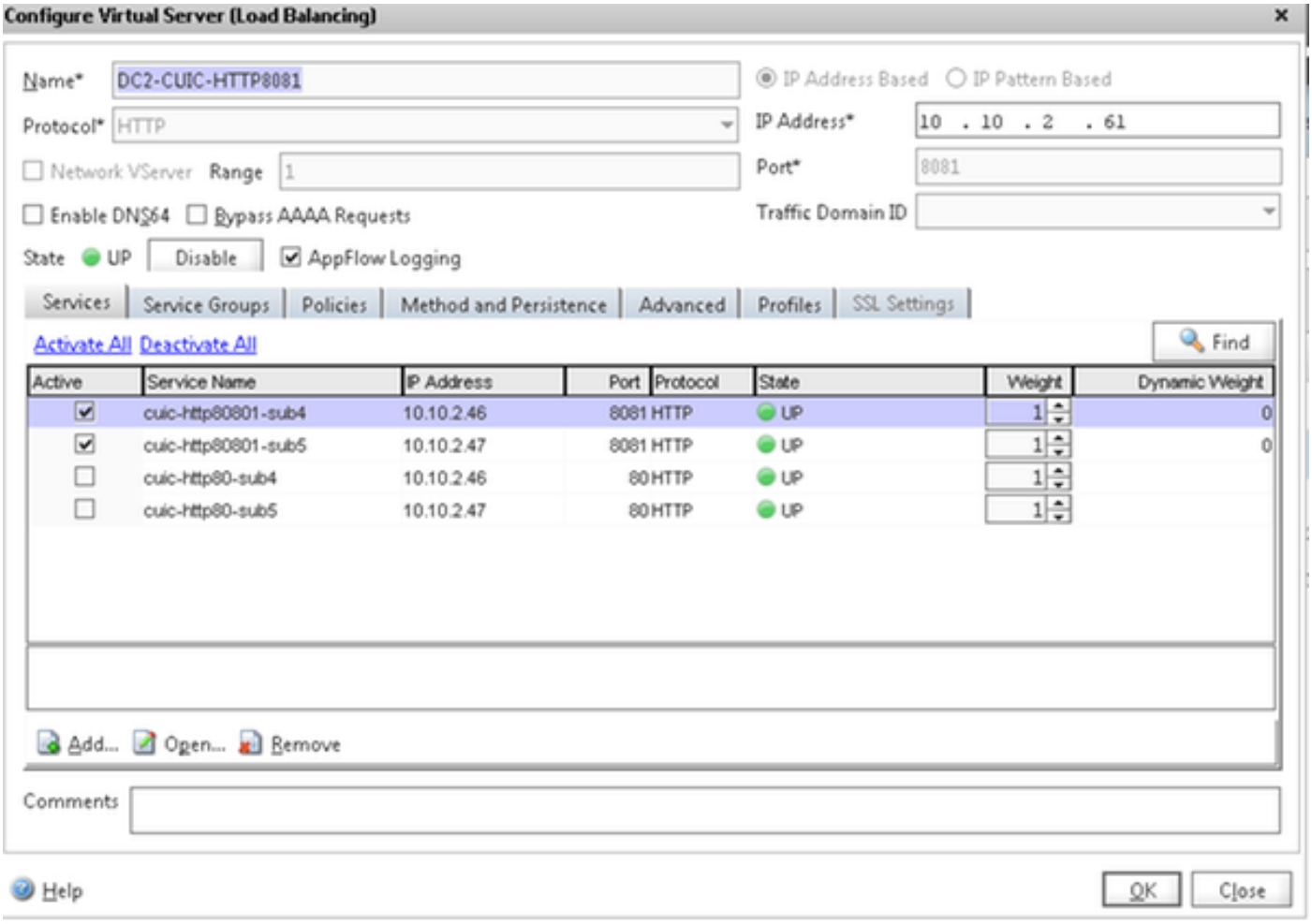
创建虚拟服务器

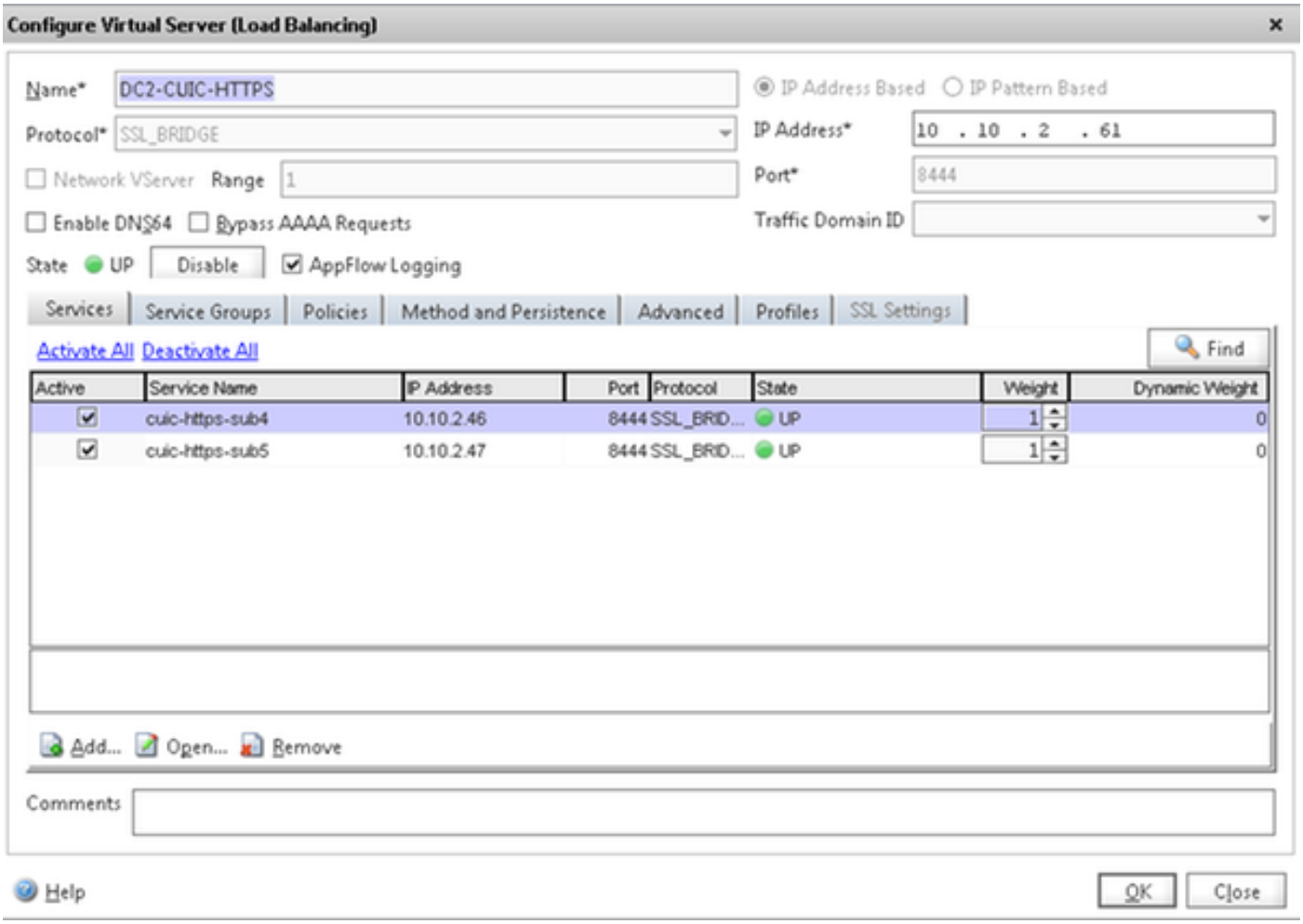


要创建虚拟服务器，连接到**流量管理>负载均衡>虚拟服务器**，和点击**添加**。
检查需要与此虚拟服务产生关联的服务。

在**方法和持续时间**选项，请选择**方法**作为**最少连接**，**持续时间**作为SOURCEIP和**超时**作为40分钟。这是因为默认历史报告的刷新率设置为30分钟;您比刷新率需要配置若干值极大。如果配置历史报告的另外刷新率，则请更改此值。


Configure Virtual Server (Load Balancing)
Name* DC2-CUIC-HTTP
Protocol* HTTP
Network VServer Range 1
Enable DNS64 Bypass AAAA Requests
State UP Disable AppFlow Logging
IP Address Based IP Pattern Based
IP Address* 10 . 10 . 2 . 61
Port* 80
Traffic Domain ID
Services Service Groups Policies Method and Persistence Advanced Profiles SSL Settings
LB Method
Method Least Connection
New Service Startup Request Rate PER_SECOND
Increment Interval
Current Method: Round Robin
Reason: Bound service's state changed to UP
Persistence
Persistence SOURCEIP
Time-out (min) 40
Backup Persistence
Persistence NONE
Time-out (min) 2
IPv4 Netmask
IPv6 Mask Length 128


Configure Virtual Server (Load Balancing)
Name* DC2-CUIC-HTTP8081
Protocol* HTTP
Network VServer Range 1
Enable DNS64 Bypass AAAA Requests
State UP Disable AppFlow Logging
IP Address Based IP Pattern Based
IP Address* 10 . 10 . 2 . 61
Port* 8081
Traffic Domain ID
Services Service Groups Policies Method and Persistence Advanced Profiles SSL Settings
Activate All Deactivate All
Find
Active Service Name IP Address Port Protocol State Weight Dynamic Weight
cuic-http80801-sub4 10.10.2.46 8081 HTTP UP 1 0
cuic-http80801-sub5 10.10.2.47 8081 HTTP UP 1 0
cuic-http80-sub4 10.10.2.46 80 HTTP UP 1
cuic-http80-sub5 10.10.2.47 80 HTTP UP 1
Add... Open... Remove
Comments
Help
OK
Close

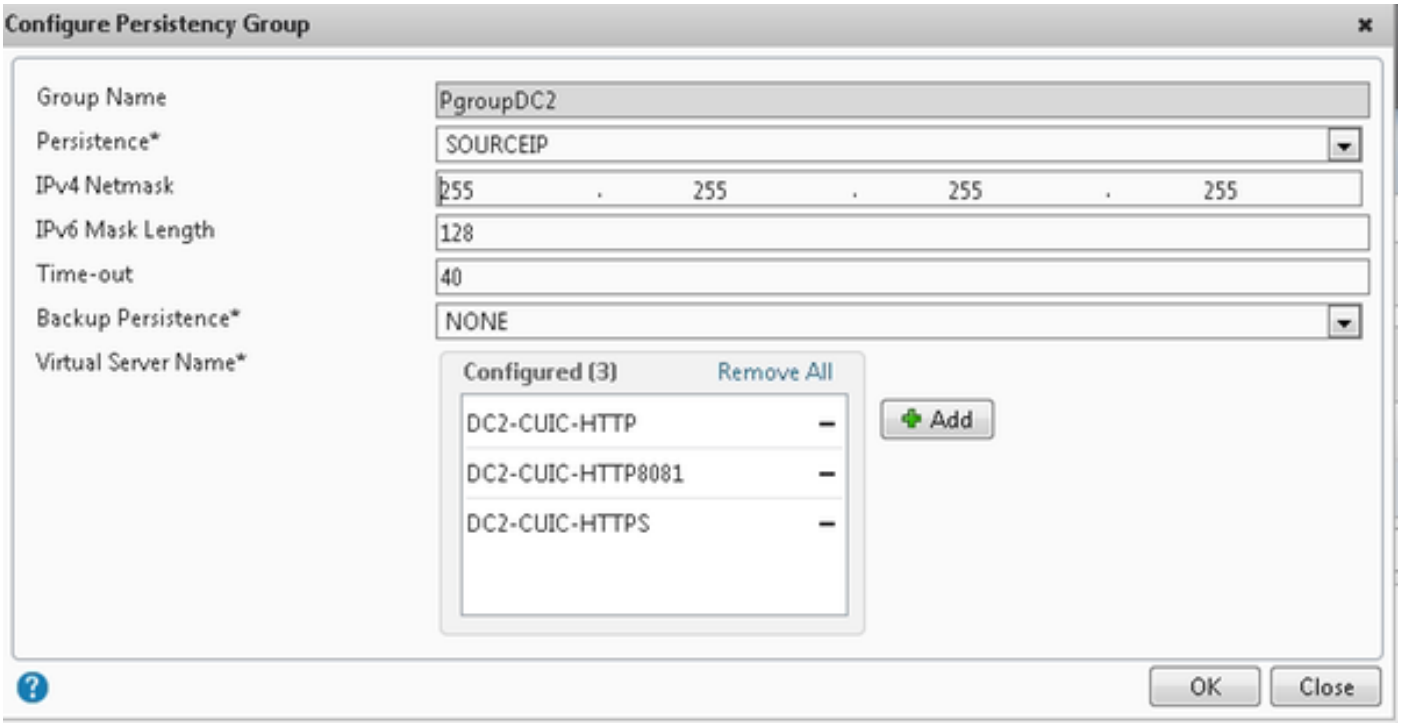


创建持续时间组

要创建持续时间组，请连接对**流量管理>负载均衡>持续时间组**，点击**添加**。

选择**方法**作为**最少连接**，**持续时间**作为SOURCEIP和**超时**作为40分钟。这是因为默认历史报告的刷新率设置为30分钟;您比刷新率需要配置若干值极大。如果配置历史报告的另外刷新率，则请更改此值。

因为每个CUIC服务器在三个端口监听，您需要包括全部三个虚拟服务器这里。如果对已经被发送到特定CUIC服务器的HTTP 80端口的客户端的要求，自瞄准对端口8081的该客户端的所有请求，8444路由对同样CUIC。



参考

1. http://support.citrix.com/proddocs/topic/netscaler/ns-gen-netscaler-wrapper-con.html