# HTTP Redirect for the Content Switching Module Configuration Example

## Document ID: 47960



# Introduction

This document provides a sample configuration for configuring HTTP redirect on the Content Switching Module (CSM). Redirects can be used to send a client to a remote site when, for example, the main site is down for maintenance or any other reason.

# Prerequisites

## Requirements

There are no specific requirements for this document.

## Components Used

The information in this document is based on these software and hardware versions:

- CSM version 3.x
- Native IOS 12.1E

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.

## Related Products

This configuration can also be used with these hardware and software versions:

- CatOS 7.x
- Multilayer Switch Feature Card (MSFC) IOS 12.1E

## Conventions

For more information on document conventions, refer to the Cisco Technical Tips Conventions.

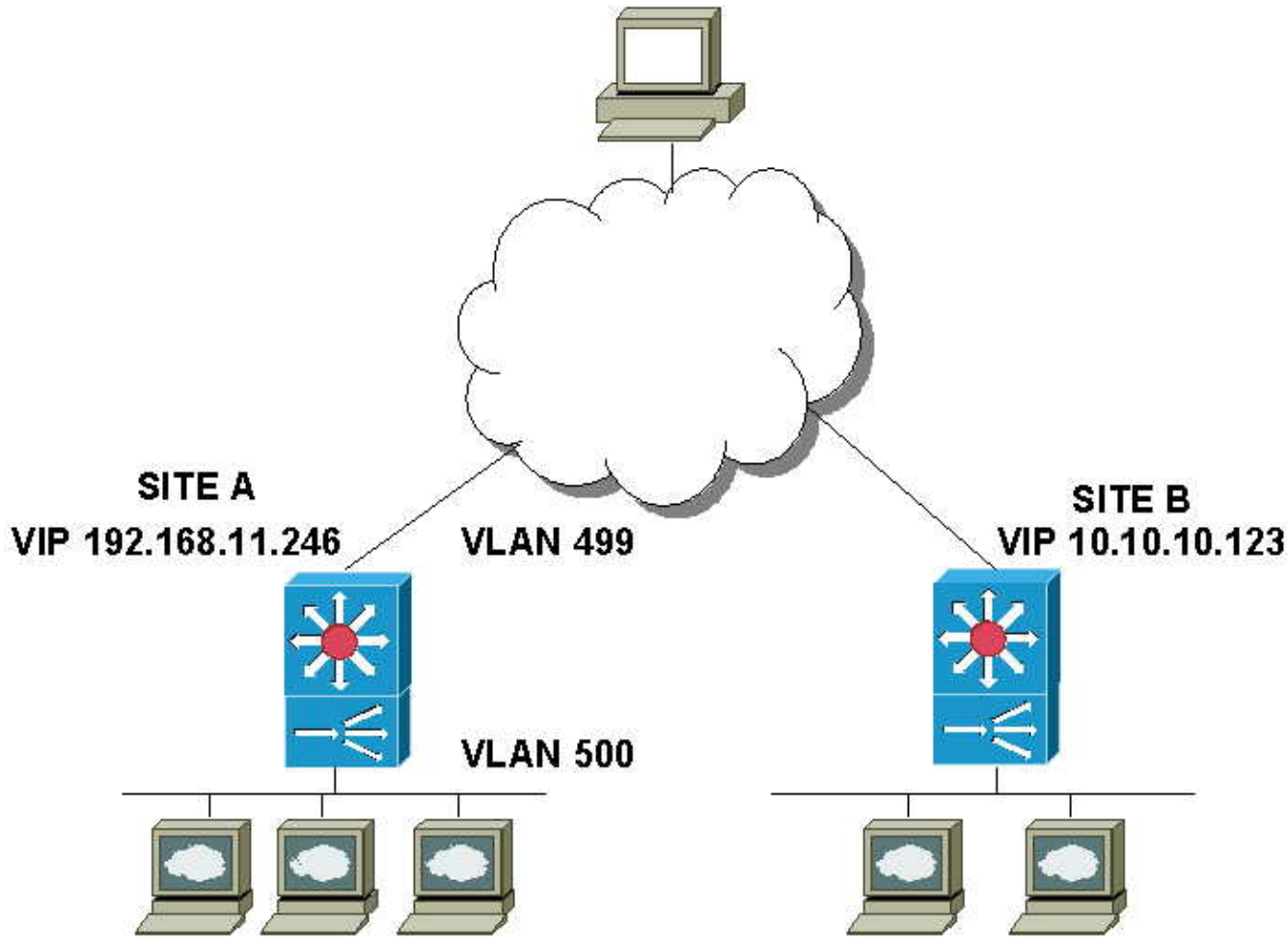
# Configure

In this section, you are presented with the information to configure the features described in this document. This configuration allows the CSM of site A to redirect the client to site B when the server at site A is down.

**Note:** To find additional information on the commands used in this document, use the Command Lookup Tool ( registered customers only) .

## Network Diagram

This document uses this network setup:




## Configurations

This document uses this configuration:

| Configuration |
| --- |

```
 vlan 499 client
  ip address 192.168.10.97 255.255.254.0
  gateway 192.168.10.1
!
 vlan 500 server
  ip address 192.168.20.97 255.255.254.0
  route 192.168.50.0 255.255.255.0 gateway 192.168.20.1
!
 probe WEB_PING icmp


!--- This probe is used to track the availability of local servers.

  interval 2


!--- The ping interval has been reduced to two seconds to quickly detect a server down.

  retries 2
  failed 10
!
 serverfarm WEBFARM


!--- This is the local serverfarm.

  nat server
  no nat client
  real 192.168.21.3
   inservice


!--- You may have many Web servers here; only one is used for this example.

  probe WEB_PING


!--- Specified the probe to be used as WEB_PING to detect when servers
!--- are going down.

!
 serverfarm WEB_REDIRECT


!--- This is the redirect configuration.

  nat server


!--- NATing does not matter here because traffic is redirected.

  no nat client
  redirect-vserver TENSION


!--- Issue the redirect-vserver name
!--- command to enter the relocation mode.
!--- This replaces the configuration of the real servers.

   webhost relocation 10.10.10.123/%p


!--- In this example, the traffic is redirected to IP address 10.10.10.123.
```

```
!--- The IP address is the remote site virtual IP address.



!--- You can also specify a DNS name, such as www.cisco.com.
!--- The %p at the end tells the CSM to copy the directory path and the file from
!--- the initial HTTP request of the client.

   inservice
!
 vserver WEB
  virtual 192.168.11.246 tcp www
  serverfarm WEBFARM backup WEB_REDIRECT


!--- The redirect serverfarm is specified as a backup of the local Web farm.
!--- When all servers are down in the local farm, traffic is redirected to the
!--- remote site.

  persistent rebalance
  inservice
!
```

# Verify

This section provides information you can use to confirm your configuration is working properly.

- **show mod csm *slot* probe detail**

```
show mod csm 4 probe detail
probe           type    port  interval retries failed  open   receive
------------------------------------------------------------------------
WEB_PING        icmp     2        2        10             10

real            vserver         serverfarm      policy         status
------------------------------------------------------------------------------
192.168.21.3:80     WEB           WEBFARM    (default)     FAILED
```

- **show mod csm *slot* real**

```
show mod csm 4 real

real                  server farm      weight  state          conns/hits
------------------------------------------------------------------------
192.168.21.3          WEBFARM          8       FAILED         0
```

- **show mod csm *slot* vserver name *name* detail**

```
show mod csm 4 vservers name web

vserver         type  prot virtual                  vlan state        conns
------------------------------------------------------------------------------
WEB             SLB   TCP  192.168.11.246/32:80     ALL  OUTOFSERVICE 0
cpu0#show mod csm 4 vservers name web det
WEB, type = SLB, state = OUTOFSERVICE, v_index = 31
  virtual = 192.168.11.246/32:80 bidir, TCP, service = NONE, advertise = FALSE
  idle = 3600, replicate csrp = none, vlan = ALL, pending = 30
  max parse len = 2000, persist rebalance = TRUE
  ssl sticky offset = 0, length = 32
  conns = 0, total conns = 13
```

```
Default policy:
  server farm = WEBFARM, backup = WEB_REDIRECT (no sticky)
  sticky: timer = 0, subnet = 0.0.0.0, group id = 0
Policy          Tot matches  Client pkts  Server pkts
------------------------------------------------------
(default)       13           25           17
```

You can also verify if the configuration working properly by capturing a sniffer trace and verifying what the CSM returns to an HTTP request to the Web Vserver. It is also possible to determine if this is working by viewing the URL that displays on the browser after the connection has been completed.

# Troubleshoot

There is currently no specific troubleshooting information available for this configuration.

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| --- |
| Emerging Technologies: Content Networking |

# Related Information

- **Configuring the Content Switching Module**
- **Content Switching Module Software Downloads ( registered customers only)**
- **Technical Support − Cisco Systems**

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