

Load Balancing during Maintenance Window

Use Case:

Datacenter maintenance is a large activity and is planned well in advance. Many times during the maintenance window you bring down part of the service and let the other part continue serving clients and then do the same for other part of resources. In this example we will demonstrate how ADC can help switch traffic flow to different backend resources based on time interval request comes in.

F5 iRule:

```
when RULE_INIT {

    # Start of maintenance window in YYYY-mm-dd HH:MM format
    set static::start_date "2011-05-29 18:45"

    # End of maintenance window in YYYY-mm-dd HH:MM format
    set static::end_date "2011-05-29 18:50"

    # Convert start/end times to seconds from the epoch for easier date
    comparisons
    set static::start [clock scan $static::start_date]
    set static::end [clock scan $static::end_date]
}

when CLIENT_ACCEPTED {

    # Get the current time in seconds since the Unix epoch of 0-0-1970
    set now [clock seconds]
    # Check if the current time is between the start and end times
    if {$now > $static::start and $now < $static::end}{
        pool MAINT_POOL
    }

    # Default action is to use the virtual server default pool
}
```

NetScaler Solution:

```
add cs action time1 -targetLBvserver v1
add cs policy pol_time1 -rule "SYS.TIME.BETWEEN(GMT 2016 Jan 01 01h 02m 03s,GMT 2016
Jan 01 12h 02m 03s)" -action time1
```

```
add cs action time2 -targetLBvserver v2
add cs policy pol_time2 -rule "SYS.TIME.BETWEEN(GMT 2016 Jan 01 13h 02m 03s,GMT 2016
Jan 01 23h 02m 03s)" -action time2
```

```
bind cs vserver cs_vip1 -policy pol_time1 -priority 1
bind cs vserver cs_vip1 -policy pol_time2 -priority 2
```

Here based on the system time we learn from NetScaler, policy decision will be made to send traffic to vserver 1 or 2.