

Happy New Year! Here is a little tip on how we used the `check_http` and `check_bigip_pool` to eliminate our need for WebTrends. The servers being monitored are in the DMZ and the Nagios host is inside our firewall. I have deployed the NRPE daemon to our Solaris 9 servers, so we will also need to modify the `nrpe.cfg` file. The `check_bigip_pool` is run against our F5 appliance, which we use for load balancing. The `check_bigip_pool` command is run from the Nagios host against the F5. The following information is step-by-step on how I set these hosts and services up.

Using `check_http` is very straight forward. I would suggest that you concentrate on receiving a string or file size in addition to the straight HTTP service check. You also want to check the results by running the command from the command line.

Using `check_bigip_pool` is also straight forward. You will need a hostname (hostname for F5), community (generally public), software version and pool name. The `check_bigip_pool` will return the number of nodes found running on the F5. So, you will need to work with the warning and critical percentages. HINT: If `check_bigip_pool` finds one of two nodes running and you only require one node running, set the warning to 49 and critical to 25. When both nodes are down you will receive a critical alert and notification.

Here are the configuration steps for this setup:

Define what is to be monitored (NOTE: this is just an outline, my organizational setup monitors 5 clients and 7 different ports):

Client	URL	Port	HTTP Response
webstore.<your domain>.com	http://webstore	80	OK
webstore.<your domain>.com	http://webstore.com/WatchDog.tem	80	OK – I am here
f5host.<your domain>.com	your pool name		count of nodes up

**Service definition are placed within a template file. I prefer to place service definitions within a file that is descriptive of the function. You will also need to create a separate service definition for each service check, because you need to create distinct `service_descriptions` section. You can leave blanks in the service description; however, I do not because it will remove your ability to acknowledge problems via email. I also used the “hosts” flag instead of `hostgroups`, because I have 4 webstore servers, but not all of them are looking at the same URLs and ports. Also include a notes section, we will be using it later for our notification email.*

[Service Definition](#) (`nagios_host:/path-to-nagios/etc/objects/services/srv_check_http.cfg`):

```
define service{
    use                generic-service
    hosts              hostname
    notes              description of the service being monitored.
    service_description check_webstore
    check_command      check_nrpe!check_webstore
    max_check_attempts 3
    normal_check_interval 5
    retry_check_interval 1
    check_period       24x7
    contact_groups     webstore_admins
}
```

```
}
```

**Notice the variation in the check_command definition? This is so you can run the command on the Nagios host and be listed under the defined host.*

F5 Service Definition (nagios_host:/path-to-nagios/etc/objects/services/f5_checks.cfg):

```
define service{
    use                generic-service
    hosts              f5host
    service_description webstore_business_station
    notes              There are 0 nodes online for http://business-station.coat.com.
    check_command      check_webstore_business_station_pool!
    max_check_attempts 3
    normal_check_interval 5
    retry_check_interval 1
    notification_period 24x7
    check_period       24x7
    contact_groups     webstore_admins
}
```

**Host definition is placed within a template. I have created a separate template for each classification of hosts, which makes it easier to find and update hosts. The host definition would be the same for the f5 server.*

Host Definition (nagios_host:/path_to_nagios/etc/objects/hosts/webstore_servers.cfg):

```
define host{
    use                webstore-servers ; Name of host template to use
    host_name          your host's name
    address            ip_address
    alias              short name for your host
    notes              <b>What does the host do<br>LOCATION:      <br>CONSOLE:
</b><br>
    icon_image         sun_logo.gif
    icon_image_alt     Sun Host
    hostgroups         Add your host groups for standard monitoring and specialty monitoring
    notification_period 24x7
}
```

**Here is how I defined the commands. For separation purposes, I prefer to the definitions within a distinct configuration file and give each command name a distinct definition. This way if one port is not accessible, you can address the one port issue and not assume the entire web application is down.*

Command Definition (nagios_host:/path_to_nagios/etc/objects/commands/cmd_http.cfg):

```
define command{
    command_name       check_webstore
    command_line       $USER1$/check_http -H $ARG1$ -u $ARG2$ -p $ARG3$
}
```

```
}
```

F5 Command Definition

(nagios_host:/path_to_nagios/etc/objects/commands/cmd_check_bigip_pool.cfg):

```
define command{
    command_name      check_webstore_pool
    command_line      $USER1$/check_bigip_pool -H $HOSTADDRESS$ -C $ARG1$ -S
$ARG2$ -P $ARG3$ -w $ARG4$ -c $ARG5$
}
```

**I combine the contactgroup with the contact definition in its own file. You may not have the luxury of email aliases, so this helps me manage the contacts for a specific host or service.*

Contact Definition (nagios_host:/path_to_nagios/etc/objects/contacts/webstore_admins.cfg):

```
define contactgroup{
    contactgroup_name    webstore_admins
    alias                WEBSTORE ADMINS
    members              webstore_admins
}
define contact{
    contact_name         webstore_admins
    alias               WEBSTORE Admins
    contact_groups      webstore_admins
    host_notifications_enabled 0
    service_notifications_enabled 1
    service_notification_period 24x7
    host_notification_period 24x7
    service_notification_options w,u,c,r
    host_notification_options d,r
    service_notification_commands notify-webstore-service-by-email
    host_notification_commands notify-linux-host-by-email
    email               webstore\_support@your\_domain.com
    can_submit_commands 1
}
```

**Notifications are fun. I keep separate command files, because different groups need to receive different information. Notice that the service_notification_commands in the contacts matches the notification definition command name. Within the definition, you will find the notes section after the “-s” flag and also the method I use for enabling problem acknowledgments via a link within email.*

Notification Definition

(nagios_host:/path_to_nagios/etc/objects/commands/webstore_admins_email_notification.cfg):

```
# Linux 'notify-webstore-service-by-email' command definition
define command{
    command_name    notify-webstore-service-by-email
    command_line    /usr/bin/printf "%b" "If this is a CRITICAL problem, please insure the
```

