

icinga2 to oiv dashboard notification

Here is document which help in understanding OIV post/get request.

[xcal-API Documentation-290715-1451-433.pdf](#)

[xcal-oiv frequently asked questions-290715-1528-435.pdf](#)



1st Step: Write POST script for OIV

Below are two scripts which basically send POST request to **OIV** dashboard from **ICINGA2** when any host is down or service status changes from **OK->critical** or **OK->Warning** and vice versa

```
[root@icinga2 ~]# cd /etc/icinga2/scripts/
[root@icinga2 scripts]# ll
total 16
-rwxr-xr-x 1 icinga icinga 734 Aug  2 16:17 icinga-oiv-host.sh
-rwxr-xr-x 1 icinga icinga 774 Aug  2 13:45 icinga-oiv.sh
-rwxr-xr-x 1 icinga icinga 384 Apr 20 18:30 mail-host-notification.sh
-rwxr-xr-x 1 icinga icinga 437 Apr 20 18:30 mail-service-notification.sh
```

OIV Host script

```
[root@icinga2 scripts]# cat icinga-oiv-host.sh
#!/bin/sh

/usr/bin/curl -s -k -X POST -H "Content-type: application/json" -d '{ "access_token":
"856fe6e00dafb99d171d54120cb82b2b", "format":"json", "alarm":{"name":"'${HOSTDISPLAYNAME}',
"originating_system":"eventswitcher","impact_level":"low","alarm_type":"application","sop":"https:
//www.teamccp.com/confluence/display/xcal/SOP-for-reconnects"},"events": [{"subject":
"'${HOSTDISPLAYNAME}', "application_name":"'${NOTIFICATIONTYPE}', "service_desk":"TEST","description":
"Please follow this SOP to check the status of the alarm: http","host_impacted":"'${HOSTALIAS}',
"event_status":"'${HOSTSTATE}', "host_ip_address":"'${HOSTADDRESS}', "initiated_at":"'$(date -u +"
%Y-%m-%dT%H:%M:%SZ")'"}]}' 'http://cpg-oiv-api.sys.comcast.net/v1/alarms'
```

OIV service script:

```
[root@icinga2 scripts]# cat icinga-oiv.sh
#!/bin/sh

/usr/bin/curl -s -k -X POST -H "Content-type: application/json" -d '{ "access_token":
"856fe6e00dafb99d171d54120cb82b2b", "format":"json", "alarm":{"name":"'${SERVICEDESC}',
"originating_system":"eventswitcher","impact_level":"low","alarm_type":"application","sop":"https:
//www.teamccp.com/confluence/display/xcal/SOP-for-reconnects"},"events": [{"subject":"'${SERVICEDESC}',
"application_name":"'${SERVICEDISPLAYNAME}', "service_desk":"TEST","host_ip_address":"'${HOSTADDRESS}',
"description":"Please follow this SOP to check the status of the alarm: http","host_impacted":
"'${HOSTALIAS}', "service_impacted":"'${SERVICEDISPLAYNAME}', "event_status":"'${SERVICESTATE}',
"initiated_at":"'$(date -u +"%Y-%m-%dT%H:%M:%SZ")'"}]}' 'http://cpg-oiv-api.sys.comcast.net/v1/alarms'
```

IMP NOTE: Once the entire configuration migrated from **RACON** to **ICINGA2** we need to change below component to send the notification to **CNOC_Residential_Email** dashboard instead of **TEST** dashboard :

FROM

```
"service_desk":"TEST"
```

TO

```
"service_desk":"CNOC_Residential_Email"
```

Below is **TEST Dashborad** for OIV:



The screenshot shows the Icinga2 dashboard for the 'TEST' service desk. It displays a table with columns for Name, Hostname, IP Address, and Status. The table contains several rows of data, including 'TEST-01', 'TEST-02', 'TEST-03', 'TEST-04', and 'TEST-05'. The status of each host is indicated by a green dot, signifying they are up.

Name	Hostname	IP Address	Status
TEST-01	TEST-01	192.168.1.1	Up
TEST-02	TEST-02	192.168.1.2	Up
TEST-03	TEST-03	192.168.1.3	Up
TEST-04	TEST-04	192.168.1.4	Up
TEST-05	TEST-05	192.168.1.5	Up

Below is **CNOC_Residential_Email Dashborad** for OIV:



The screenshot shows the Icinga2 dashboard for the 'CNOC_Residential_Email' service desk. It displays a table with columns for Name, Hostname, IP Address, and Status. The table contains several rows of data, including 'CNOC-01', 'CNOC-02', 'CNOC-03', 'CNOC-04', and 'CNOC-05'. The status of each host is indicated by a green dot, signifying they are up.

Name	Hostname	IP Address	Status
CNOC-01	CNOC-01	192.168.1.1	Up
CNOC-02	CNOC-02	192.168.1.2	Up
CNOC-03	CNOC-03	192.168.1.3	Up
CNOC-04	CNOC-04	192.168.1.4	Up
CNOC-05	CNOC-05	192.168.1.5	Up



2nd Step: Define command for OIV Notification

```
[root@respoller-ch2d-03c db_idol]# cd /etc/icinga2/zones.d/global-templates/  
[root@respoller-ch2d-03c global-templates]# pwd  
/etc/icinga2/zones.d/global-templates  
[root@respoller-ch2d-03c global-templates]#
```

```
[root@icinga2 global-templates]# ll  
total 52  
-rw-r----- 1 icinga icinga 2566 Aug  2 12:14 commands.conf  
-rw-r----- 1 icinga icinga  966 Aug  2 12:21 notifications.conf  
-rw-r----- 1 icinga icinga 2264 Aug  2 12:15 templates.conf
```

```
[root@icinga2 global-templates]# cat commands.conf
object NotificationCommand "icinga-oiv-host-notification" {
    import "plugin-notification-command"

    command = [ SysconfDir + "/icinga2/scripts/icinga-oiv-host.sh" ]

    env = {
        NOTIFICATIONTYPE = "$notification.type$"
        HOSTALIAS = "$host.display_name$"
        HOSTADDRESS = "$address$"
        HOSTSTATE = "$host.state$"
        LONGDATETIME = "$icinga.long_date_time$"
        HOSTOUTPUT = "$host.output$"
        NOTIFICATIONAUTHORNAME = "$notification.author$"
        NOTIFICATIONCOMMENT = "$notification.comment$"
        HOSTDISPLAYNAME = "$host.display_name$"
        USEREMAIL = "$user.email$"
    }
}

object NotificationCommand "icinga-oiv-notification" {
    import "plugin-notification-command"

    command = [ SysconfDir + "/icinga2/scripts/icinga-oiv.sh" ]

    env = {
        NOTIFICATIONTYPE = "$notification.type$"
        SERVICEDESC = "$service.name$"
        HOSTALIAS = "$host.display_name$"
        HOSTADDRESS = "$address$"
        SERVICESTATE = "$service.state$"
        LONGDATETIME = "$icinga.long_date_time$"
        SERVICEOUTPUT = "$service.output$"
        NOTIFICATIONAUTHORNAME = "$notification.author$"
        NOTIFICATIONCOMMENT = "$notification.comment$"
        HOSTDISPLAYNAME = "$host.display_name$"
        SERVICEDISPLAYNAME = "$service.display_name$"
        USEREMAIL = "$user.email$"
    }
}
```



3rd Step: Define template for OIV Notification

```
[root@icinga2 global-templates]# cat tempates_oiv.conf
template Notification "icinga-oiv-notification" {
    command = "icinga-oiv-notification"

    states = [ OK, Warning, Critical, Unknown ]
    types = [ Problem, Acknowledgement, Recovery, Custom,
              FlappingStart, FlappingEnd,
              DowntimeStart, DowntimeEnd, DowntimeRemoved ]

    period = "24x7"
}

template Notification "icinga-oiv-host-notification" {
    command = "icinga-oiv-host-notification"

    states = [ Up, Down ]
    types = [ Problem, Acknowledgement, Recovery, Custom,
              FlappingStart, FlappingEnd,
              DowntimeStart, DowntimeEnd, DowntimeRemoved ]

    period = "24x7"
}
```



4th Step: Define Notification object for host/service alert to OIV dashboard

```
[root@respoller-ch2d-03c global-templates]# cat notifications_oiv.conf
apply Notification "icinga-icingaadmin" to Service {
    import "icinga-oiv-notification"

    user_groups = host.vars.notification.oiv.groups

    assign where host.vars.notification.oiv
}

apply Notification "icinga-host-icingaadmin" to Host {
    import "icinga-oiv-host-notification"

    user_groups = host.vars.notification.oiv.groups

    assign where host.vars.notification.oiv
}
```



5th Step: add vars to host defination

```
[root@respoller-ch2d-03c Agile-zone]# pwd
/etc/icinga2/zones.d/Agile-zone

[root@respoller-ch2d-03c Agile-zone]# vim haproxy-hosts.conf
object Host "reshaproxy-asa-01c.email.comcast.net" {
    import "generic-host"
    address = "96.119.176.231"
    vars.os = "linux"
    vars.notification["oiv"] = {
        groups = [ "icingaadmins" ]
    }
}
```