

```
app-server-group --> templates --> keepalived.conf.j2

! Configuration File for keepalived app server group

global_defs {
  notification_email {
    admin@ eezyn.com
  }
  notification_email_from joomla@eezyn.com
  smtp_servermail.eezyn.com
  smtp_connect_timeout30
  router_id LVS_DEVEL
}

vrrp_scriptchk_haproxy {
  script "killall-0 haproxy" # verify the pid existence
  interval 2 # check every 2 seconds
  weight 2 # add 2 points of prio if OK
}

vrrp_instance VI_1 {
  interface {{ keepalived_bind_interface }} # interface to monitor
  virtual_router_id 51 # Assign one ID for this route

  {% if inventory_hostname == app_master %}
  state MASTER
  priority 200 # 200 on master, 150 on backup 1, 100 on backup 2
  {% elif inventory_hostname == app_backup_1 %}
  state BACKUP
  priority 150 # 200 on master, 150 on backup 1, 100 on backup 2
  {% else inventory_hostname == app_backup_2 %}
  state BACKUP
  priority 100 # 200 on master, 150 on backup 1, 100 on backup 2
  {% endif %}
  virtual_ipaddress {
    {{ keepalived_vip }} dev {{ keepalived_bind_interface }} # the virtualIP
  }

}
```

We need to create a template file to modify the keepalived.conf file.

We should use if...then statement with variables to configure the master and backup application servers.

The keepalived template for the load balancer follows this same logic as well.

We might need to create a separate keepalived template file for each server group with keepalived enabled, if this same template cannot be used by different server groups.

```
hosts in YAML file format

all:
  children:
    app_server_group_all:
      children:
        app_server_group_1
        hosts:
          app_master: 121.12.121.1
          app_backup_1 : 121.121.211
          app_backup_2 : 1234.4.343

        app_server_group_2
        hosts:
          app_master: 121.12.121.1
          app_backup_1 : 121.121.219
          app_backup_2 : 1234.4.343

    load_balancer_server_group_all:
      children:
        load_balancer_server_group_1
        hosts:
          lb_master: 121.12.121.1
          lb_backup_1 : 121.121.211
          lb_backup_2 : 1234.4.343

    portainer_server_group_all:
      children:
        portainer_server_group_1:
          hosts:
            portainer_master: 2442.232.23
            portainer_backup_1:1129.24.42
```

app-server-group--> tasks

```
var --> Main.YAML

##### AllKeepalived settings #####

# Keepalived Portainer server settings
portainer_keepalived_bind_interface: ens34
portainer_keepalived_vip : 14.168.3.25
portainer_keepalived_priority: 1

# Keepalived load balancer server settings
keepalived_bind_interface: ens34
keepalived_vip : 192.168.3.25
keepalived_priority: 1

# Keepalived app server group 1 settings (asg_1 = app_server_group_1)
asg_1_keepalived_bind_interface:
asg_1_keepalived_vip : 193.3.3232
asg_1_keepalived_priority: 1

# Keepalived app server group 2 settings
asg_2_keepalived_bind_interface:
asg_2_keepalived_vip : 1003.3.3232
asg_2_keepalived_priority: 1

# Keepalived app server group 3 settings
asg_3_keepalived_bind_interface:
asg_3_keepalived_vip : 1553.3.3232
asg_3_keepalived_priority: 1
```

We might need to create separate variables for each keepalived server group

If we create more application server groups, then more variables will be added to this variable file

Each server group might also need its own virtualip and other keepalived settings