CFT Template – 3 NIC 2 vThunder HA, GLM PUBLIC VIP Backend AutoScale Test Cases

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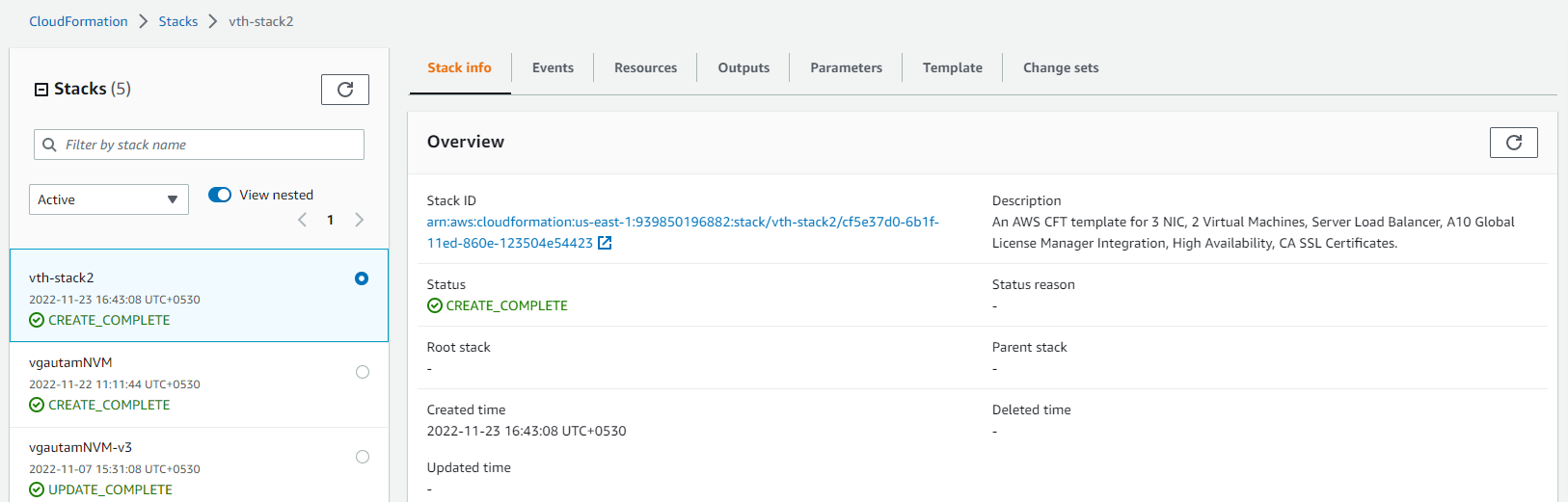
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# Resource Creation

* 1. Resource Stack
     1. Expected Outcome: 1 resource stack with 32 resources should get created.
     2. Actual Outcome:

1 resource stack (vth-auto-test) with 32 resources get created.



* 1. S3 Bucket
     1. Expected Outcome: 1 S3 Bucket should get created with name “vth-cft-backend-auto-bucket” and object should be there in it.
     2. Actual Outcome:

1 S3 Bucket gets created with name “vth-cft-backend-auto-bucket” and object is there in it.

Graphical user interface, text, application, email

Description automatically generated

* 1. Interfaces
     1. Expected Outcome: 6 interfaces (2 management, 4 data interfaces) should get created.
     2. Actual Outcome: 6 interfaces are created and attached to VMs.

Text

Description automatically generated with medium confidence

* 1. Subnets
     1. Expected Outcome: 3 subnets should get created.
     2. Actual Outcome: 3 subnets are created.

Graphical user interface, text, application

Description automatically generated

* 1. Virtual Network
     1. Expected Outcome: 1 virtual network should get created
     2. Actual Outcome: 1 virtual network is created name “vth-vpc”.

Graphical user interface, text, application

Description automatically generated

* 1. Public IP’s
     1. Expected Outcome: 3 public ip’s should get created.
     2. Actual Outcome:

3 public ip’s should are created

Graphical user interface, text, application

Description automatically generated

* 1. Security Group
     1. Expected Outcome: 2 Security group should get created.
     2. Actual Outcome: 2 Security group gets created

Graphical user interface, application, Teams

Description automatically generated

Graphical user interface, text, application

Description automatically generated

* 1. vThunder Instances
     1. Expected Outcome: 2 vThunder instances should get created having same configuration.
     2. Actual Outcome: 2 vThunder instances are created having same configuration.

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text

Description automatically generated

* 1. AutoScaling Group
     1. Expected Outcome:1 AutoScaling group should get created.
     2. Actual Outcome: 1 AutoScaling group is created
  2. EventBridge
     1. Expected Outcome:1 Eventbridge should get created.
     2. Actual Outcome: 1 Eventbridge get created.

Graphical user interface, text, application, email

Description automatically generated

* 1. Lambda Function
     1. Expected Outcome:1 lambda function should get created.
     2. Actual Outcome: 1 lambda function is created.

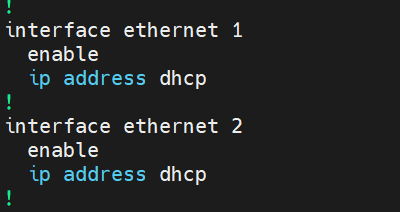
Graphical user interface, text, application

Description automatically generated

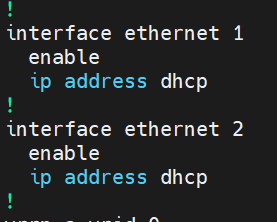
# 

# vThunder IP Configuration

1. vThunder-1



1. vThunder-2



# vThunder SLB Configuration

## vThunder-1

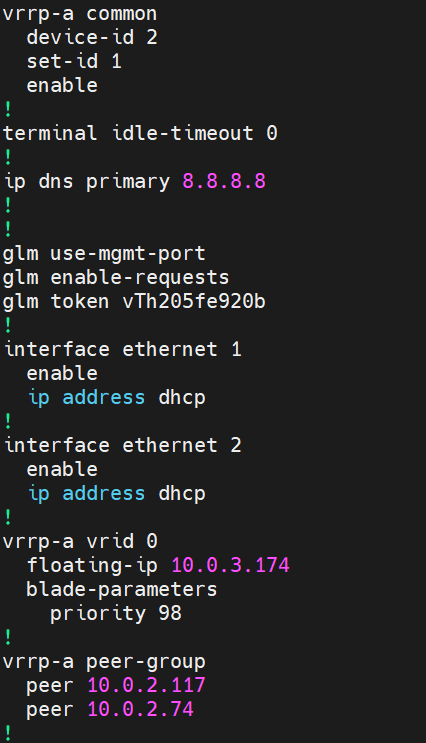
Text

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Text

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## vThunder-2

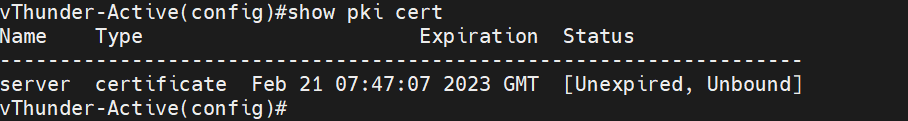


Text

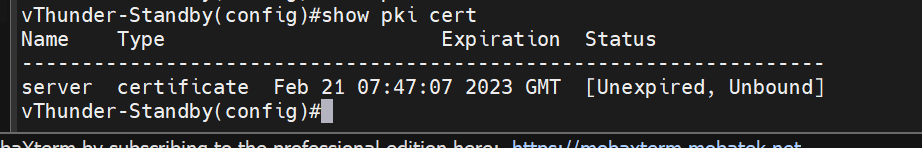
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# vThunder SSL Configuration

## vThunder-1



## vThunder-2



# vThunder HA Configuration(\* )

## vThunder-1

Text

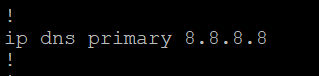
Description automatically generated

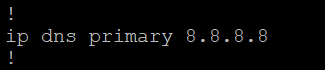
## vThunder-2

Text

Description automatically generated

# vThunder DNS and IP Route Configuration

1. vThunder-1
   * 1. 
     2. Text

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2. vThunder-2
   * 1. 
     2. Text

        Description automatically generated with medium confidence

# SLB Test Cases

## Case-1: Auto Scale VMSS (Addition of new servers)

1. Expected Outcome: Add new servers created on virtual machine scale set on both vThunders instances
2. Actual Outcome: New servers are added on vThunders SLB configuration.

Existing Configuration vThunder 1:

Text

Description automatically generated

After Autoscale vThunder 1:

Text

Description automatically generated

Existing configuration Vthunder 2:

Text

Description automatically generated

After Autoscaling Vthunder 2:

Text

Description automatically generated

## Case-2: Auto Scale VMSS ( Delete servers)

1. Expected Outcome: Deleted servers should be removed from SLB configuration of both vThunders.
2. Actual Outcome: Deleted servers are removed from SLB configuration of both vThunders.
3. Current instances on VMSS

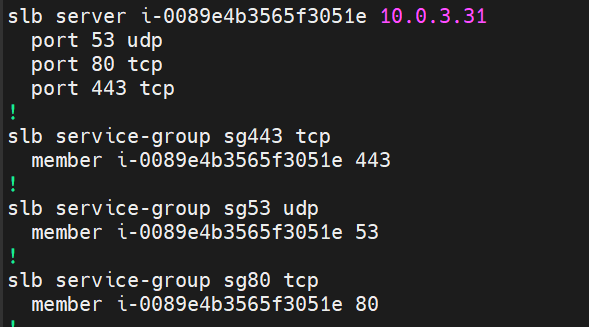
SLB configuration

1. After deleting 1 servers [vThunder 1]

Text

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1. After deleting 1 servers [vThunder 2]



# HA Test Cases

## Without failover (vThunder-1 is in active and vThunder-2 is in standby mode)

* + 1. Expected Outcome: Active vThunder (master) will act as SLB and second vthunder will be on standby mode.
    2. Actual Outcome: Activate vThunder (master) is acting as SLB and second vthunder is on standby mode.

vth-inst1 is in active mode (with FIP and VIP attached)

vth-inst2 is in standby mode (no FIP and VIP attached)

vThunder 1:

Graphical user interface, text, application

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vThunder2:

Graphical user interface, text

Description automatically generated

Curl command for client vm to VIP

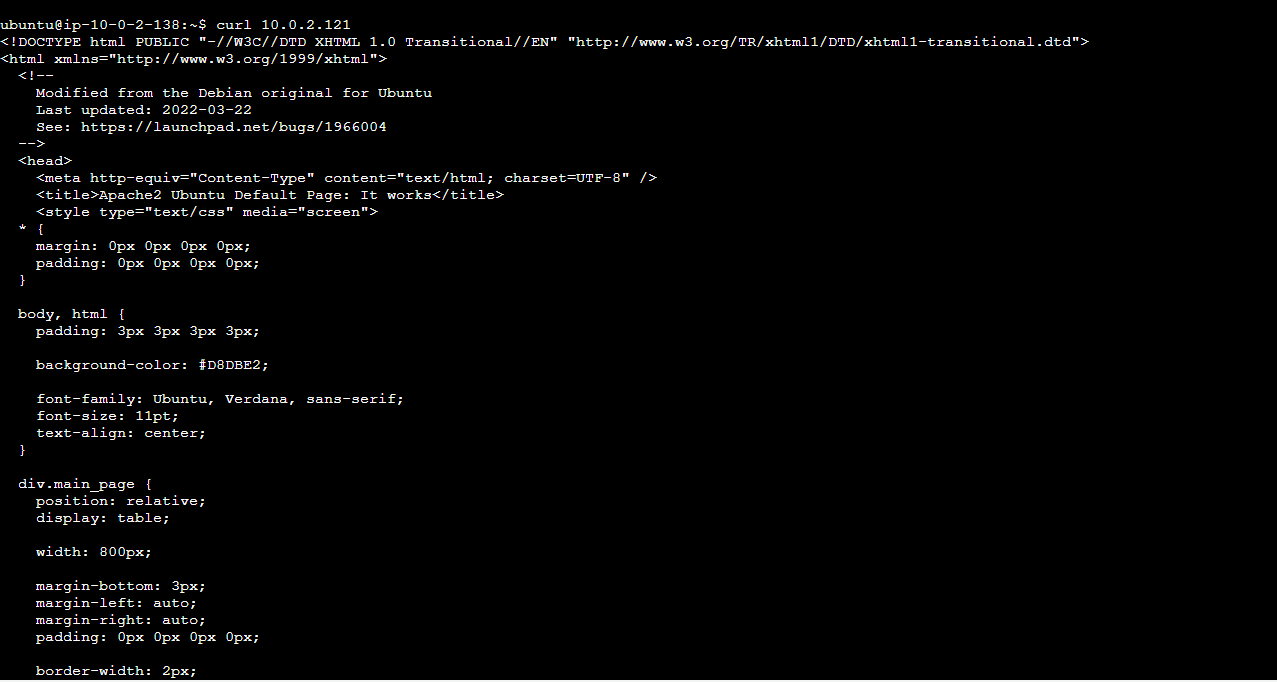
1)Expected Outcome: Apache server running on server vm should be accessible from client vm using VIP. VIP should be present as a secondary IP in client side interface of vThunder-1 and FIP should be present as a secondary IP in server side interface of vThunder-2.

2)Actual Outcome: Apache server running on server vm is accessible from client vm using VIP. VIP is present in client side interface and FIP is present in server side interface.

Curl command for client vm to Public IP

1)Expected Outcome: Apache server running on server vm should be accessible from client vm using Elastic IP address of Data NIC of vThunder-1

2)Actual Outcome: Apache server running on server vm is accessible from client vm using Elastic IP address of Data NIC of vThunder-1.



Text

Description automatically generated

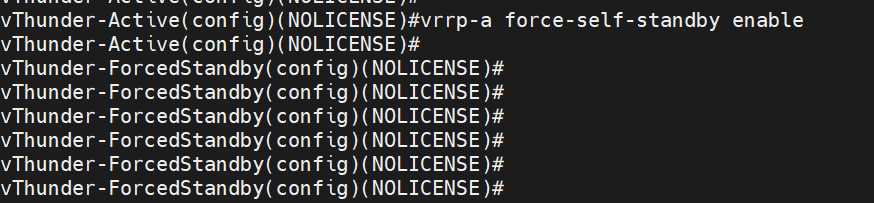
## vThunder-1 goes on standby mode

* + 1. Expected Outcome: vThunder-2 will become active and VIP and FIP attached to vThunder-1 will be attached to vthunder-2. Client vm should be able to access Apache server running on server vm using VIP.
    2. Actual Outcome: vThunder-2 is active. VIP and FIP attached to vThunder-1 are attached to vthunder-2. Client vm is able to curl Apache server using VIP.

VIP should switch from vthunder 1 to vthunder 2

FIP should switch from vthunder 1 to vthunder 2

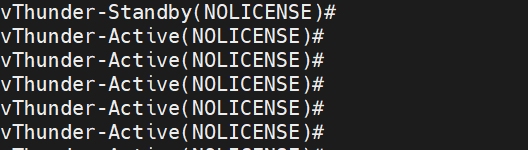
vThunder-1 state



Graphical user interface, text, application

Description automatically generated

vThunder-2 state



Graphical user interface, text, application, email

Description automatically generated

Traffic Test after we stop the active vThunder and then standby will be active:

Traffic Testing after VIP and FIP change from vThunder1 to vThunder2.

Text

Description automatically generated

Text

Description automatically generated