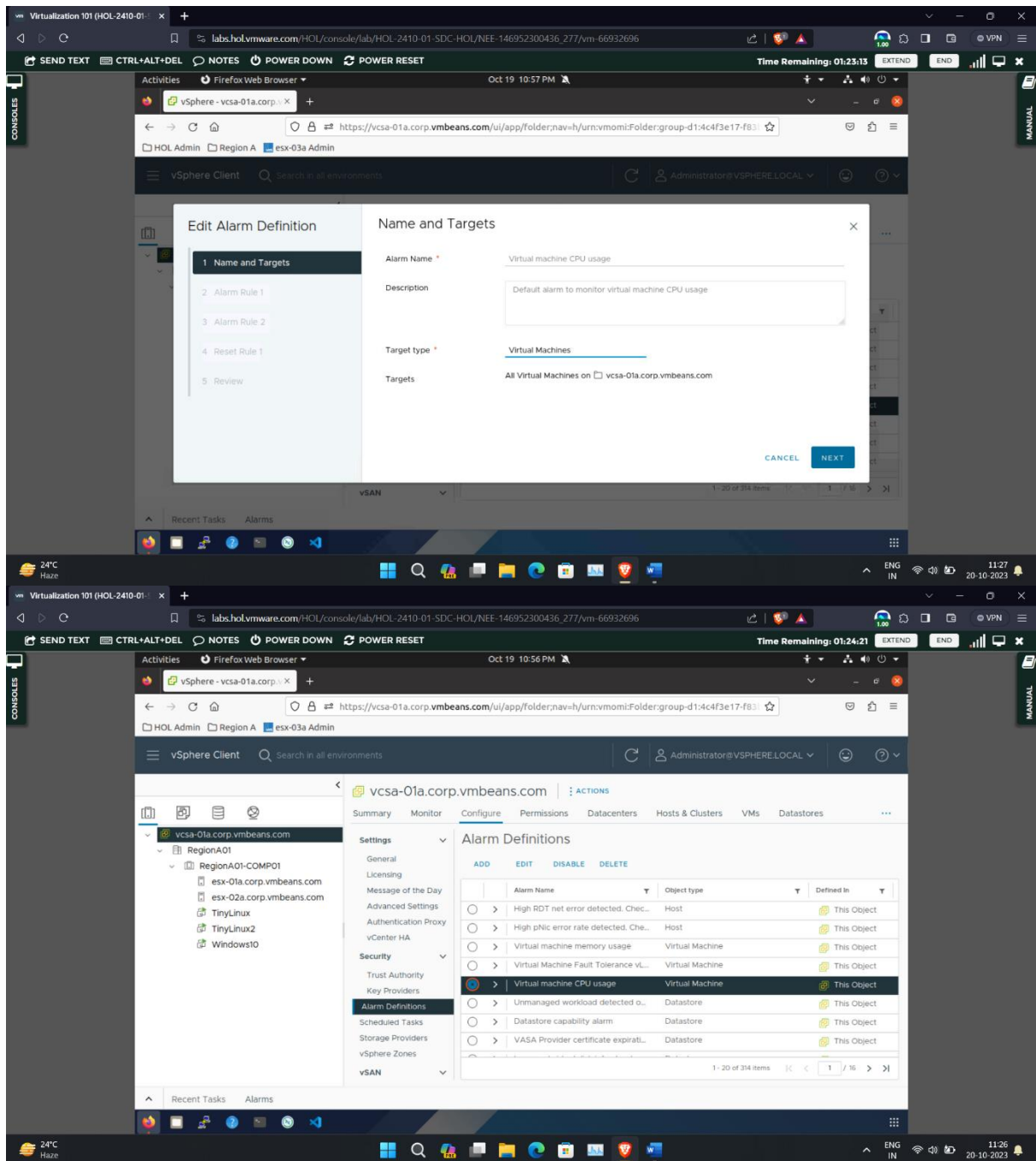Q1. What is Alarm? Perform the alarm when the VM CPU usage is above 90% for services?

Ans: Alaram is detection and notification system, which detect that the given threshold condition is breach or not , if condition is breach then it give a warning or notification to user.

Activities   Firefox Web Browser   Oct 19 10:57 PM

vSphere - vcsa-01a.corp...

https://vcsa-01a.corp.vmbeans.com/ui/app/folder;nav=h/urn:vmomi:Folder:group-d1:4c4f3e17-f83...

HOL Admin   Region A   esx-03a Admin

vSphere Client   Q Search in all environments   Administrator@VSPHERE.LOCAL

Edit Alarm Definition   **Name and Targets**   ✕

1 Name and Targets   Alarm Name *   Virtual machine CPU usage

2 Alarm Rule 1   Description   Default alarm to monitor virtual machine CPU usage

3 Alarm Rule 2

4 Reset Rule 1   Target type *   Virtual Machines

5 Review   Targets   All Virtual Machines on ☐ vcsa-01a.corp.vmbeans.com

                                                              CANCEL   NEXT

Recent Tasks   Alarms

24°C
Haze   ENG   11:27
                                                                                    IN   20-10-2023

Activities   Firefox Web Browser   Oct 19 10:56 PM

vSphere - vcsa-01a.corp...

https://vcsa-01a.corp.vmbeans.com/ui/app/folder;nav=h/urn:vmomi:Folder:group-d1:4c4f3e17-f83...

HOL Admin   Region A   esx-03a Admin

vSphere Client   Q Search in all environments   Administrator@VSPHERE.LOCAL

🖥 vcsa-01a.corp.vmbeans.com   ⋮ ACTIONS

vcsa-01a.corp.vmbeans.com   Summary Monitor Configure Permissions Datacenters Hosts & Clusters VMs Datastores ...
  RegionA01
    RegionA01-COMP01   Settings   **Alarm Definitions**
      esx-01a.corp.vmbeans.com   General
      esx-02a.corp.vmbeans.com   Licensing   ADD   EDIT   DISABLE   DELETE
      TinyLinux   Message of the Day
      TinyLinux2   Advanced Settings
      Windows10   Authentication Proxy

		Alarm Name ▼	Object type ▼	Defined In ▼
○	>	High RDT net error detected. Chec...	Host	This Object
○	>	High pNic error rate detected. Che...	Host	This Object
○	>	Virtual machine memory usage	Virtual Machine	This Object
○	>	Virtual Machine Fault Tolerance vL...	Virtual Machine	This Object
◉	>	Virtual machine CPU usage	Virtual Machine	This Object
○	>	Unmanaged workload detected o...	Datastore	This Object
○	>	Datastore capability alarm	Datastore	This Object
○	>	VASA Provider certificate expirati...	Datastore	This Object

                                vCenter HA

                                Security
                                  Trust Authority
                                  Key Providers
                                  Alarm Definitions
                                  Scheduled Tasks
                                  Storage Providers
                                  vSphere Zones

                                vSAN   1 - 20 of 314 items |< <   1 / 16   > >|

Recent Tasks   Alarms

24°C
Haze   ENG   11:26
                                                                                    IN   20-10-2023

Activities   Firefox Web Browser ▾   Oct 19 10:55 PM

vSphere - vcsa-01a.corp... ×   +

https://vcsa-01a.corp.vmbeans.com/ui/app/folder;nav=h/urn:vmomi:Folder:group-d1:4c4f3e17-f83...

HOL Admin   Region A   esx-03a Admin

vSphere Client   Search in all environments   Administrator@VSPHERE.LOCAL ▾

vcsa-01a.corp.vmbeans.com   ⋮ ACTIONS

Summary   Monitor   Configure   Permissions   Datacenters   Hosts & Clusters   VMs   Datastores   ⋯

Settings	vCenter Server Settings	ED
General	> Statistics	Estimated space required: 16.71 GB
Licensing	> Database	Max connections: 50
Message of the Day	> Runtime settings	vCenter Server name: vcsa-01a.corp.vmbeans.com
Advanced Settings	> User directory	Timeout: 60 second(s)
Authentication Proxy	> Mail	
vCenter HA	> SNMP receivers	
Security	Ports	HTTP: 80 HTTPS: 443
Trust Authority	Timeout settings	Normal: 30 Long: 120
Key Providers	Logging options	Log level: info
Alarm Definitions	SSL settings	vCenter Server requires verified SSL certificates
Scheduled Tasks		
Storage Providers		
vSphere Zones		
vSAN		

- vcsa-01a.corp.vmbeans.com
  - RegionA01
    - RegionA01-COMP01
      - esx-01a.corp.vmbeans.com
      - esx-02a.corp.vmbeans.com
      - TinyLinux
      - TinyLinux2
      - Windows10

Recent Tasks   Alarms

24°C   Haze   ENG IN   11:26 20-10-2023

Activities   Firefox Web Browser ▾   Oct 19 11:05 PM

vSphere - vcsa-01a.corp... ×   +

https://vcsa-01a.corp.vmbeans.com/ui/app/folder;nav=h/urn:vmomi:Folder:group-d1:4c4f3e17-f83...

HOL Admin   Region A   esx-03a Admin

vSphere Client   Search in all environments   Administrator@VSPHERE.LOCAL ▾

vcsa-01a.corp.vmbeans.com   ⋮ ACTIONS

Summary   Monitor   Configure   Permissions   Datacenters   Hosts & Clusters   VMs   Datastores   Networks   Linked vCenter Server Systems   ⋯

Settings   >
Security   ∨
    Trust Authority
    Key Providers
    Alarm Definitions
    Scheduled Tasks
    Storage Providers
    vSphere Zones
vSAN   ∨
    Update
    Internet Connectivity

Alarm Definitions

ADD   EDIT   DISABLE   DELETE

	Alarm Name	Object type	Defined In	Enabled	Last modified
∨	Virtual machine CPU usage	Virtual Machine	This Object	Enabled	10/19/2023, 11:03:18 PM
	Name	Virtual machine CPU usage			
	Description	Default alarm to monitor virtual machine CPU usage			
	Targets	All virtual machines in vCenter server vcsa-01a.corp.vmbeans.com			
	Alarm Rules	IF VM CPU Usage is above 95% for 5 minutes THEN trigger the alarm as ⓘ critical			
		OR IF VM CPU Usage is above 90% for 5 minutes THEN trigger the alarm as ⚠ warning			

1 - 20 of 314 items |< <   1   / 16   > >|

Recent Tasks   Alarms

24°C   Haze   ENG IN   11:35 20-10-2023

Q2. IF that host machine will get damaged to preserve the VM what you will do? Perform the step for same.
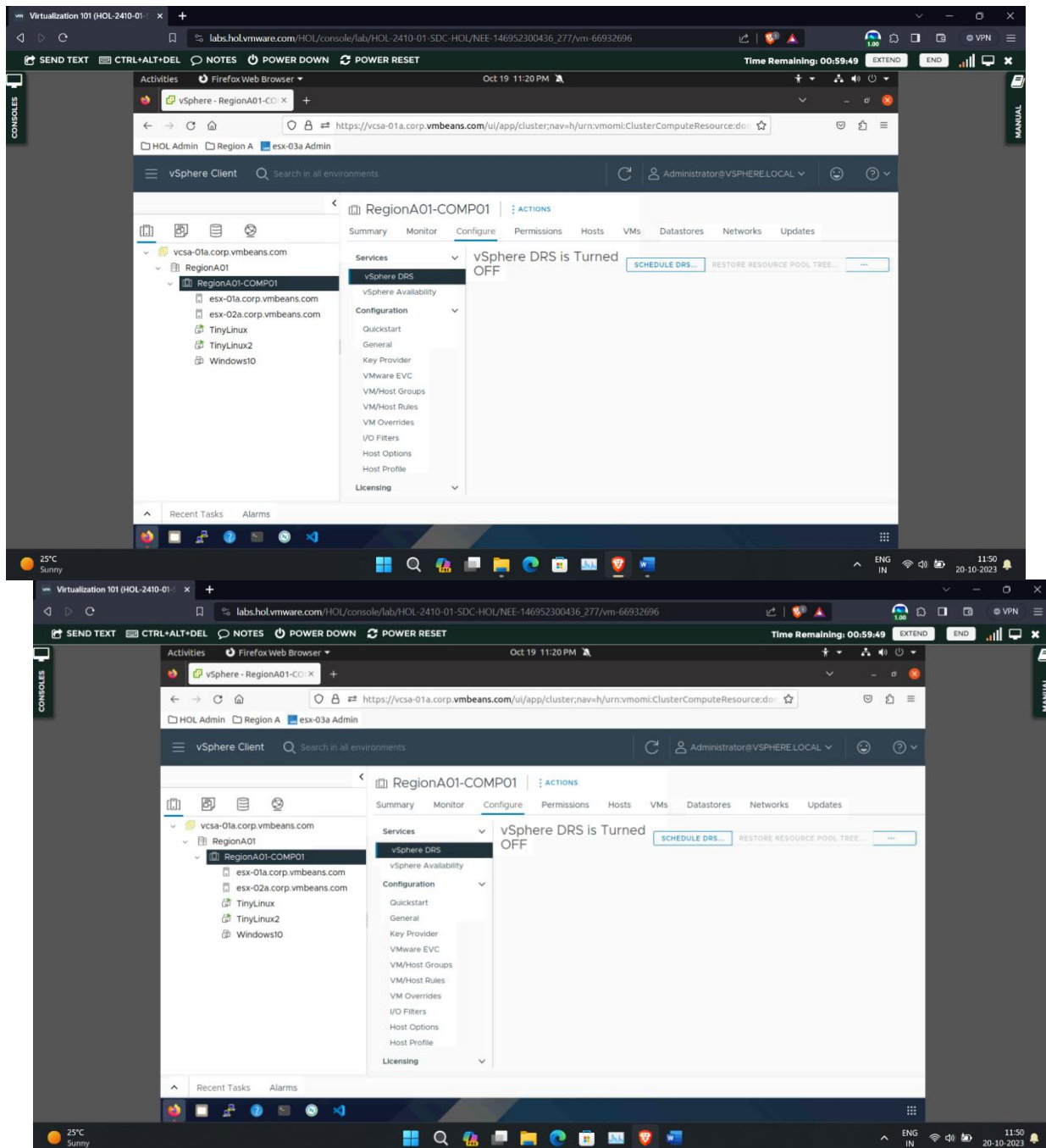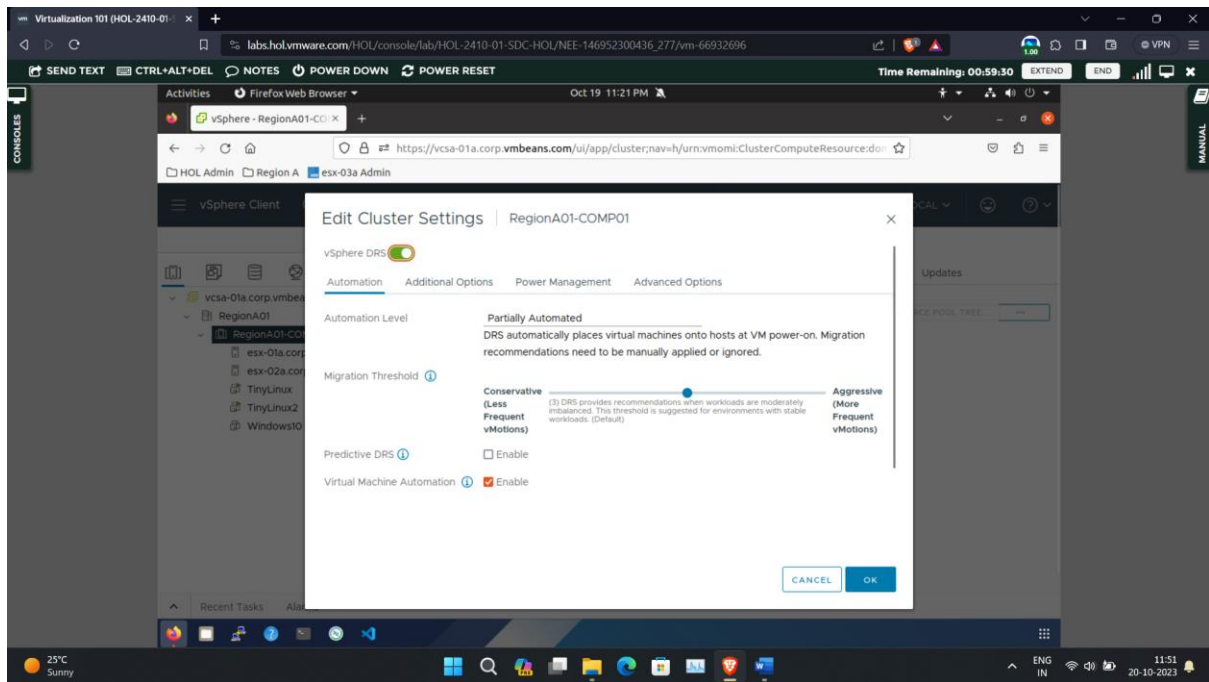
Q3. Perform HA, Snapshot of any Virtual Machine?

Activities   Firefox Web Browser ▾   Oct 19 11:26 PM

vSphere - RegionA01-CO ×   +

← → C ⌂   https://vcsa-01a.corp.vmbeans.com/ui/app/cluster;nav=h/urn:vmomi:ClusterComputeResource:do

HOL Admin   Region A   esx-03a Admin

vSphere Client

Edit Cluster Settings | RegionA01-COMP01   ×

vSphere HA 🟢

Failures and responses   Admission Control   Heartbeat Datastores   Advanced Options

You can configure how vSphere HA responds to the failure conditions on this cluster. The following failure conditions
are supported: host, host isolation, VM component protection (datastore with PDL and APD), VM and application.

Enable Host Monitoring ⓘ 🟢

> Host Failure Response	Restart VMs ⌄
> Response for Host Isolation	Disabled ⌄
> Datastore with PDL	Power off and restart VMs ⌄
> Datastore with APD	Power off and restart VMs - Conservative restart policy ⌄
> VM Monitoring	Disabled ⌄

                                                                    CANCEL   OK

Recent Tasks

AUS - PAK
In 5 hours

ENG
IN

11:56
20-10-2023

Activities   Firefox Web Browser ▾   Oct 19 11:25 PM

vSphere - RegionA01-CO ×   +

← → C ⌂   https://vcsa-01a.corp.vmbeans.com/ui/app/cluster;nav=h/urn:vmomi:ClusterComputeResource:do

HOL Admin   Region A   esx-03a Admin

vSphere Client   Q Search in all environments   C   Administrator@VSPHERE.LOCAL ⌄

vcsa-01a.corp.vmbeans.com
  RegionA01
    RegionA01-COMP01
      esx-01a.corp.vmbeans.com
      esx-02a.corp.vmbeans.com
      TinyLinux
      TinyLinux2
      Windows10

RegionA01-COMP01   ⋮ ACTIONS

Summary   Monitor   Configure   Permissions   Hosts   VMs   Datastores   Networks   Updates

Services   ⌄   **vSphere HA is Turned OFF**   EDIT...
  vSphere DRS   Runtime information for vSphere HA is reported under vSphere HA Monitoring
  vSphere Availability   **Proactive HA is Turned OFF**   EDIT...
Configuration   ⌄   Failure conditions and responses
  Quickstart
  General | Failure | Response | Details |
  Key Provider | --- | --- | --- |
  VMware EVC | Host failure | ⓘ Disabl... | vSphere HA disabled. VMs are not restarted in the |
  VM/Host Groups | Proactive HA | ⓘ Disabl... | Proactive HA is not enabled. |
  VM/Host Rules | Host Isolation | ⓘ Disabl... | vSphere HA disabled. VMs are not restarted in the |
  VM Overrides | Datastore with Permanent Device Lo... | ⓘ Disabl... | vSphere HA disabled. VMs are not restarted in the |
  I/O Filters | Datastore with All Paths Down | ⓘ Disabl... | vSphere HA disabled. VMs are not restarted in the |
  Host Options | Guest not heartbeating | ⓘ Disabl... | vSphere HA disabled. VMs are not restarted in the |
  Host Profile
Licensing   ⌄   6 items

                                  | Admission Control | Expand for details |

Recent Tasks   Alarms

AUS - PAK
In 5 hours

ENG
IN

11:55
20-10-2023