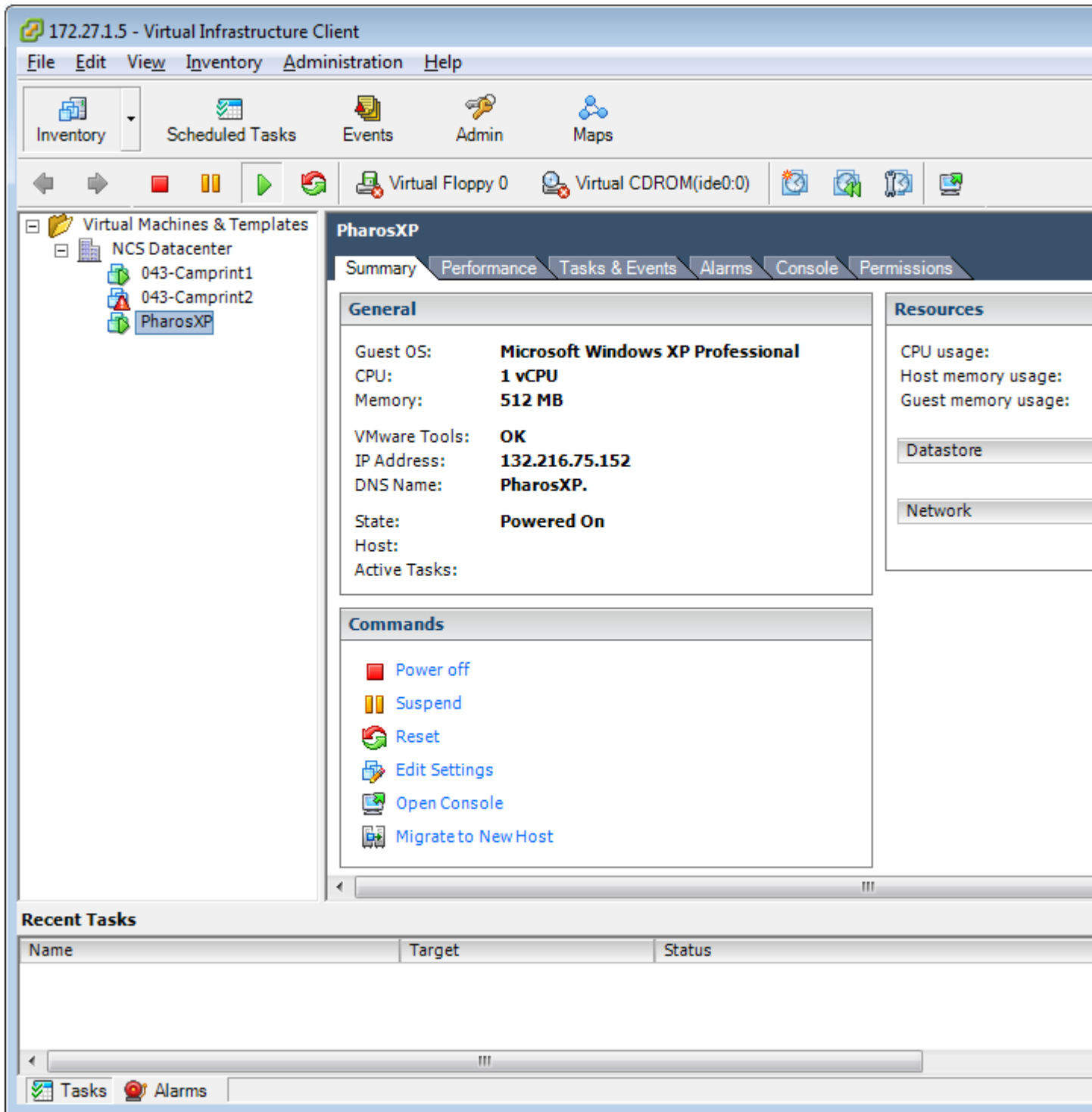


## Getting Started with Virtual Infrastructure Client (VIC)

After having downloaded and installed the **Virtual infrastructure client (VIC)**, start the client. As a result of permissions set on each individual VM, you should only see the VMs you administer.

The client window is made up of two main sections. The left hand pane which displays Datacenters, Hosts, VMs, Networks and Datastores. The right hand pane which displays Server Summary, Performance, Tasks & Events, etc... Many of the common tasks performed on a regular basis can be executed from multiple sections of the client. For example, if you want to start a VM you can do so by either **1- right clicking on the VM and choosing Power On**, **2- Choosing the VM and clicking on the Power On Button on the menu Bar** **3- Choosing the VM and clicking on the Power On button in the Commands section of the right hand pane**

Other common tasks which can be performed in some or all three sections include **Power Off, Suspend, Reset, Edit Settings** and **Open console**.



### Using Virtual Floppy and CD/DVD

A virtual Floppy or CD/DVD allows you to use your personal computer/laptop's floppy and CD/DVD drive. Simply click on either the **Virtual Floppy** or **Virtual CDROM** button located on the menu bar. A list

of all available devices will appear (i.e. If you have multiple CD drives, you will be given a choice of which drive to connect to)

## **Virtual infrastructure Client Tabs**

In the right hand pane (Main window) you will see six tabs. Each tab provides function for Administrators to work with their VM(s). Below is a brief description of each tab.

### **Summary**

The Summary tab will display General information, Resource usage and allows you to perform common Commands on your VM. The Notes section is reserved for Host Administrators (NCS) to add such data as

contact information

The screenshot displays the 'Virtual Infrastructure Client' interface for a host named '172.27.1.5'. The main window shows the configuration and status of a virtual machine named 'PharosXP'. The interface includes a menu bar (File, Edit, View, Inventory, Administration, Help), a toolbar with icons for Inventory, Scheduled Tasks, Events, Admin, and Maps, and a secondary toolbar with navigation and device icons (Virtual Floppy 0, Virtual CDROM(ide0:0), etc.).

The left sidebar shows a tree view of the infrastructure:

- Hosts & Clusters
  - NCS Datacenter
    - 043-Camprint1
    - 043-Camprint2
    - PharosXP

The main content area is titled 'PharosXP' and has several tabs: Summary (selected), Performance, Tasks & Events, Alarms, Console, and Permissions.

**General** information:

- Guest OS: **Microsoft Windows XP Professional**
- CPU: **1 vCPU**
- Memory: **512 MB**
- VMware Tools: **OK**
- IP Address: **132.216.75.152**
- DNS Name: **PharosXP.**
- State: **Powered On**
- Host:
- Active Tasks:

**Resources** section:

- CPU usage:
- Host memory usage:
- Guest memory usage:
- Datastore
- Network

**Commands** section:

- Power off
- Suspend
- Reset
- Edit Settings
- Open Console

**Notes** section:

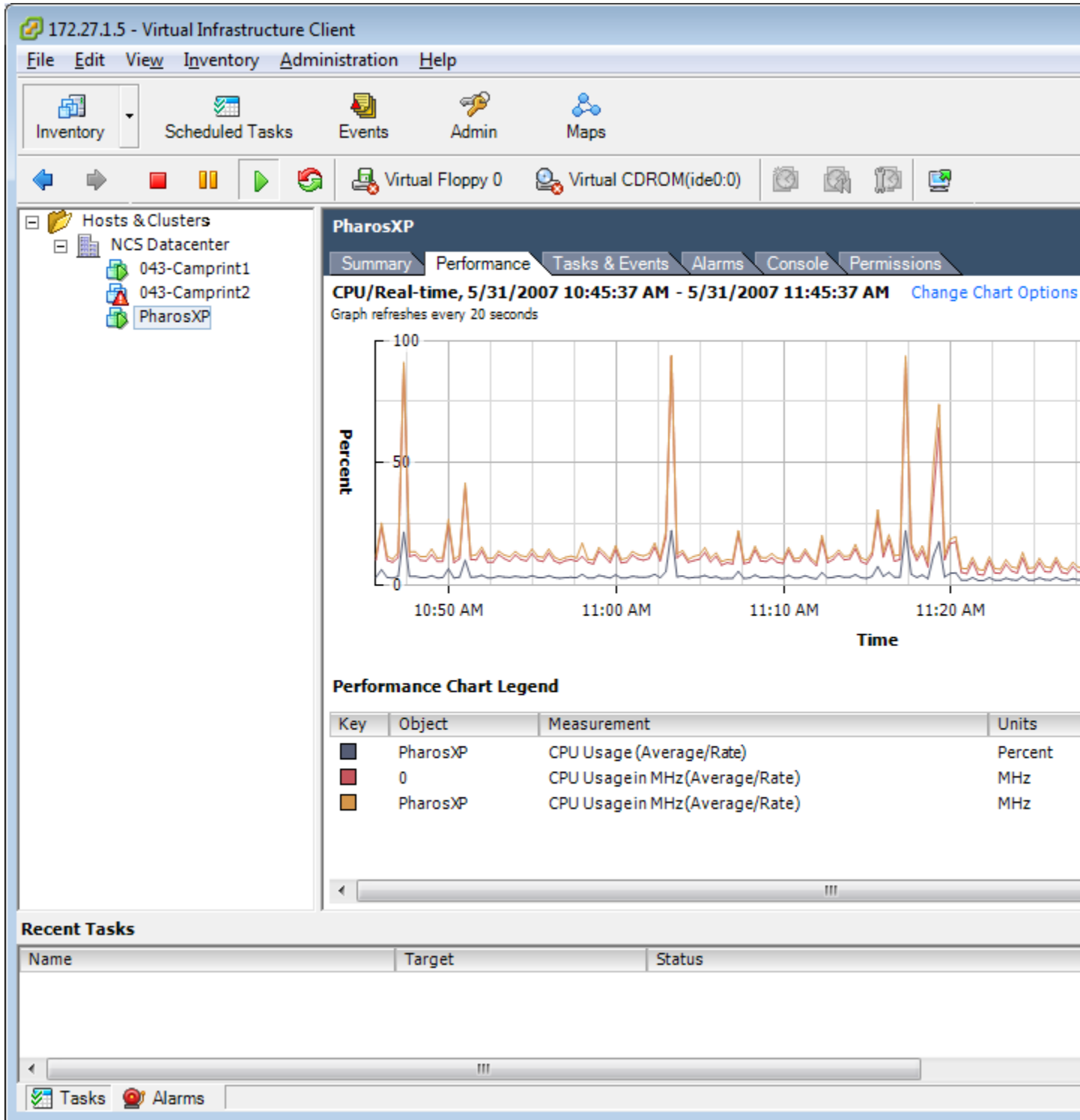
**Recent Tasks** table:

Name	Target	Status
------	--------	--------

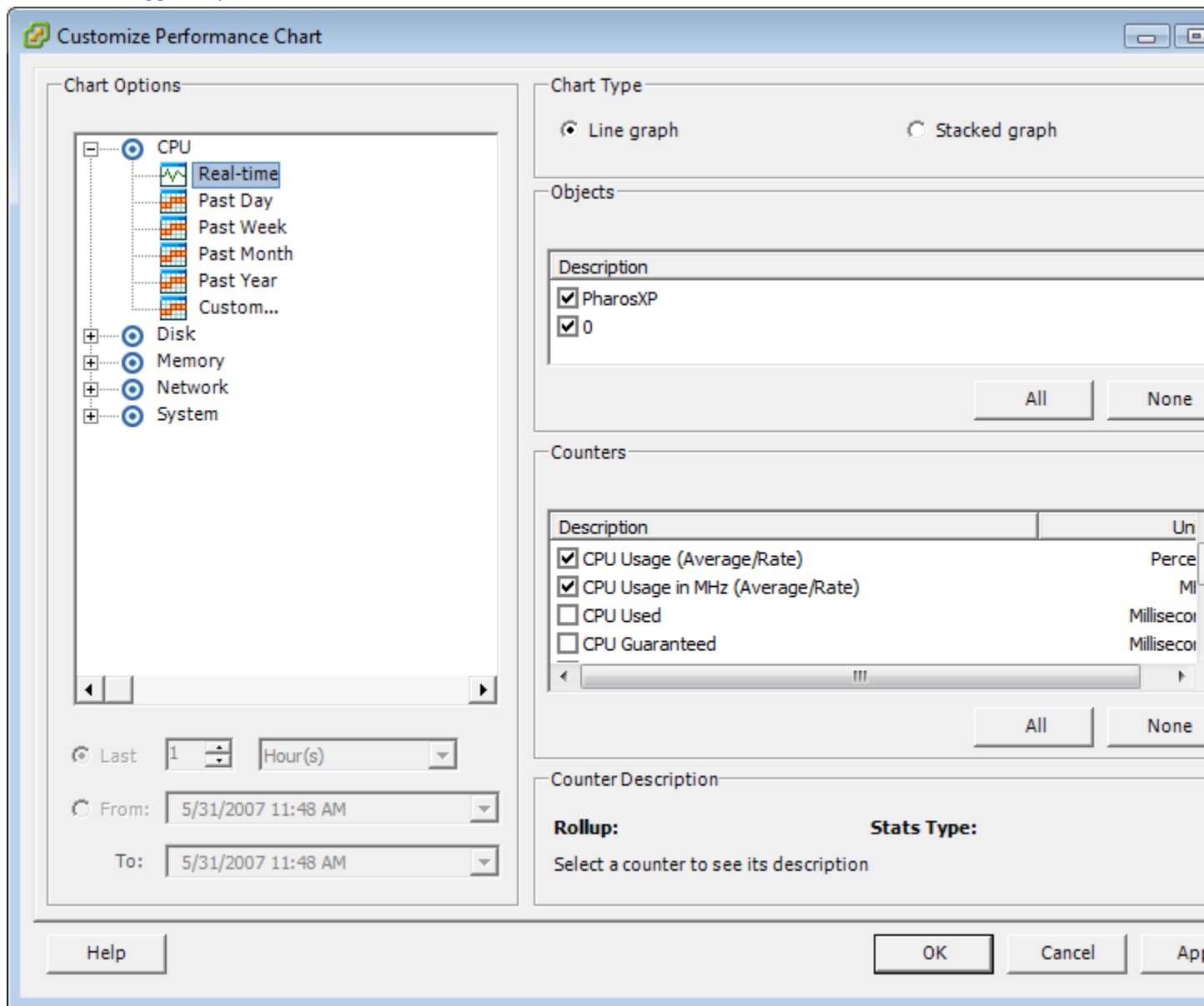
The bottom of the interface shows a 'Tasks' and 'Alarms' section with a scroll bar.

## Performance

Allows a VM administrator to get a detailed look at the performance of resources for a particular Virtual Machine.

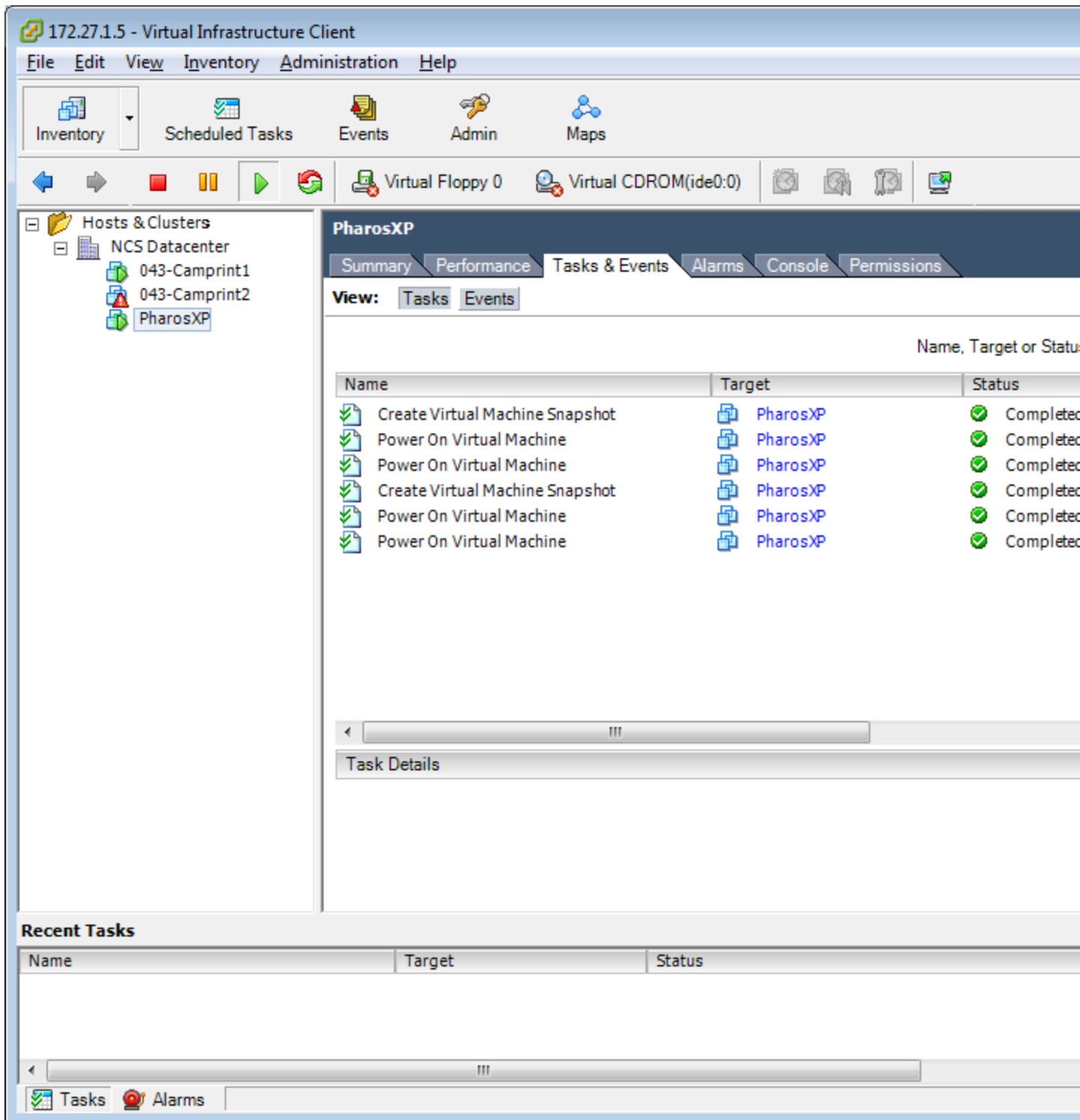


Performance details can be changed by clicking on the **Change Chart Options...** link. The following window will appear. Administrators can then choose which resources to monitor and whether they want real time or logged reports.



### Task & Events

Any task which is performed by a VM or Host Administrator is recorded in the Task & Events section (i.e. Create Snapshot, Power On VM, Power Off VM etc...)



Similarly all events which are generated by the system or administrators are recorded in the Task &

Events section (Permission removal, Alarms, Memory change, CPU Change etc...)

172.27.1.5 - Virtual Infrastructure Client

File Edit View Inventory Administration Help

Inventory Scheduled Tasks Events Admin Maps

Virtual Floppy 0 Virtual CDROM(ide0:0)

Hosts & Clusters  
NCS Datacenter  
043-Camprint1  
043-Camprint2  
PharosXP

PharosXP

Summary Performance Tasks & Events Alarms Console Permissions

View: Tasks Events

Description, Type or Target

Description

- User logged event: Remote console on PharosXP connected.
- Alarm Virtual Machine Connection State changed from Red to Green
- Virtual machine on vmhost1-1.ncs.mcgill.ca is powered on
- Virtual Machine is starting
- Migration from vmhost1-1.ncs.mcgill.ca to vmhost1-1.ncs.mcgill.ca: Reverting to snapshot wou
- Task: Power On Virtual Machine
- Host is connected
- Host is connected
- Alarm Virtual Machine Connection State sent e-mail to joe.caruso@mcgill.ca;vito.giordano@mcg
- Alarm Virtual Machine Memory Usage changed from Green to Gray
- Alarm Virtual Machine CPU Usage changed from Green to Gray
- Alarm Virtual Machine Network Usage changed from Green to Gray
- Alarm Virtual Machine Connection State on Hosts & Clusters triggered an action

Event Details

Recent Tasks

Name	Target	Status
------	--------	--------

Tasks Alarms



## Alarms

The Alarms section is made up of two sub sections. The first is Triggered Alarms which displays thresholds which have been reached.

The screenshot shows the Virtual Infrastructure Client interface. The title bar reads "172.27.1.5 - Virtual Infrastructure Client". The menu bar includes "File", "Edit", "View", "Inventory", "Administration", and "Help". The toolbar contains icons for "Inventory", "Scheduled Tasks", "Events", "Admin", and "Maps". Below the toolbar are navigation arrows and icons for "Virtual Floppy 0" and "Virtual CDROM(ide0:0)".

The left pane shows a tree view under "Hosts & Clusters" with "NCS Datacenter" expanded, containing "043-Camprint1", "043-Camprint2", and "PharosXP".

The main pane is titled "PharosXP" and has tabs for "Summary", "Performance", "Tasks & Events", "Alarms", "Console", and "Permissions". The "Alarms" tab is active, and the "View" dropdown is set to "Triggered Alarms".

Object	Status	Name	Triggered
--------	--------	------	-----------

At the bottom, there is a "Recent Tasks" section with a table:

Name	Target	Status
------	--------	--------

The bottom status bar shows "Tasks" and "Alarms" icons.

The second sub section is Alarm definitions. This is where the Host Administrators (NCS) sets the threshold for triggered alarms.

The screenshot shows the Virtual Infrastructure Client interface. The title bar reads "172.27.1.5 - Virtual Infrastructure Client". The menu bar includes "File", "Edit", "View", "Inventory", "Administration", and "Help". The toolbar contains icons for "Inventory", "Scheduled Tasks", "Events", "Admin", and "Maps". Below the toolbar is a status bar with navigation arrows and icons for "Virtual Floppy 0" and "Virtual CDROM(ide0:0)".

The left sidebar shows a tree view under "Hosts & Clusters":

- Hosts & Clusters
  - NCS Datacenter
    - 043-Camprint1
    - 043-Camprint2
    - PharosXP

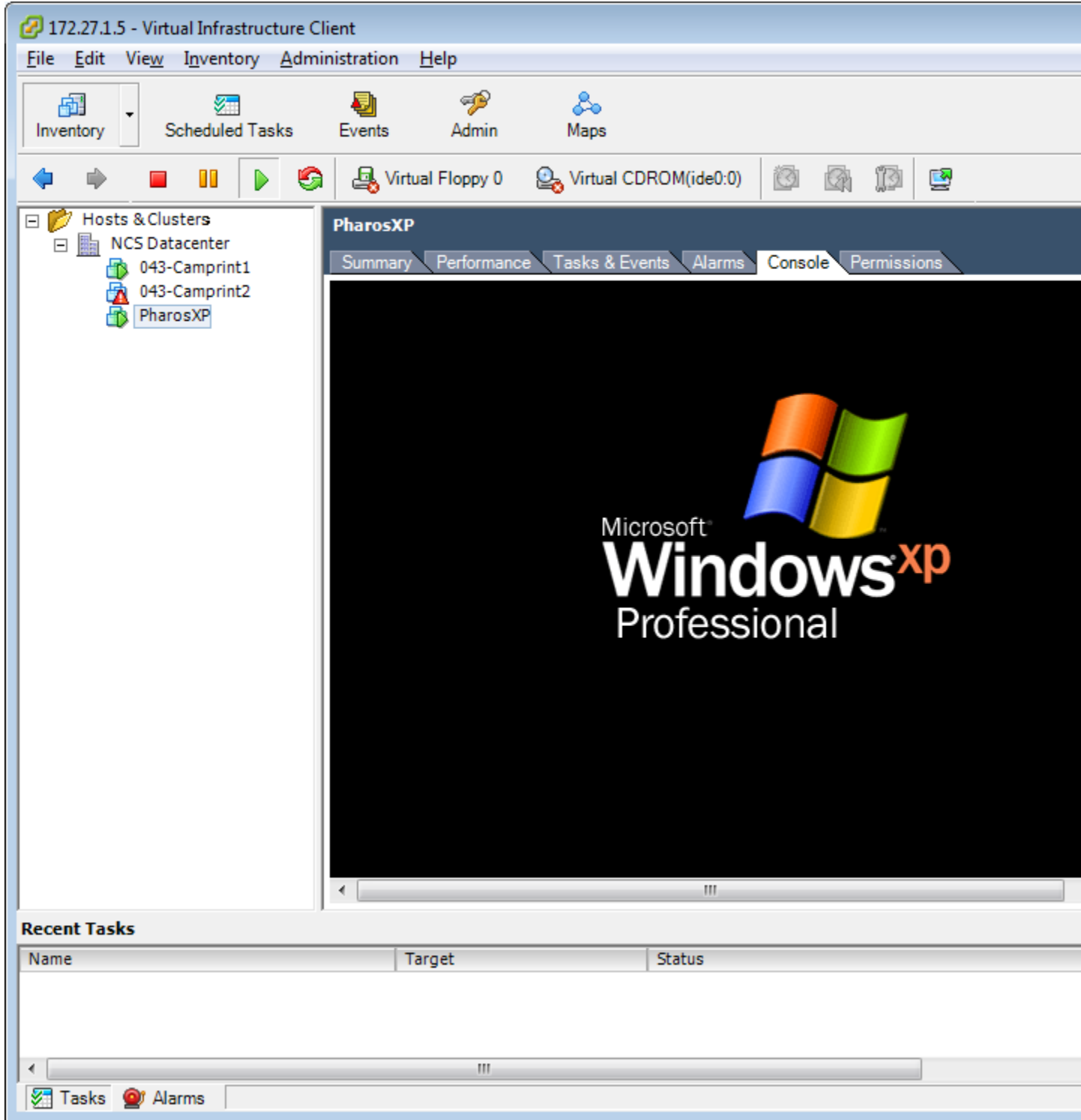
The main pane displays the "PharosXP" configuration page. The "Alarms" tab is selected, and the "Definitions" view is active. A table lists the alarm definitions:

Name	Defined In	Description
Virtual Machine Conn...	Hosts & Clusters	Default alarm to monitor Virtual ma...
Virtual Machine Disk ...	Hosts & Clusters	Default alarm to monitor Virtual ma...
Virtual Machine Netw...	Hosts & Clusters	Default alarm to monitor Virtual ma...
Virtual Machine CPU ...	Hosts & Clusters	Default alarm to monitor Virtual ma...
Virtual Machine Mem...	Hosts & Clusters	Default alarm to monitor Virtual ma...

At the bottom, the "Recent Tasks" section is visible, showing a table with columns "Name", "Target", and "Status". The status bar at the very bottom includes "Tasks" and "Alarms" icons.

## Console

The Console is your virtual Monitor/LCD Screen if you will. It can be access either by clicking on the **Launch Virtual Machine console** button located at the end of the menu bar or by selecting the **Console Tab** in the right hand pane.



## Permissions

Finally the Permissions Tab displays who has permissions and what role of access they have to the individual VM. **Note:** The Host Administrators group is not displayed as it is granted access at the

Datacenter level and all permissions are propagated from there.

The screenshot shows the Virtual Infrastructure Client interface. The title bar reads "172.27.1.5 - Virtual Infrastructure Client". The menu bar includes "File", "Edit", "View", "Inventory", "Administration", and "Help". The toolbar contains icons for "Inventory", "Scheduled Tasks", "Events", "Admin", and "Maps". Below the toolbar are navigation arrows and icons for "Virtual Floppy 0" and "Virtual CDROM(ide0:0)".

The left sidebar shows a tree view under "Hosts & Clusters" with "NCS Datacenter" expanded, containing "043-Camprint1", "043-Camprint2", and "PharosXP".

The main pane displays the "PharosXP" virtual machine with tabs for "Summary", "Performance", "Tasks & Events", "Alarms", "Console", and "Permissions". The "Permissions" tab is active, showing a table with the following data:

User/Group	Role
CAMPUS\jcarus1	Virtual MachineUser

At the bottom, there is a "Recent Tasks" section with a table with columns "Name", "Target", and "Status". The table is currently empty. A taskbar at the very bottom shows "Tasks" and "Alarms" icons.