

User Interface Design Specification

Kimchi

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Functional Requirements

This user interface design document describes additions and changes to the Kimchi console to support virtualization management. This document focuses on updates to the layout, visual design and interaction of the existing console elements. These elements include: reorganizing page content, adding search/filtering function, sorting function, touch gestures, page responsiveness, and mobile responsiveness. Additional items and interactions, including new features and functions, will be specified in follow-on specification documents.

The purpose of this feature is to provide users with a consistent and intuitive interface that allows them to navigate to necessary tasks and see relevant information.

Guidelines

Widgets

This design references Bootstrap visual design and interactions. Any departure from this widget set will be specified as part of this design document, the design blueprints or in the prototype. If not specified, it is assumed and expected that Bootstrap specifications and interactions will be followed.

Typography and Common Action Labels

We will make an effort to include font specification in our designs; as a general rule of thumb, Kimchi follows the following patterns:

- | | |
|---------------------------|----------------------------|
| • Header 1 bold: | Helvetica Neue Light 27px |
| • Header 1 light: | Helvetica Neue Bold 27px |
| • Header 2 bold: | Helvetica Neue Bold 22px |
| • Header 3 bold: | Helvetica Neue Bold 17px |
| • Header 3 medium: | Helvetica Neue Medium 17px |
| • Header 3 light: | Helvetica Neue Light 17px |
| • Header 4 medium: | Helvetica Neue Medium 14px |

Banner / Header

- | | |
|-------------------------------------|---|
| • Content + unselected tabs content | Header 3 medium #FFFFFF (white) |
| • Selected tabs content | Header 3 bold #FFFFFF (white) |
| • Tabs counter content | Header 3 bold #222222 (dark grey)
Header 4 medium #FFFFFF (white)
Header 4 medium #222222 (dark grey) |

Panels

- | | |
|-----------------------------|--------------------------------------|
| • Panel Titles | Header 1 bold #444444 (grey) |
| • General / Enabled content | Header 3 medium #222222 (dark grey) |
| • Disabled content | Header 3 medium #999999 (light grey) |
| • Links – normal state | |
| • Links – hover state | |
| • Links – visited state | |
| • Links – disabled state | |

- Sub-Content and Table-Column content (e.g. %, GB) Header 3 light #222222 (dark grey)
- Table headers Header 3 light #222222 (dark grey)
- Button content Header 3 medium #FFFFFF (white)
- Disabled Button content Header 3 medium #444444 (grey)
- Field content Header 3 medium #999999 (light grey)
- Disabled Field content Header 3 medium #222222 (white)
- Context Menu content Header 3 medium #999999 (light grey)
- Disabled Context menu content Header 3 medium #FFFFFF (white)
- Host Utilization Rates Header 3 medium #999999 (light grey)
- Guest Utilization Rates Header 1 light #222222 (dark grey)
- Inline messages for gathering data or no data available Header 2 bold #222222 (dark grey)
- Header 3 medium #444444 (grey)

Banner and unselected tabs content - Helvetica Neue Medium 17px #FFFFFF (white)

Selected tabs content - Helvetica Neue Bold 17px #FFFFFF (white)

Tabs Counter content - Helvetica Neue Medium 14px #FFFFFF (white)

Titles - Helvetica Neue Light 27px #444444

Enabled content - Helvetica Neue Medium 17px #222222

Disabled content - Helvetica Neue Medium 17px #999999

Subcontent and table-column values (e.g. %, GB) - Helvetica Neue Light 17px #222222

Table headers - Helvetica Neue Light 17px #222222

Button content - Helvetica Neue Medium 17px #FFFFFF (white)

Button content - Helvetica Neue Medium 17px #444444 (grey)

Context Menu content - Helvetica Neue Medium 17px #FFFFFF (white)

Context Menu content - Helvetica Neue Medium 17px #c3182a (red)

Host Utilization Rates - Helvetica Neue Bold 27px #222222

Guest Utilization Rates - Helvetica Neue Bold 22px #222222

Inline messages for gathering data or no data available - Helvetica Neue Medium 17px #444444

1 Overall Layout

1.1 Design approach

The overall console layout is made up of five different areas:

1. **Banner** – Provides product name and access to peer hosts, user info, and help topics actions such as log out.
2. **Tabs** – This section provides a space for the host names and tabs, including a digit counter for the number of resources displayed in each tab
3. **Panel Level Actions** – Provides a space for panel level actions such as add a resource as well as future actions such as Print and Export
4. **Filter and Sorting** – Optional area for filter field, sort button and toggle button for gallery or table view.
5. **Content area** – Displays main content area

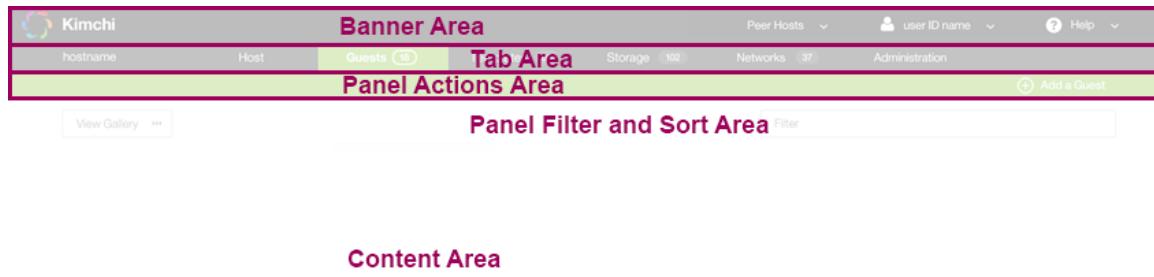


Figure 1.1-1; Example of basic console layout

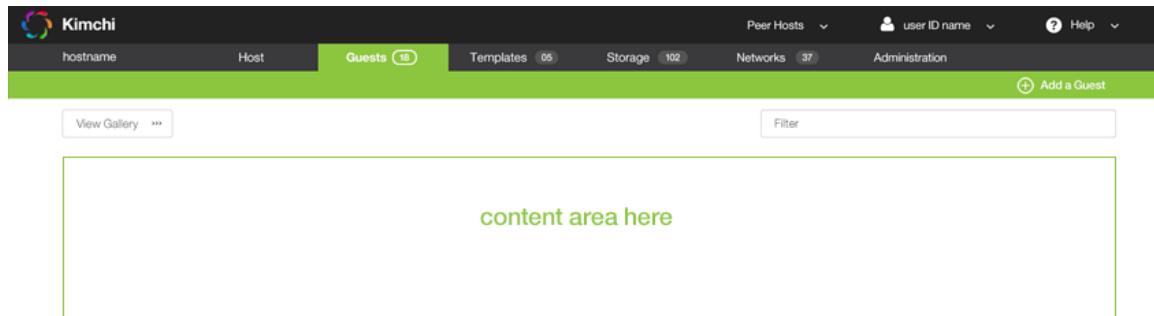


Figure 1.1-2: High fidelity example of basic layout with doc pod expanded

Application logo and name stick to the left side of the banner, and do not move when the screen is resized. It has no actions.

Peer Host drop down stick to the right side of the banner when the screen is resized. When an option is clicked, a new browser tab is opened with the new peer host login.

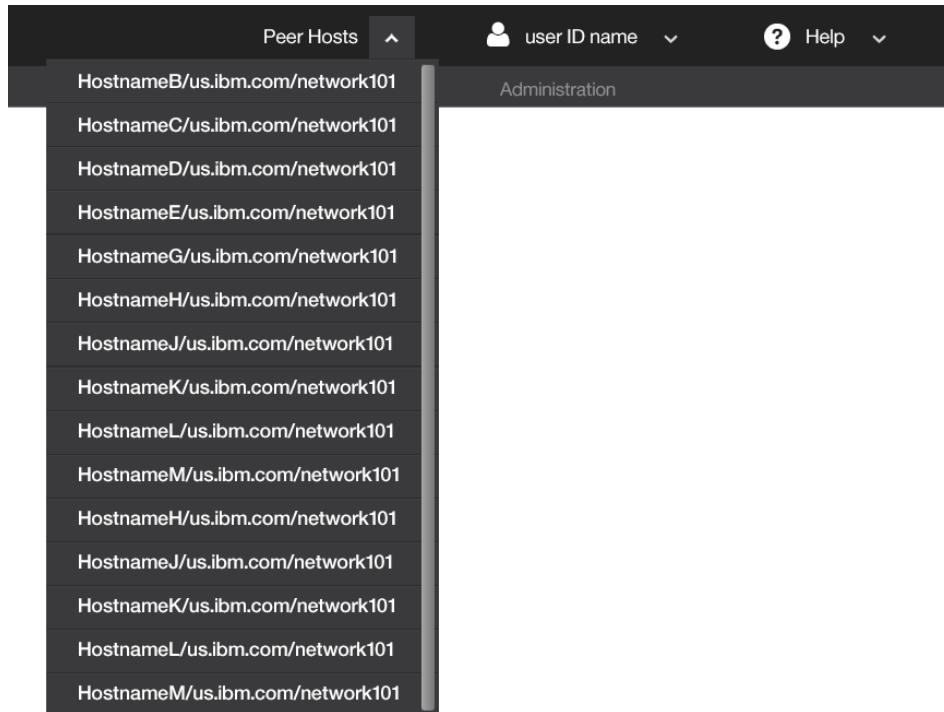


Figure 1.1-3: Example of Peer Host context menu

[user ID] drop down sticks to the right side of the banner when the screen is resized. Single-clicking the [user id name] and chevron causes a context menu to display with the Log Off action.

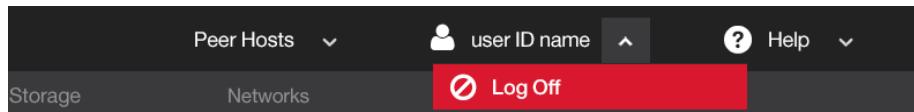


Figure 1.1-4: Example of User ID context menu

Help drop down sticks to the right side of the banner when the screen is resized. Single-clicking the Help and chevron causes a context menu to display listing all help topics available for the application. (Right now, each topic is for a tab/panel in Kimchi).

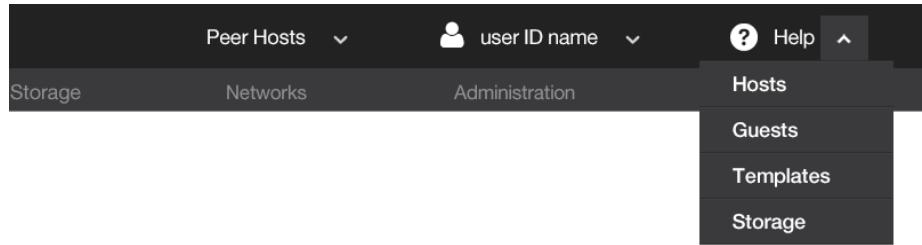


Figure 1.1-5: Example of Help context menu

1.2 Icons

Icon	hex value	size	Font	Character Name	Behavior
	--	42px	--	kimchi.png	--
	#FFFFFF	26px	Font Awesome	user	--
	#FFFFFF	26px	Font Awesome	help-circled	--
	#CCCCCC	13px	Font Awesome	down-open	- Single-click (or single tap) causes context menu to open
	#AAAAAA	13px	Font Awesome	up-open	- Single-click (or single tap) causes context menu to close
	#FFFFFF	24px	Font Awesome	block	--
	#FFFFFF	24px	Entypo	Plus-circled	--

2 Log In Panel

2.1 Design approach

There is no Tab color, nor does the Panel Actions Area display. All tabs in the Tabs Area are disabled.

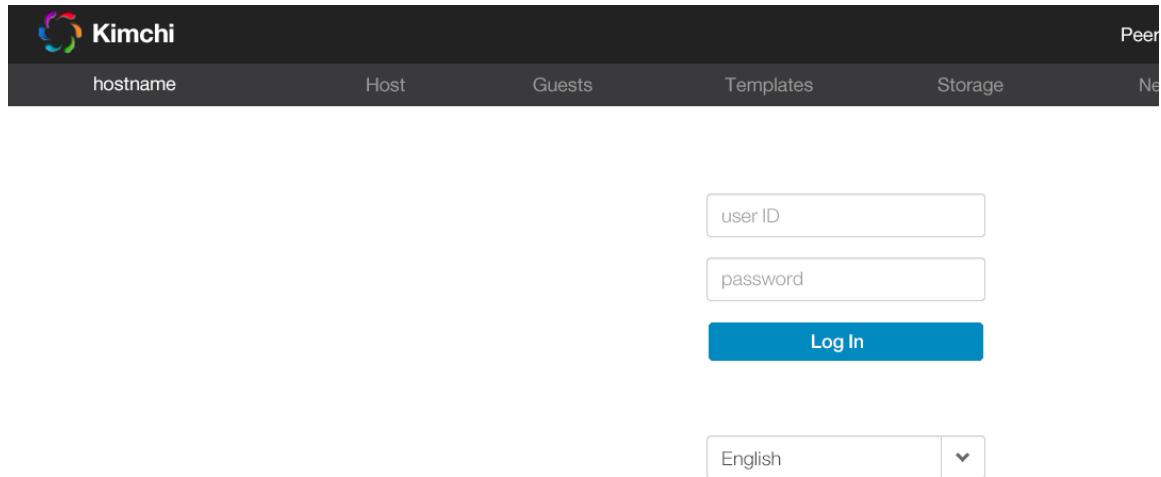
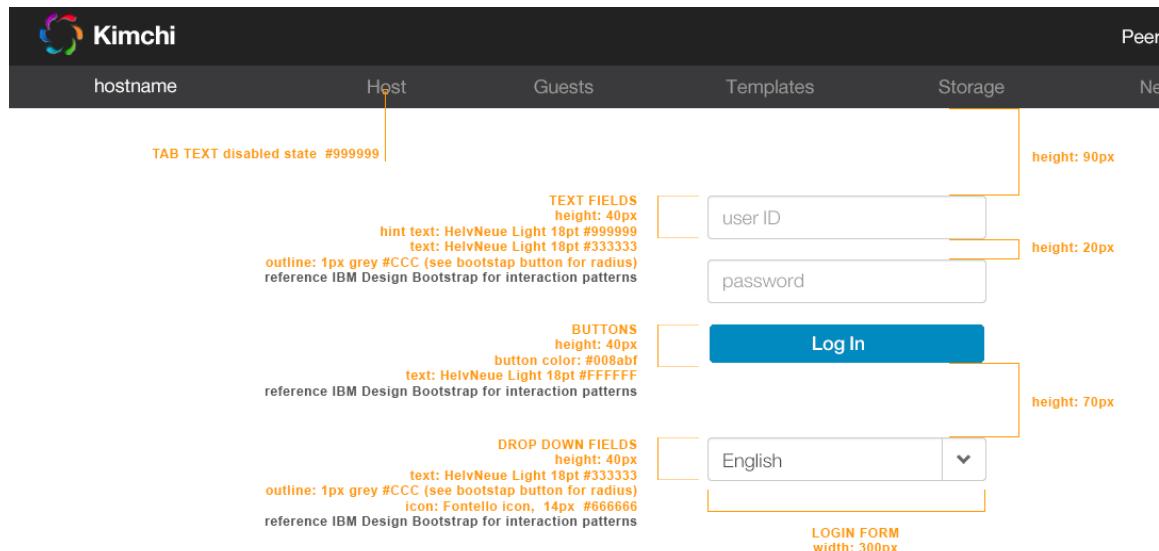


Figure 2.1-1: High fidelity example of basic layout with doc pod expanded

2.2 Icons

Icon	size	Font	Character Name	Behavior
▼	13px	Font Awesome	down-open	- Single-click (or single tap) causes context menu to open

2.3 Blueprints



3 Hosts

3.1 Design approach

The overall host panel is made up of four different areas:

1. **Performance** – graphical and textual representation of each capacity: core processors, memory, storage I/O, network I/O
2. **Basic Information** – listing of general properties for the system
3. **Repositories** – table listing of active and inactive repositories that belong to the system
4. **Debug Report** – table listing of debug reports created by the user
5. **Software Updates** – table listing of system firmware

Tab color is blue, and Panel Level Actions include Restart Host and host Shut Down.

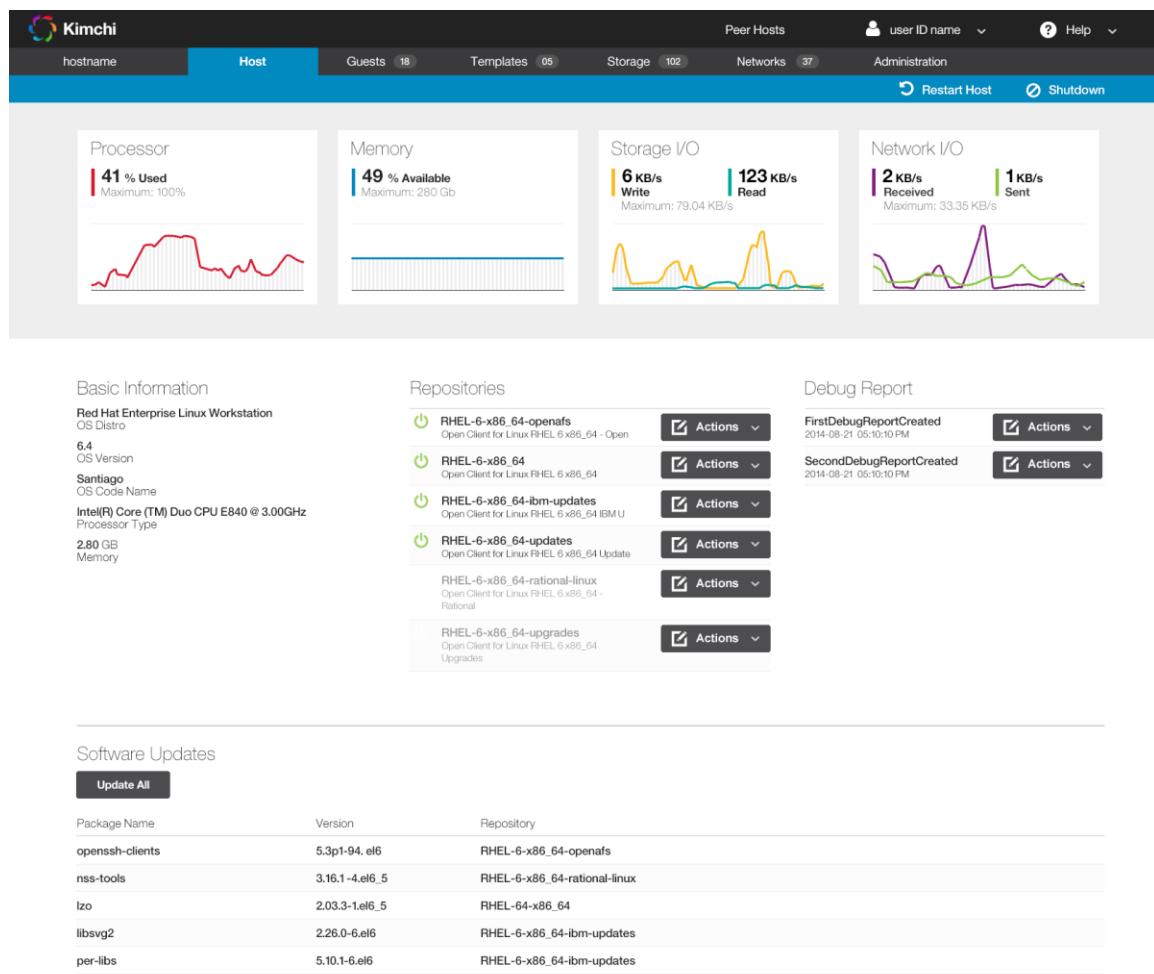


Figure 3.1-1: High fidelity example of basic Host panel layout

Host Capacity Metrics ...

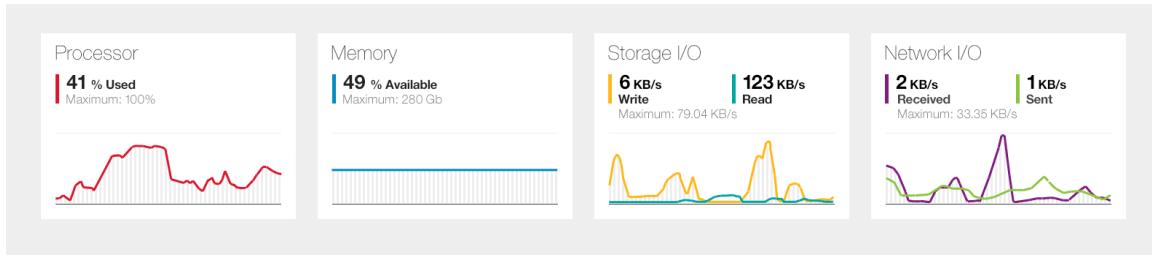


Figure 3.1-2: Example of real-time host capacity metrics in both textual and graphical format

Basic Information ...

Basic Information	Repositories	Debug Report
<p>Red Hat Enterprise Linux Workstation OS Distro 6.4 OS Version Santiago OS Code Name Intel(R) Core (TM) Duo CPU E840 @ 3.00GHz Processor Type 2.80 GB Memory</p>	<p>RHEL-6-x86_64-openafs Open Client for Linux RHEL 6 x86_64 - Open Actions</p> <p>RHEL-6-x86_64 Open Client for Linux RHEL 6 x86_64 Actions</p> <p>RHEL-6-x86_64-ibm-updates Open Client for Linux RHEL 6 x86_64 IBM U Actions</p> <p>RHEL-6-x86_64-updates Open Client for Linux RHEL 6 x86_64 Update Actions</p> <p>RHEL-6-x86_64-rational-linux Open Client for Linux RHEL 6 x86_64 - Rational Actions</p> <p>RHEL-6-x86_64-upgrades Open Client for Linux RHEL 6 x86_64 Upgrades Actions</p>	<p>FirstDebugReportCreated 2014-08-21 05:10:10 PM Actions</p> <p>SecondDebugReportCreated 2014-08-21 05:10:10 PM Actions</p>

Figure 3.1-3: Example of basic information showing attributes stacked with the value above label

Repositories ...

Basic Information	Repositories	Debug Report
<p>Red Hat Enterprise Linux Workstation OS Distro 6.4 OS Version Santiago OS Code Name Intel(R) Core (TM) Duo CPU E840 @ 3.00GHz Processor Type 2.80 GB Memory</p>	<p>RHEL-6-x86_64-openafs Open Client for Linux RHEL 6 x86_64 - Open Actions</p> <p>RHEL-6-x86_64 Open Client for Linux RHEL 6 x86_64 Actions</p> <p>RHEL-6-x86_64-ibm-updates Open Client for Linux RHEL 6 x86_64 IBM U Actions</p> <p>RHEL-6-x86_64-updates Open Client for Linux RHEL 6 x86_64 Update Actions</p> <p>RHEL-6-x86_64-rational-linux Open Client for Linux RHEL 6 x86_64 - Rational Actions</p> <p>RHEL-6-x86_64-upgrades Open Client for Linux RHEL 6 x86_64 Upgrades Actions</p>	<p>FirstDebugReportCreated 2014-08-21 05:10:10 PM Actions</p> <p>SecondDebugReportCreated 2014-08-21 05:10:10 PM Actions</p>

Figure 3.1-4: Example of repositories showing attributes stacked (rather in table columns) with the repository name above the description on separate lines of text. Text should wrap to the next line rather than truncate.

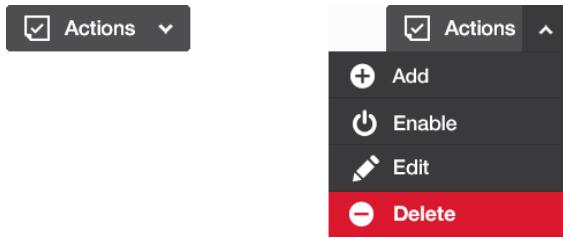


Figure 3.1-5: Example of Repository actions context menu

Debug Report ...

Basic Information	Repositories	Debug Report
Red Hat Enterprise Linux Workstation OS Distro 6.4 OS Version Santiago OS Code Name Intel(R) Core (TM) Duo CPU E840 @ 3.00GHz Processor Type 2.80 GB Memory	Repositories RHEL-6-x86_64-openafs RHEL-6-x86_64-ibm-updates RHEL-6-x86_64-updates RHEL-6-x86_64-rational-linux RHEL-6-x86_64-upgrades	Debug Report FirstDebugReportCreated 2014-08-21 05:10:10 PM SecondDebugReportCreated 2014-08-21 05:10:10 PM

Figure 3.1-6: Example of debug report showing attributes stacked (rather in table columns) with the debug report name above the date/time on separate lines of text. Text should wrap to the next line rather than truncate.

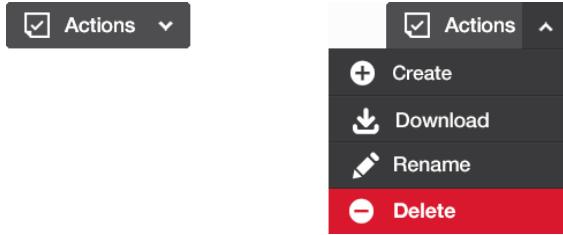


Figure 3.1-7: Example of Debug Reports actions context menu

Software Updates...

Software Updates		
<button>Update All</button>		
Package Name	Version	Repository
openssh-clients	5.3p1-94.el6	RHEL-6-x86_64-openssh
nss-tools	3.16.1-4.el6_5	RHEL-6-x86_64-rational-linux
lzo	2.03.3-1.el6_5	RHEL-6-x86_64
libsvg2	2.26.0-6.el6	RHEL-6-x86_64-ibm-updates
perl-libs	5.10.1-6.el6	RHEL-6-x86_64-ibm-updates

Figure 3.1-8: Example of Software Updates table

General ...

RHEL-6-x86_64-openssh Open Client for Linux RHEL 6 x86_64 - Open	Actions ▾	Select state has a grey background color for the row
RHEL-6-x86_64 Open Client for Linux RHEL 6 x86_64	Actions ▾	Normal state has no underline or background color
RHEL-6-x86_64-ibm-updates Open Client for Linux RHEL 6 x86_64 IBM U	Actions ▾	Hover state causes an underline to appear for all text

Figure 3.1-9: Example of hover and select table rows

3.2 Host Tasks

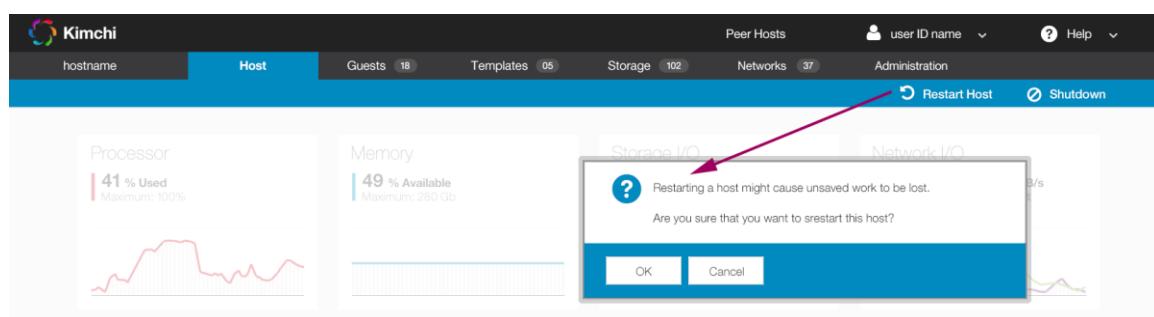
The following Administration panel tasks do not have a task window, message window or alert message associate with them:

- Banner > User ID > Logoff
- Repositories > Enable
- Debug Report > Download

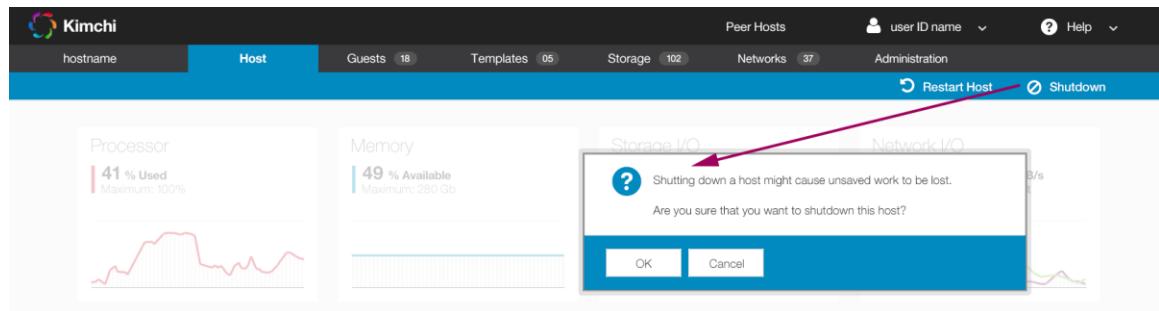
The following Administration panel tasks were not able to be enabled and will need to be completed as part of the design:

- Debug Report > Rename

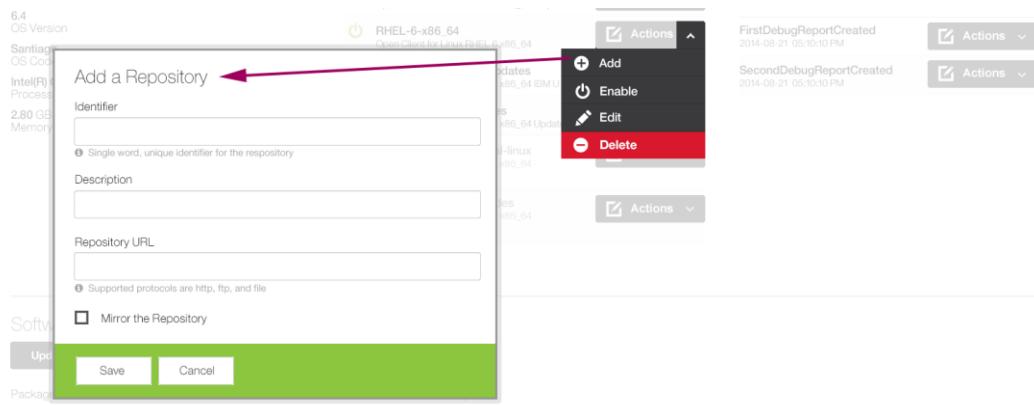
Restart Host ...



Shutdown ...



Repositories > Add ...



Repositories > Edit...

The screenshot shows the 'Edit a Repository' dialog box. It includes fields for Identifier (mcp-devel), Description (MCP Devel Packages), Repository URL (http://mcpkjhub1.austin.ibm.com/repos/pkvm2_1_1-build/latest/ppc64/), Mirror List URL, GPG Key (file:///etc/pki/rpm-gpg/RPM-GPG-KEY-ibm_powerkvm-2.1.1), and GPG Check (No). A green bar at the bottom contains 'Save' and 'Cancel' buttons. To the right is a table showing repository details like OS Version (RHEL-6-x86_64), Status (Open Client for Linux RHEL-6 x86_64), and Actions (Add, Enable, Edit, Delete).

Repositories > Delete ...

A confirmation dialog box asks 'Are you sure that you want to delete this repository?' with 'OK' and 'Cancel' buttons. A red arrow points from the text 'Are you sure that you want to delete this repository?' to the 'OK' button. To the right is a table showing repository details like OS Version (RHEL-6-x86_64), Status (Open Client for Linux RHEL-6 x86_64), and Actions (Add, Enable, Edit, Delete).

Debug Report > Create ...

After the report action is submitted, the window disappears and a new row is added to the table with a progress indicator showing the action is working in the background.

The screenshot shows the 'Create a New Debug Report' dialog box. It has a field for Report Name and a green bar at the bottom with 'Generate' and 'Cancel' buttons. To the right is a table showing repository details like OS Version (RHEL-6-x86_64-ibm-updates), Status (Open Client for Linux RHEL-6 x86_64-ibm-updates), and Actions (Create, Download, Rename, Delete).

Basic Information

- OS Distro: Red Hat Enterprise Linux Workstation
- OS Version: 6.4
- OS Code Name: Santiago
- Processor Type: Intel(R) Core (TM) Duo CPU E840 @ 3.00GHz
- Memory: 2.80 GB

Repositories

- RHEL-6-x86_64-openafs
- RHEL-6-x86_64
- RHEL-6-x86_64-ibm-updates
- RHEL-6-x86_64-updates

Debug Report

- NewDebugReportCreated
- FirstDebugReportCreated
- SecondDebugReportCreated

Debug Report > Delete ...

OS Code Name

- Processor Type: Intel(R) Core (TM) Duo CPU E840 @ 3.00GHz
- Memory: 2.80 GB

Repositories

- RHEL-6-x86_64-ibm-updates
- RHEL-6-x86_64-rational-linux

Debug Report

- SecondDebugReportCreated

Actions

- Create
- Download
- Rename
- Delete

Confirmation Dialog:

Deleting a debug report causes all data associated with the report to be deleted permanently, and it cannot be recovered.

Are you sure that you want to delete this debug report?

Buttons: OK, Cancel

Software Updates > Update All ...

When Updates is clicked, an inline window appears below the button (above the table) displaying the events that are occurring in real-time while the updates are progressing.

Software Updates

Update All

Updates Progress

```
--> Running transaction check
----> Package curl.ppc64 0.7.29.0-17.1.pkvm2_1.1.2 will be updated
----> Package curl.ppc64 0.7.29.0-23.1.pkvm2_1.1.1 will be updated
----> Package ed.ppc64 0.1.8-1.pkvm1_1.1.1 will be updated
----> Package ed.ppc64 0.1.8.1-1.pkvm1_1.1.2 will be updated
```

Package Name	Version	Repository
openssh-clients	5.3p1-94.el6	RHEL-6-x86_64-openafs
nss-tools	3.16.1-4.el6_5	RHEL-6-x86_64-rational-linux
lib	2.11.3-1.el6_5	RHEL-6-x86_64-rational-linux

The Updates Progress window can be collapsed to display only the title and expand icon.

Software Updates

Update All

Updates Progress

Package Name	Version	Repository
openssh-clients	5.3p1-94.el6	RHEL-6-x86_64-openafs
nss-tools	3.16.1-4.el6_5	RHEL-6-x86_64-rational-linux
lib	2.11.3-1.el6_5	RHEL-6-x86_64-rational-linux

After all updates are complete, an inline message appears with the state of the update and the time that it finished. The user must manually close this message.

Software Updates			
Update All			
All updates were successfully completed: 07:16:2014 08:00:00 AM			
Package Name	Version	Architecture	Repository
openssh-clients	5.3p1-94.el6	x86_64	RHEL-6-x86_64-openafs
nss-tools	3.16.1-4.el6_5	x86_64	RHEL-6-x86_64-rational-linux
lzo	9.0.3.3-1.el6_5	x86_64	RHFI_x86_64-vR6_R4

Gathering Content for any section of this Panel ...

The screenshot shows the Kimchi interface with several data gathering status indicators:

- Processor:** Gathering Data
- Memory:** Gathering Data
- Storage I/O:** Gathering Data
- Network I/O:** Gathering Data
- Basic Information:** Gathering Data
- Repositories:** Gathering Data
- Debug Report:** Gathering Data
- Software Updates:** Gathering Data

3.3 Icons

Icon	hex value	size	Font	Character Name	Behavior
↻	#FFFFFF	24px	Font Awesome	ccw	Restart host
🚫	#FFFFFF	24px	Font Awesome	block	Shutdown host
💡	#FFFFFF	24px	Font Awesome	off	Enabled (state) / Enable (action)
☒	#777777	20px	Elusive	edit-alt	Actions
▼	#CCCCCC	13px	Font Awesome	down-open	- Single-click (or single tap) causes context menu to open
▲	#AAAAAA	13px	Font Awesome	up-open	- Single-click (or single tap) causes context menu to close
➕	#FFFFFF	25px	Entypo	plus-circled	Add / Create
✎	#FFFFFF	23px	Elusive	pencil	Edit
➖	#FFFFFF	25px	Entypo	minus-circled	Delete

	#FFFFFF	24px	MFG Labs	download	Download
	#008abf	46px	Entype	help-circled	Confirmation Message
	#AAAAAA	14px	Font Awesome	info-circled	Information / Field Tip
	#555555	20px	Font Awesome	circle-empty	Unselected Radio Button
	#555555	20px	Font Awesome	dot-circled	Selected Radio Button
	#555555	20px	Font Awesome	check-empty	Unselected Checkbox
	#555555	20px	Font Awesome	ok-squared	Selected Checkbox
	#555555	30px	Font Awesome		Expand section
	#555555	30px	Font Awesome		Collapse section
	#FFFFFF	24px	Font Awesome	arrows-cw	Restore / Restoring
	#555555	20px	Font Awesome	cancel-circled	Close Inline Message
	#777777	20px	Fontelico	spin5	Gathering Data

4 Guests

4.1 Design approach

Tab color is green, and **Panel Level Actions** include adding a guest.

Toggle button for switching between gallery and table view, and **Filter** field for filtering panel/table content.

The screenshot shows the Kimchi interface with the 'Guests' tab selected. The main area displays a table of 10 virtual machines (VMs) with columns for Guest Name (ID), OS Type, Virtual Network Console, Processors Used, Memory Available, Storage I/O, and Network I/O. Each row includes an 'Actions' dropdown menu. A 'View Gallery' button is at the top left, and a 'Filter' input field is at the top right. The header bar also includes links for Peer Hosts, user ID name, Help, and Administration.

Guest Name (ID)	OS Type	Virtual Network Console	Processors Used	Memory Available	Storage I/O	Network I/O	Actions
VM name 001	Ubuntu	--	--	--	--	--	Actions
VM name 002	Ubuntu	--	--	--	--	--	Actions
VM name 003	Windows	--	--	--	--	--	Actions
VM name 004	Red Hat	View Console	60%	60%	7 KB/s	7 KB/s	Actions
VM name 005	Windows	View Console	54%	54%	8 KB/s	8 KB/s	Actions
VM name 006	Debian	View Console	48%	48%	7 KB/s	7 KB/s	Actions
VM name 007	Windows	View Console	60%	60%	8 KB/s	8 KB/s	Actions
VM name 008	Windows	View Console	54%	54%	7 KB/s	7 KB/s	Actions
VM name 009	Windows	--	Gathering Data	Gathering Data	Gathering Data	Gathering Data	Actions

Figure 4.1-1: High fidelity example of Guest panel layout – table view

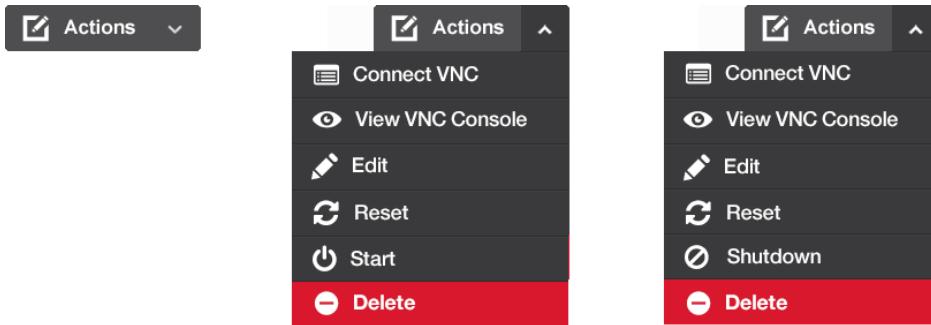


Figure 4.1-2: Example of Guest context menu actions – table view

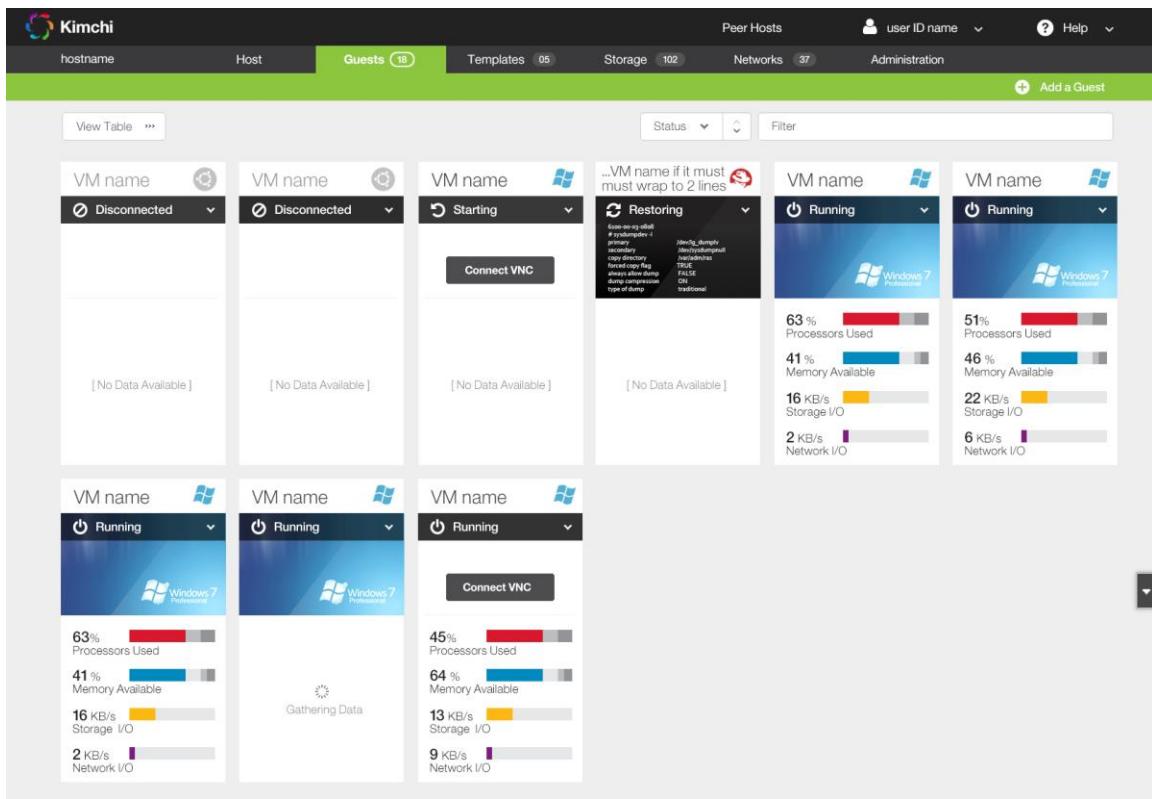


Figure 4.1-3: High fidelity example of Guest panel layout – gallery view

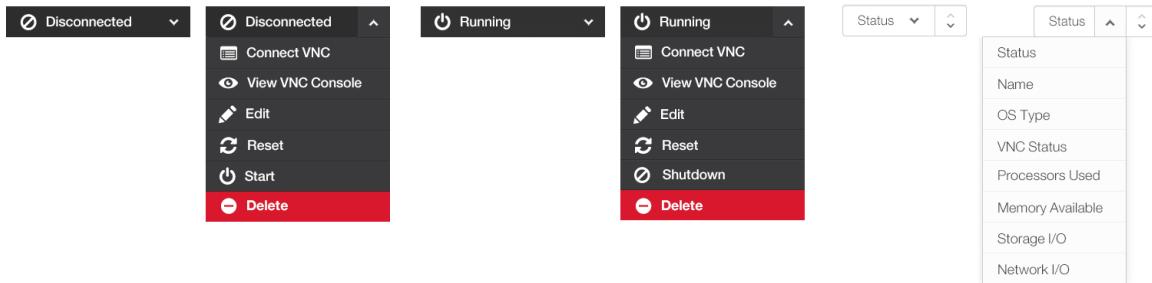


Figure 4.1-4: Example of Guest context menu of actions and table sort button with menu scoper context menu by column – gallery view

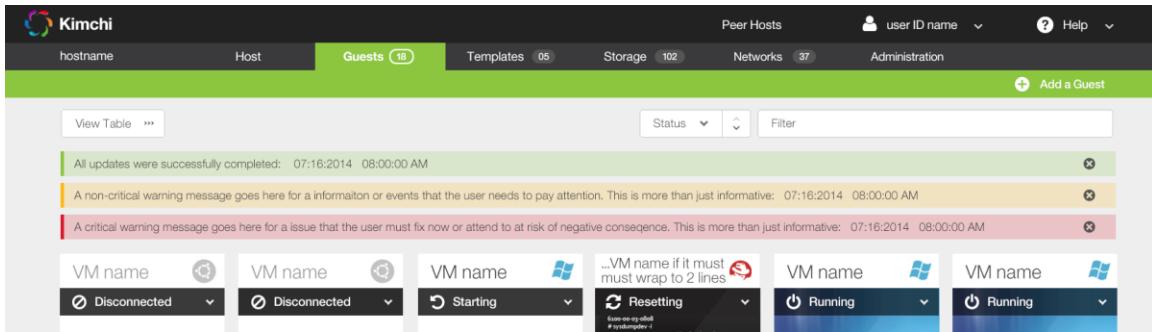


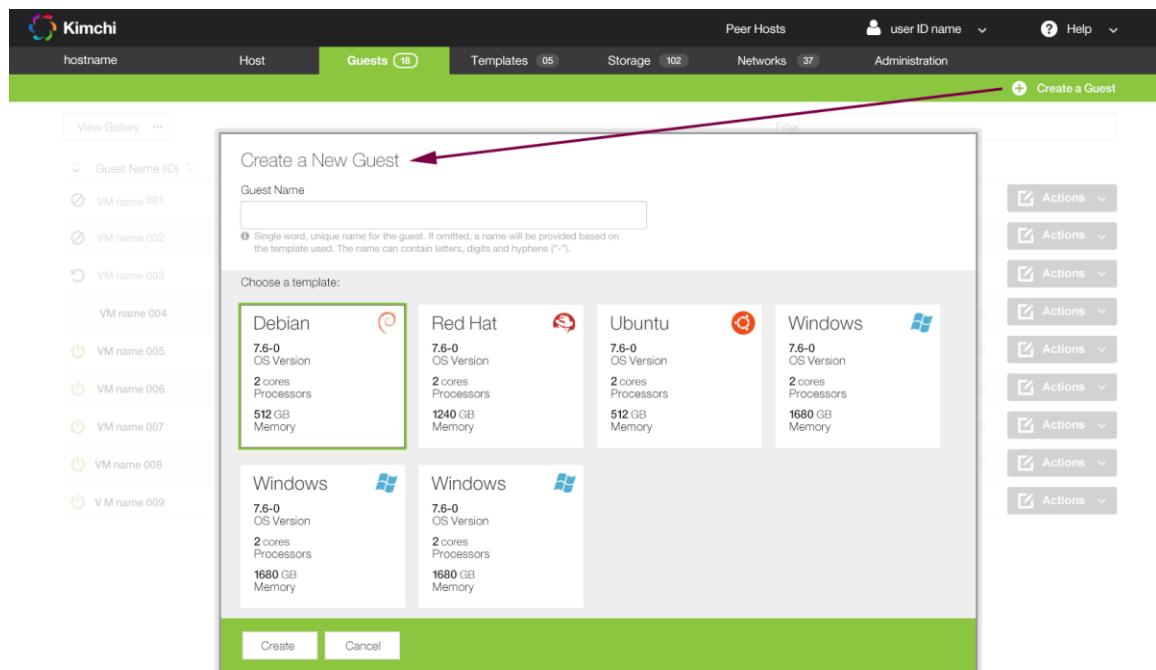
Figure 4.1-4: Example of inline messages for both gallery and table views

4.2 Host Tasks

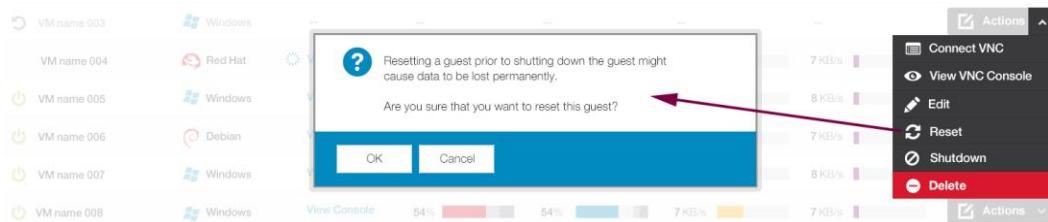
The following Administration panel tasks do not have a task window, message window or alert message associate with them:

- View Gallery
- View Table
- Sort Gallery
- Sort Table
- Filter
- Connect VNC (displays live tile in gallery view and progress icon in table view)
- View VNC Console (opens a new browser tab)
- Start (state changes)

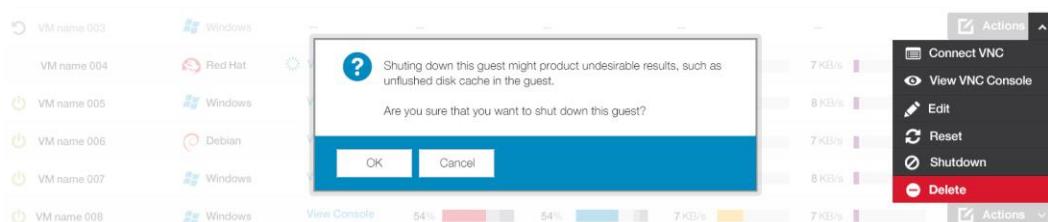
Create a Guest ...



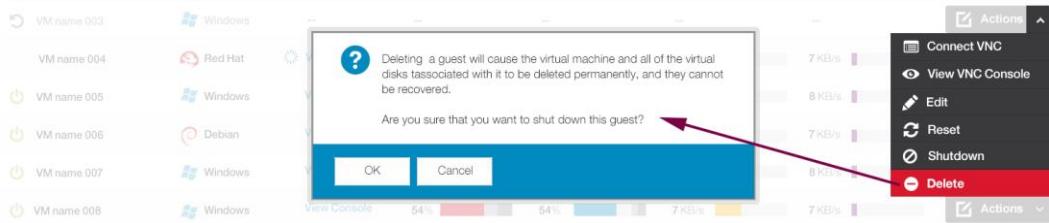
Reset ...



Shutdown ...



Delete ...



Edit ...

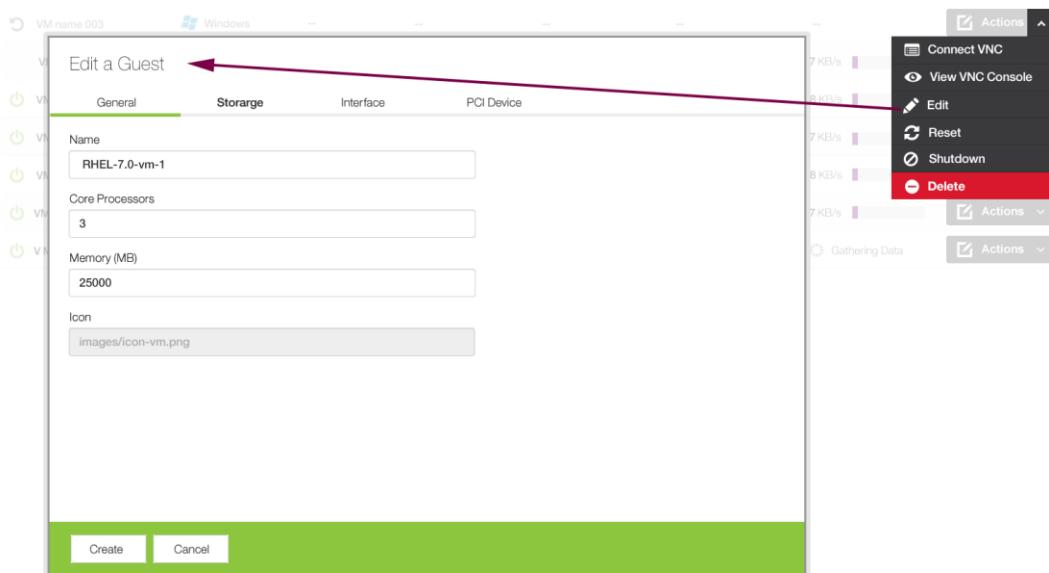


Figure 4.2-1: Example of Edit a Guest task window – General tab

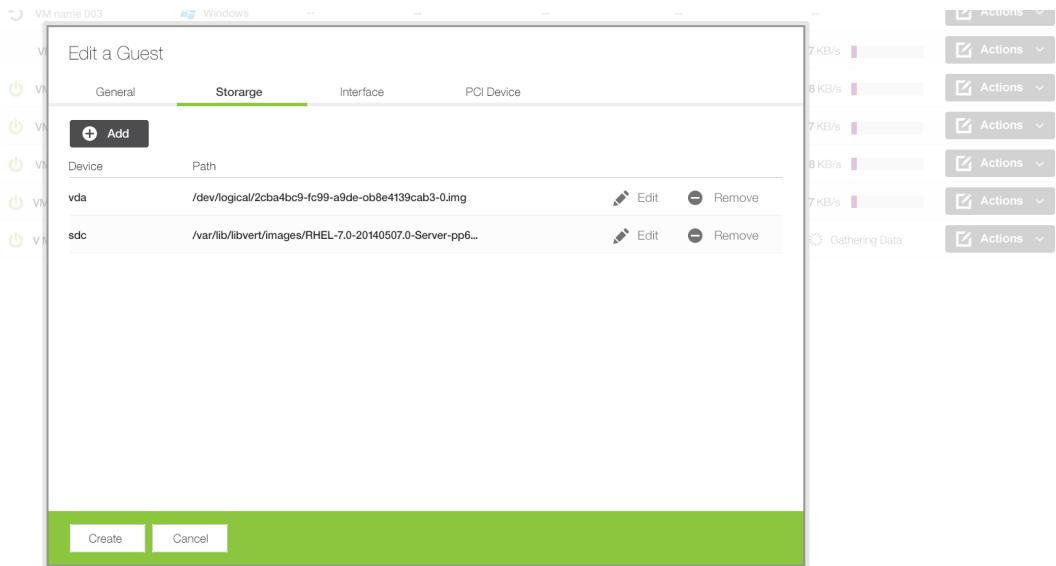


Figure 4.2-2: Example of Edit a Guest task window – Storage tab

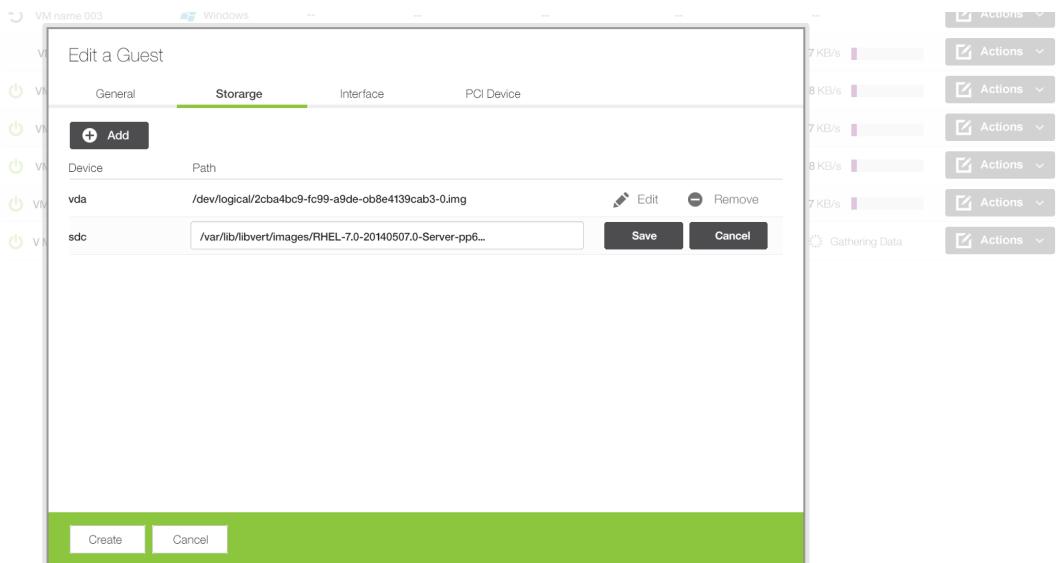


Figure 4.2-3: Example of Edit a Guest task window – Storage tab with one entry in Edit mode

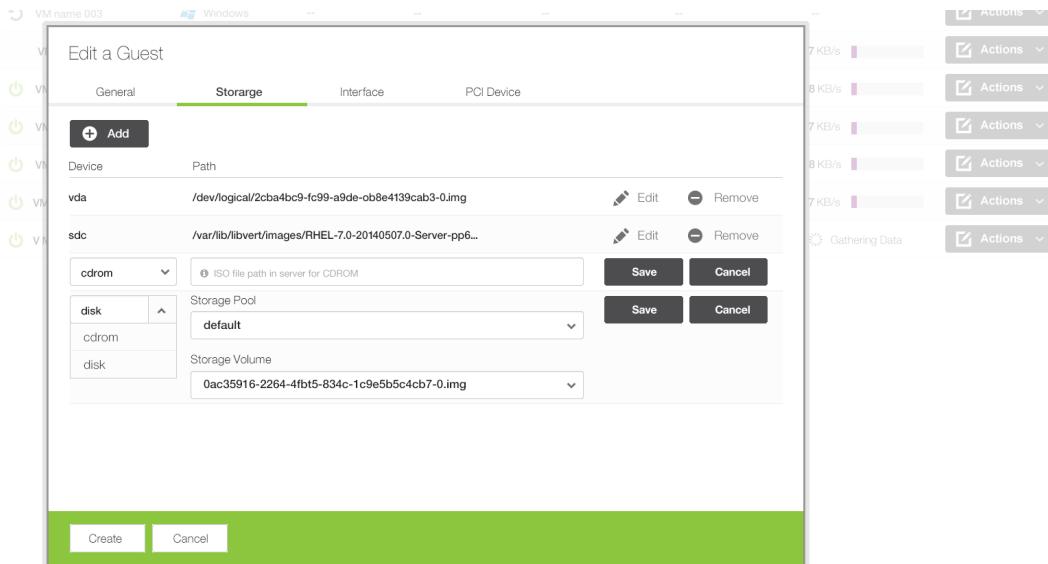


Figure 4.2-4: Example of Edit a Guest task window – Storage tab with two added entries (CDROM devices display Path field, DISK devices display Storage Pool and Storage Volume fields)

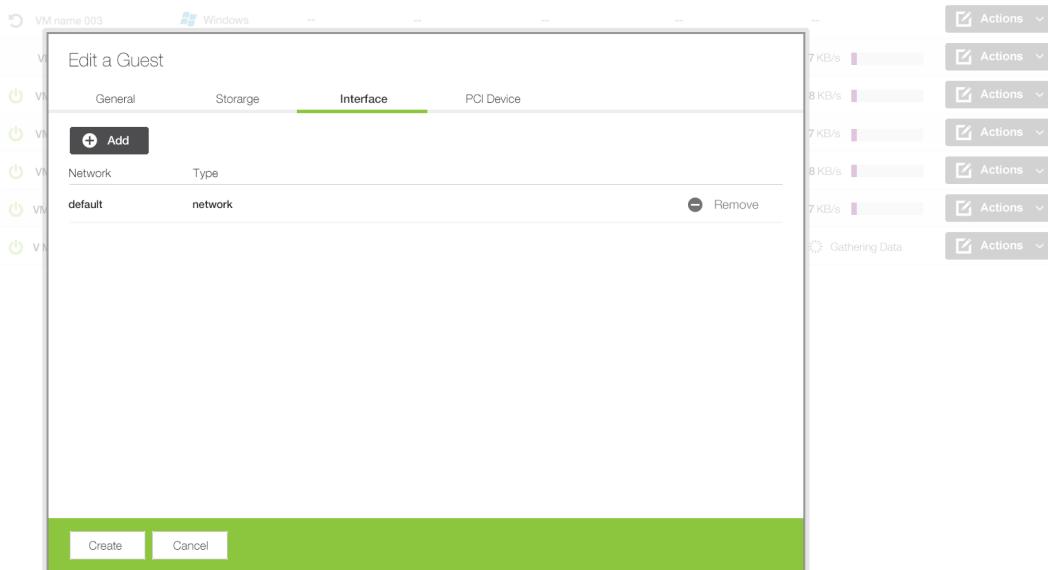


Figure 4.2-5: Example of Edit a Guest task window – Interface tab

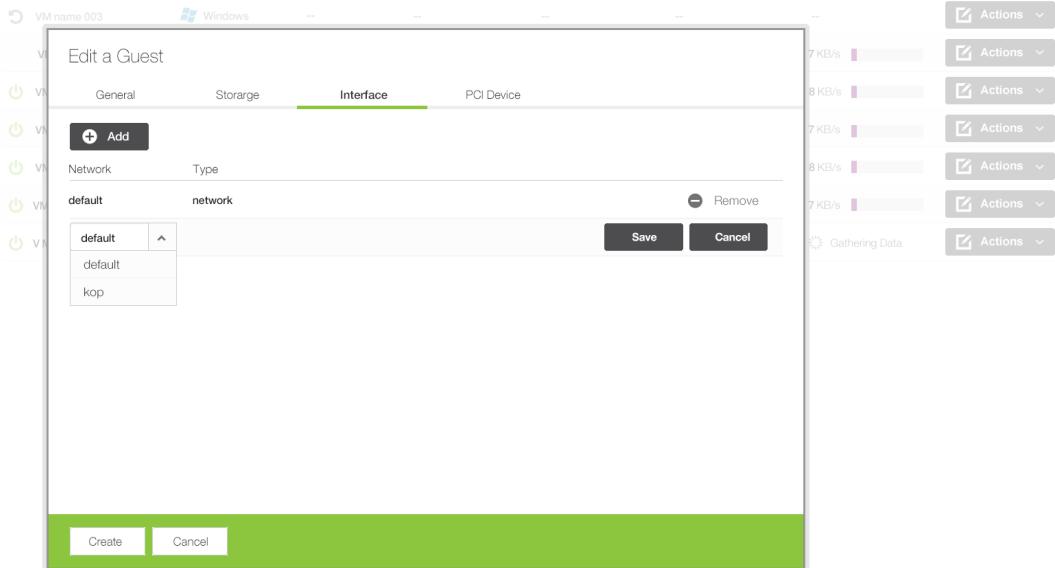


Figure 4.2-6: Example of Edit a Guest task window – Interface tab with added entry

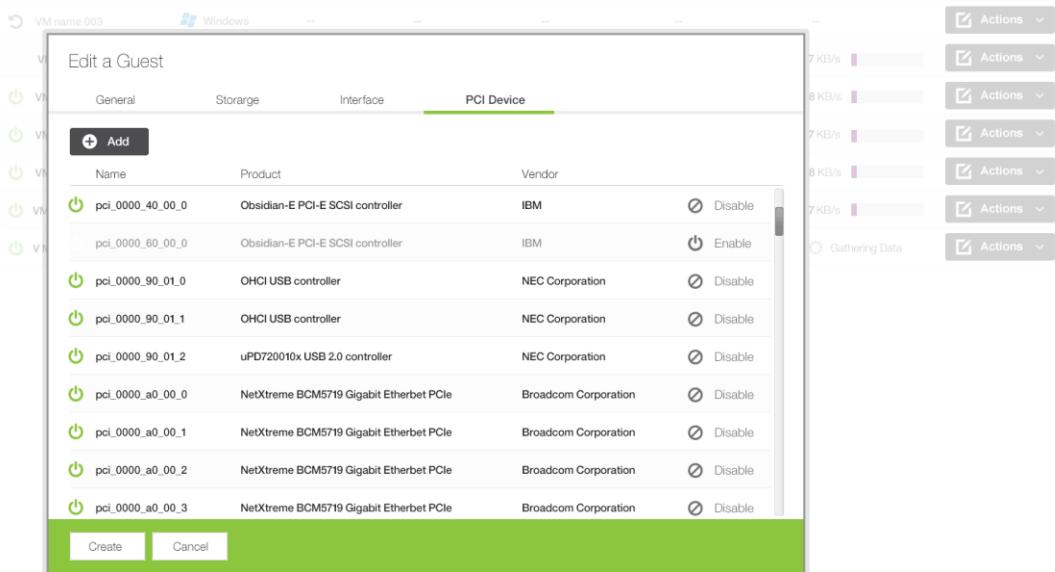


Figure 4.2-7: Example of Edit a Guest task window – PCI Device tab

4.3 Icons

Icon	hex value	size	Font	Character Name	Behavior
	#FFFFFF	25px	Entypo	plus-circled	Add guest
	#777777	20px	Elusive	edit-alt	Actions
	#CCCCCC	13px	Font Awesome	down-open	- Single-click (or single tap) causes context menu to open
	#AAAAAA	13px	Font Awesome	up-open	- Single-click (or single tap)

					causes context menu to close
Ø	#FFFFFF	24px	Font Awesome	block	Disconnected (state) / Disabled /Shutdown
↻	#FFFFFF	24px	Font Awesome	ccw	Starting (state) / Start (action)
⟳	#8cc63f	26px	Font Awesome	arrows-cw	Resetting (state) / Reset (action)
🔛	#8cc63f	24px	Font Awesome	off	Running (state) / Enabled (state) / Start (action) / Enable (action)
✎	#FFFFFF	23px	Elusive	pencil	Edit
💻	#FFFFFF	23px	Font Awesome	list-alt	Connect VNC
👁	#FFFFFF	25px	Entypo	eye	View VNC Console
➖	#FFFFFF	25px	Entypo	minus-circled	Delete / Remove
⚡	#777777 #008abf	20px	Fontelico	spin5	Gathering Data
>	#000000	10px	Font Awesome	angle-right	Change View “>>>”
ℹ	#aaaaaa	12px	Font Awesome	info-circled	Field Help
?	#008abf	46px	Font Awesome	help-circled	Confirmation Message
curl	--	24px table 34px gallery		Debian.svg	--
curl	--	24px table 34px gallery		Debin_disabled.svg	--
Red Hat	--	24px table 34px gallery		RedHat.svg	--
Red Hat	--	24px table 34px gallery		RedHat_disabled.svg	--
Ubuntu	--	24px table 34px gallery		Ubuntu.svg	--
Ubuntu	--	24px table 34px gallery		Ubuntu_disabled.svg	--
Windows	--	24px table 34px gallery		Windows.svg	--
Windows	--	24px table 34px gallery		Windows_disabled.svg	--

5 Templates

5.1 Design approach

Tab color is teal, and **Panel Level Actions** include adding a template.

Toggle button for switching between gallery and table view, and **Filter** field for filtering panel / table content.

The screenshot shows the Kimchi interface with the 'Templates' tab selected. The main area displays a table of operating system templates. Each row contains the template name, OS type, version, processor count, memory, and an 'Actions' dropdown menu. A 'View Gallery' button is at the top left, and a 'Filter' input field is at the top right. The table has columns for Template Name (ID), OS Type, OS Version, Processors, Memory, and Actions.

Template Name (ID)	OS Type	OS Version	Processors	Memory	Actions
Debian	Debian	7.6-0	2 cores	512 GB	Actions
Red Hat	Red Hat	7.6-0	2 cores	1240 GB	Actions
Ubuntu	Ubuntu	7.6-0	2 cores	512 GB	Actions
Windows	Windows	7.6-0	2 cores	1580 GB	Actions

Figure 5.1-1: High fidelity example of Template panel layout – table view

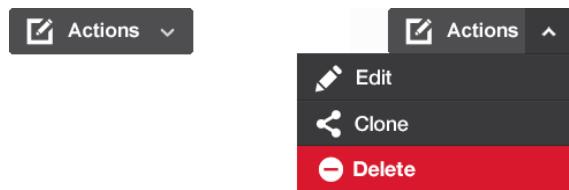


Figure 5.1-1: Example of Tempate context menu of actions – table view

The screenshot shows the Kimchi interface with the 'Templates' tab selected. The main area displays a grid of four operating system templates: Debian, Red Hat, Ubuntu, and Windows. Each template card shows its name, icon, and basic configuration details. Below each card is a 'Actions' dropdown menu. A 'View Table' button is at the top left, and a 'Status' and 'Filter' input field are at the top right.

Template	OS Type	OS Version	Processors	Memory
Debian	Debian	7.6-0	2 cores	512 GB
Red Hat	Red Hat	7.6-0	2 cores	1240 GB
Ubuntu	Ubuntu	7.6-0	2 cores	512 GB
Windows	Windows	7.6-0	2 cores	1580 GB

Figure 5.1-2: High fidelity example of Template panel layout – gallery view

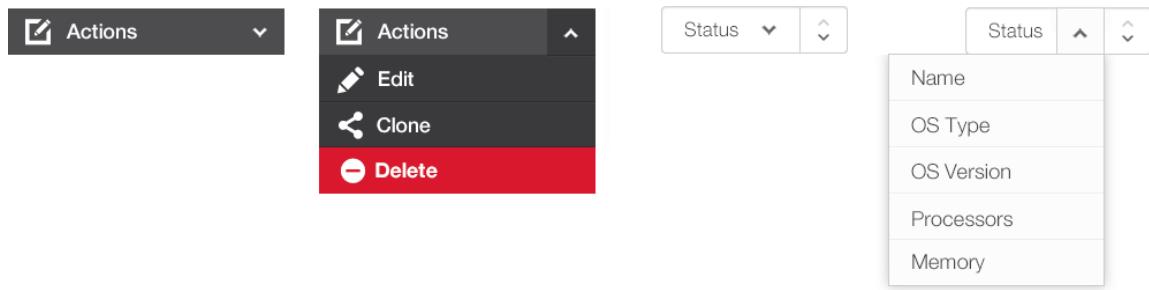


Figure 5.1-4: Example of Template context menu of actions – gallery view

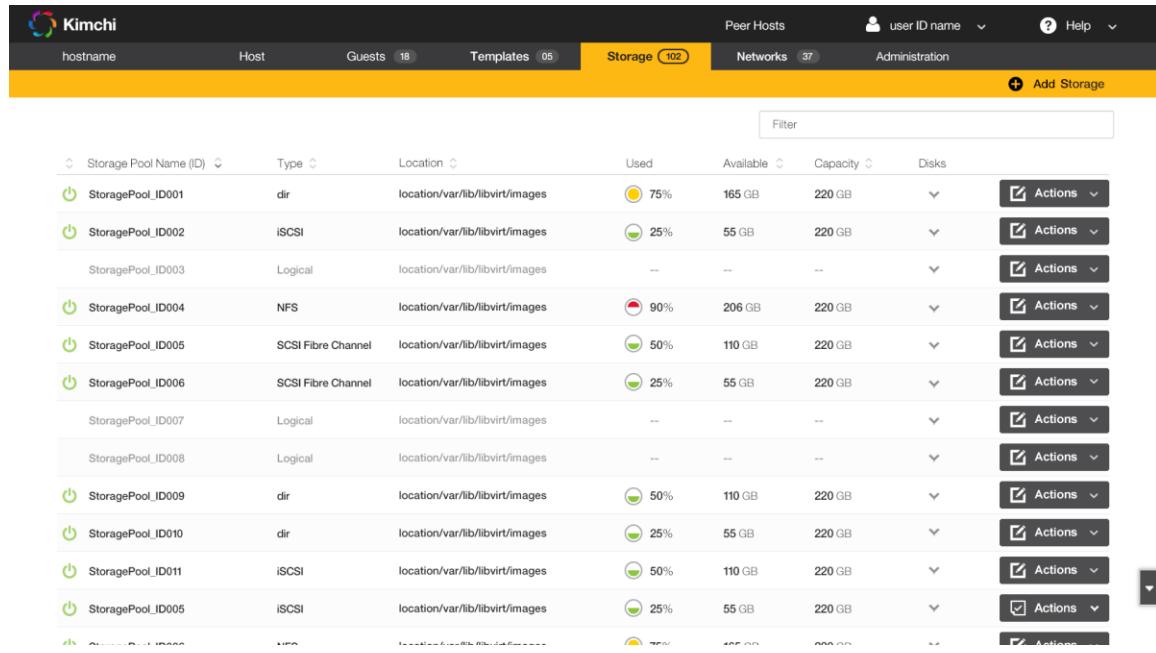
5.2 Icons

Icon	hex value	size	Font	Character Name	Behavior
	#FFFFFF	23px	Elusive	pencil	Edit
	#FFFFFF	25px			Clone
	#FFFFFF	25px	Entypo	minus-circled	Delete
	#FFFFFF	25px	Entypo	plus-circled	Add
	#777777	20px	Fontelico	spin5	Gathering Data
	#777777	20px			Actions button
	#CCCCCC	13px	Font Awesome	down-open	- Single-click (or single tap) causes context menu to open
	#AAAAAA	13px	Font Awesome	up-open	- Single-click (or single tap) causes context menu to close
>>>	#000000	10px			
	--	24px table 34px gallery		Debian.svg	--
	--	24px table 34px gallery		Debian_disabled.svg	--
	--	24px table 34px gallery		RedHat.svg	--
	--	24px table 34px gallery		RedHat_disabled.svg	--
	--	24px table 34px gallery		Ubuntu.svg	--
	--	24px table 34px gallery		Ubuntu_disabled.svg	--
	--	24px table 34px gallery		Windows.svg	--
	--	24px table 34px gallery		Windows_disabled.svg	--

6 Storage

6.1 Design approach

Tab color is yellow, and **Panel Level Actions** include adding a storage pool.



The screenshot shows the Kimchi interface with the 'Storage' tab selected, indicated by a yellow background. The main content area displays a table of storage pools:

Storage Pool Name (ID)	Type	Location	Used	Available	Capacity	Disks	Action
StoragePool_ID001	dir	location/var/lib/libvirt/images	75%	165 GB	220 GB	---	<input checked="" type="checkbox"/> Actions
StoragePool_ID002	iSCSI	location/var/lib/libvirt/images	25%	55 GB	220 GB	---	<input checked="" type="checkbox"/> Actions
StoragePool_ID003	Logical	location/var/lib/libvirt/images	--	--	--	---	<input checked="" type="checkbox"/> Actions
StoragePool_ID004	NFS	location/var/lib/libvirt/images	90%	206 GB	220 GB	---	<input checked="" type="checkbox"/> Actions
StoragePool_ID005	SCSI Fibre Channel	location/var/lib/libvirt/images	50%	110 GB	220 GB	---	<input checked="" type="checkbox"/> Actions
StoragePool_ID006	SCSI Fibre Channel	location/var/lib/libvirt/images	25%	55 GB	220 GB	---	<input checked="" type="checkbox"/> Actions
StoragePool_ID007	Logical	location/var/lib/libvirt/images	--	--	--	---	<input checked="" type="checkbox"/> Actions
StoragePool_ID008	Logical	location/var/lib/libvirt/images	--	--	--	---	<input checked="" type="checkbox"/> Actions
StoragePool_ID009	dir	location/var/lib/libvirt/images	50%	110 GB	220 GB	---	<input checked="" type="checkbox"/> Actions
StoragePool_ID010	dir	location/var/lib/libvirt/images	25%	55 GB	220 GB	---	<input checked="" type="checkbox"/> Actions
StoragePool_ID011	iSCSI	location/var/lib/libvirt/images	50%	110 GB	220 GB	---	<input checked="" type="checkbox"/> Actions
StoragePool_ID005	iSCSI	location/var/lib/libvirt/images	25%	55 GB	220 GB	---	<input checked="" type="checkbox"/> Actions
All storage pools	11	Total Capacity: 2.20 TB	Used Capacity: 1.76 TB	Free Capacity: 440.00 GB	2.20 TB	---	<input checked="" type="checkbox"/> Actions

Figure 6.1-1: High fidelity example of basic Guest panel layout

Figure 6.1-2: High fidelity example of Guest panel layout with Disks content open inline – gallery view

Figure 6.1-2: High fidelity example of Guest panel layout with Disks content open inline – table view



Figure 6.3-2: Example of Storage actions context menu



Figure 6.1-3: Example of Storage > Disks context menu of actions

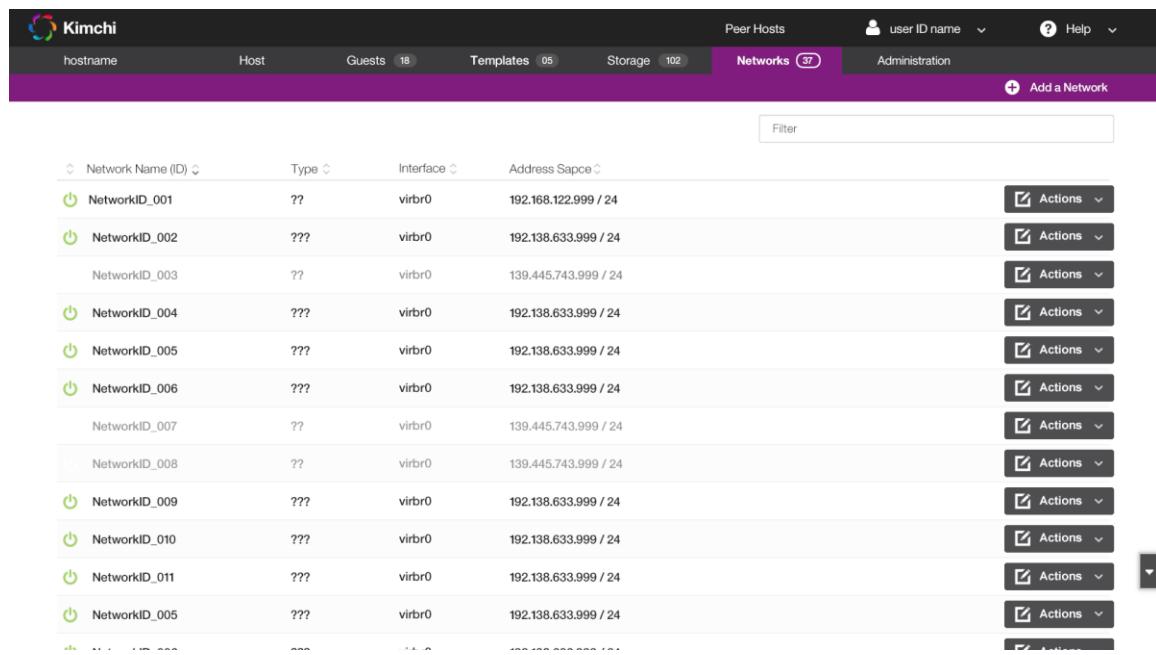
6.2 Icons

Icon	hex value	size	Font	Character Name	Behavior
⊕	#FFFFFF	25px	Entypo	plus-circled	Add
⟳	#FFFFFF	24px	Font Awesome	off	Activate
⊖	#FFFFFF	24px			Deactivate
ⓧ	#FFFFFF	24px			Undefine
➡	#FFFFFF	26px			Convert to [format]
▼	#CCCCCC	13px	Font Awesome	down-open	- Single-click (or single tap) causes context menu to open
▲	#AAAAAA	13px	Font Awesome	up-open	- Single-click (or single tap) causes context menu to close
☒	#777777	20px			Actions button
>>>	#000000	10px	>>>	#000000	
🟡		25px	--	Low.png	Low amount of storage used (% range needs to be based on user feedback)
🟡		25px	--	Med.png	Medium amount of storage used (% range needs to be based on user feedback)
🔴		25px	--	High.png	High amount of storage used (% range needs to be based on user feedback)

7 Network

7.1 Design approach

Tab color is purple, and **Panel Level Actions** include adding a network.



The screenshot shows the Kimchi interface with the 'Networks' tab selected, indicated by a purple background. The main area displays a table of network configurations:

Network Name (ID)	Type	Interface	Address Space	Actions
NetworkID_001	??	virbr0	192.168.122.999 / 24	[Actions]
NetworkID_002	???	virbr0	192.138.633.999 / 24	[Actions]
NetworkID_003	??	virbr0	139.445.743.999 / 24	[Actions]
NetworkID_004	???	virbr0	192.138.633.999 / 24	[Actions]
NetworkID_005	???	virbr0	192.138.633.999 / 24	[Actions]
NetworkID_006	???	virbr0	192.138.633.999 / 24	[Actions]
NetworkID_007	??	virbr0	139.445.743.999 / 24	[Actions]
NetworkID_008	??	virbr0	139.445.743.999 / 24	[Actions]
NetworkID_009	???	virbr0	192.138.633.999 / 24	[Actions]
NetworkID_010	???	virbr0	192.138.633.999 / 24	[Actions]
NetworkID_011	???	virbr0	192.138.633.999 / 24	[Actions]
NetworkID_005	???	virbr0	192.138.633.999 / 24	[Actions]

Figure 7.1-1: High fidelity example of Network panel layout

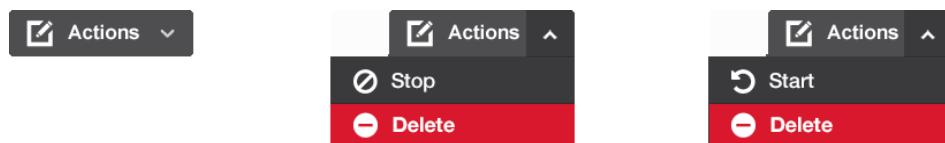


Figure 7.1-2: Example of Network actions context menu

7.2 Icons

Icon	hex value	size	Font	Character Name	Behavior
	#FFFFFF	25px	Entypo	plus-circled	Add
	#FFFFFF	24px	Font Awesome	ccw	Start / Starting
	#FFFFFF	24px			Delete
	#FFFFFF	24px			Stop
	#FFFFFF	24px	Font Awesome	off	Started / Activated / Enabled
	#CCCCCC	13px	Font Awesome	down-open	- Single-click (or single tap) causes context menu to open
	#AAAAAA	13px	Font Awesome	up-open	- Single-click (or single tap) causes context menu to close
	#777777	20px			Actions button

8 Administration

8.1 Design approach

Tab color is red, and each panel option can be expanded and collapsed.

The screenshot displays the Kimchi administration interface with several panels:

- Firmware Update:** Shows version FW770.20 (ZL770_075) [t], FW770.20 (ZL770_075) [p], and FW770.20 (ZL770_075) [b]. It includes fields for Hostname, Port, and SNMP, along with buttons for Subscribe and Start. A sidebar shows Power Options: Balanced, Latency Performance (selected), Throughput Performance, Default (selected), Power Save, Virtual Guest, Enterprise Storage, Server Power Save, and Virtual Host.
- Configuration Backup:** A table listing files with their timestamps, download links, and remove options. The files listed are:
 - 482709b7-d5dd-4abc-bce6-98af7f8db9ec.tar.gz (9/23/2014, 9:19:17 AM)
 - 482709b7-d5dd-4abc-bce6-98af7f8db9ec.tar.gz (9/23/2014, 9:19:17 AM)
- Network Configuration:** A table for setting IP addresses. It includes columns for Interface Name, IP Address, Mask IP Address, DNS IP Address, and Gateway IP Address. The table shows three entries for enp160s0f3.
- SAN Adapters:** A table showing SAN adapter details. It includes columns for Name, WWPN Address, WWNN Address, State, In Use / Max Ports, Speed, and Symbolic Name. The table shows two entries: "Name goes here" and "Name goes here".
- Sensor Monitor:** A table showing sensor monitoring data. It includes columns for Ambient Temperature, Fan Speed, Power, and Hard Drive. The table shows five entries: Temp 1: 23C, Fan 1: 3900 RPM, Fan 2: 3900 RPM, Fan 3: 3900 RPM, Fan 4: 3900 RPM, and Fan 5: 3900 RPM.

Figure 8.1-1: High fidelity example of Administration panel layout – all sections expanded

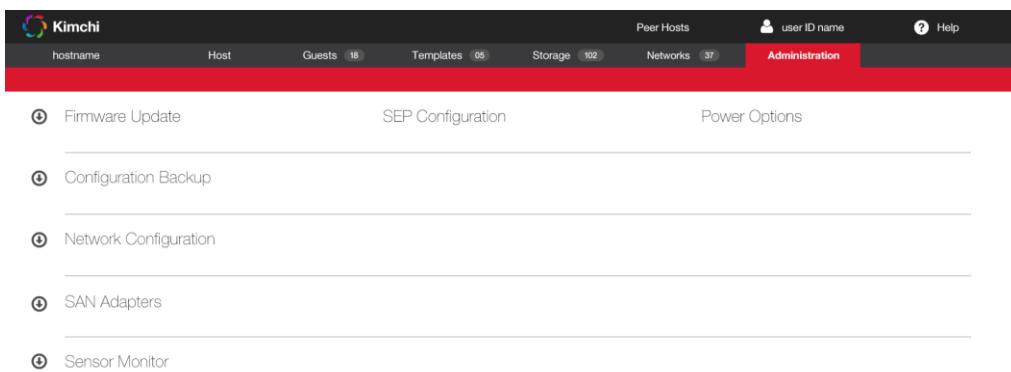


Figure 8.1-1: High fidelity example of Administration panel layout – all sections collapsed

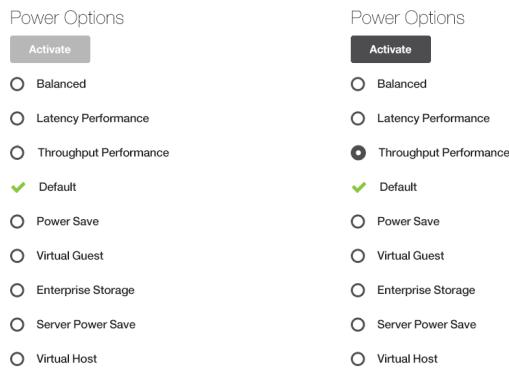


Figure 8.1-2: Example of Power options – Activation button is disabled when no radio button is selected (left) and enabled when a radio button is selected (right)



Figure 8.1-2: Example of Configuration Backup – file properties appear inline when the actions context menu

Configuration Backup							
Actions		Timestamp	Paths				
File		9/23/2014, 9:19:17 AM	▼	Download	Remove		
482709b7-d5dd-4abc-bce6-98af7f8db9ec.tar.gz		9/23/2014, 9:19:17 AM	▲	Download	Remove		
Description Description text goes here if applicable		Paths Included /etc /var/spool/com			Paths Excluded /etc/intd.d /etc/rc.d /etc/rc?.d		
482709b7-d5dd-4abc-bce6-98af7f8db9ec.tar.gz		9/23/2014, 9:19:17 AM	▼	Download	Remove		
482709b7-d5dd-4abc-bce6-98af7f8db9ec.tar.gz		9/23/2014, 9:19:17 AM	▼	Download	Remove		
482709b7-d5dd-4abc-bce6-98af7f8db9ec.tar.gz		9/23/2014, 9:19:17 AM	▼	Download	Remove		
482709b7-d5dd-4abc-bce6-98af7f8db9ec.tar.gz		9/23/2014, 9:19:17 AM	▼	Download	Remove		

Figure 8.1-2: High fidelity example of Configuration Backup section layout with Paths content open inline – semi-table view

Network Configuration					
Save		Cancel			
Interface Name	IP Address	Mask IP Address	DNS IP Address	Gateway IP Address	
enp160s0f3	<input type="text" value="Enter IP Address"/>	<input type="text" value="Enter IP Address"/>	Add	<input type="text" value="255.255.255.255"/>	
enp160s0f3	<input type="text" value="100.100.100.100"/>	<input type="text" value="255.255.255.255"/>		<input type="text" value="255.255.255.255"/>	
enp160s0f3	<input type="text" value="100.100.100.100"/>	<input type="text" value="255.255.255.255"/>			

Figure 8.1-2: Example of Network Configuration option – Save and Cancel buttons appear when changes are made to a field in this section, and the panel becomes modal. After either the saved or canceled button is clicked the buttons disappear and the panel is no longer modal again.

8.2 Administration Tasks

The following Administration panel tasks do not have a task window, message window or alert message associate with them:

- SEP Configuration > Start ...
- Configuration Backup > Download ...
- Configuration Backup > Remove ...
- Configuration Backup > Generate Default Backup ...
- Configuration Backup > New Custom Backup ...

Firmware > Update ...

Figure 8.2-1: Example of Firmware task for updating host firmware

SEP Configuration > Subscribe ...

Figure 8.2-1: Example of SEP Configuration task for subscribing

Power Option > Activate ...

Figure 8.2-1: Example of Network Configuration task for adding a DNS IP Address

Configuration Backup > Batch Delete ...

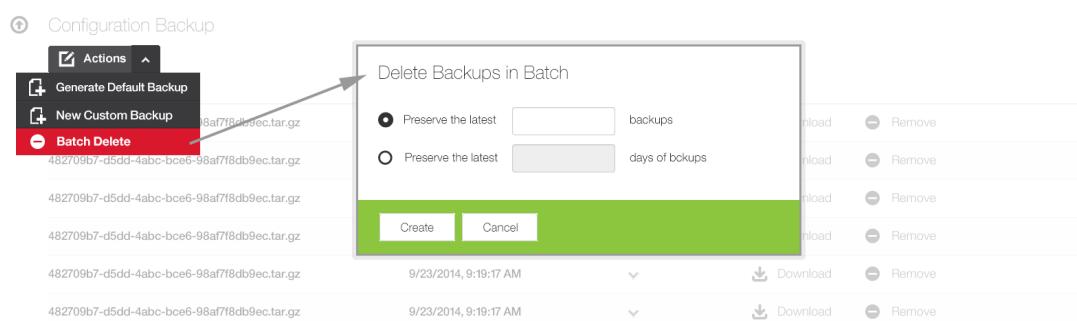


Figure 8.2-1: Example of Configuration Backup task for deleting a batch of configuration backups at one time

Network Configuration > DNS IP Address > Add ...

Figure 8.2-1: Example of Network Configuration task for adding a DNS IP Address

8.3 Icons

Icon	hex value	size	Font	Character Name	Behavior
⊖	#FFFFFF	24px			Delete
➕	#FFFFFF	24px			New Custom Backup / Generate Default Backup
📝	#777777	20px			Actions button
➕	#FFFFFF	25px	Entypo	plus-circled	Add

	#8cc63f	24px	Font Awesome	ccw	Activated
	#FFFFFF	24px			Selected
	#FFFFFF	24px			Unselected
	#555555	48px			Expand
	#555555	48px			Collapse
	#CCCCCC	13px	Font Awesome	down-open	- Single-click (or single tap) causes context menu to open
	#AAAAAA	13px	Font Awesome	up-open	- Single-click (or single tap) causes context menu to close

9 Blueprint Fonts and Colors

Global Fonts and Colors ...

Helvetica Font used for Kimchi

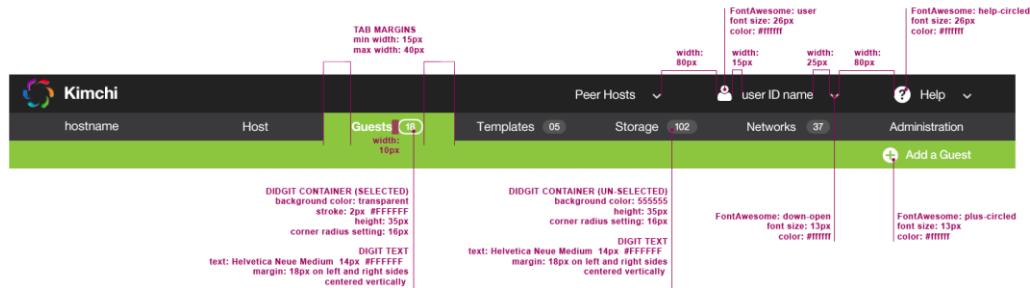
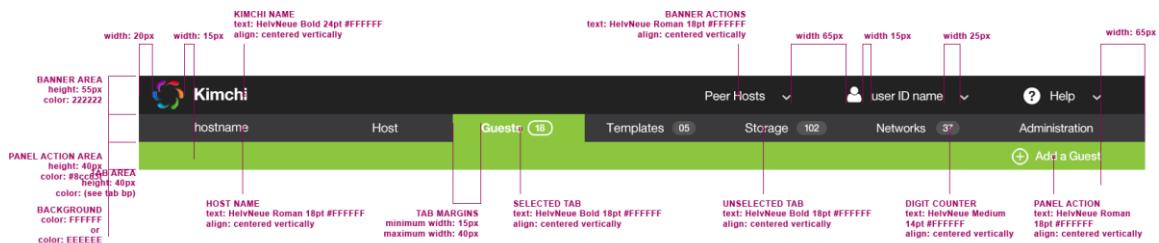
We cannot directly embed the IBM version of the Helvetica for legal reason.
This is the best CSS snippet code to handle the Helvetica across all browsers, devices and OS.

```
body {  
    font-family: "HelveticaNeue-Light", "Helvetica Neue Light", "Helvetica Neue", Helvetica,Arial,"Lucida Grande", sans-serif;  
    font-weight: 300;  
    -webkit-font-smoothing: antialiased;  
}
```

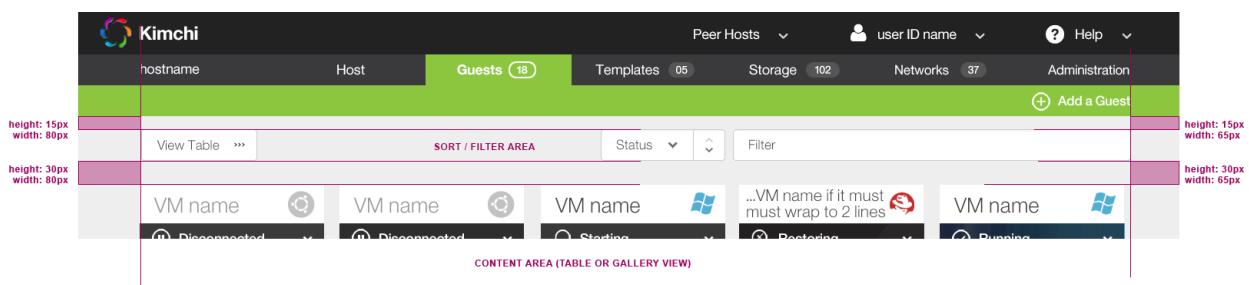
Hexadecimal color reference for the tab header.



Global Header ...



Global Margins ...



Global Filters and Table Filters ...

The screenshot displays the Kimchi interface with several UI elements annotated with dimensions and styles.

Global Filter (Top Bar):

- Width: 80px (purple bar)
- Height: 20px (purple bar)
- Content: "Add a Guest" button (width: 65px)

Table Filter (Guests View):

- Width: 20px (purple bar)
- Height: 30px (purple bar)
- Content: "View Gallery" button (width: 15px), "Filter" button (width: 10px), and dropdown menus for "Guest Name (ID)", "OS Type", "Virtual Network", "Console", "Processors Used", "Memory Available", "Memory Available", "Storage I/O", and "Network I/O".

Table Filter (VM Status View):

- Width: 20px (purple bar)
- Height: 20px (purple bar)
- Content: "View Table" button (width: 15px), "Status" button (width: 15px), and "Filter" button (width: 20px).

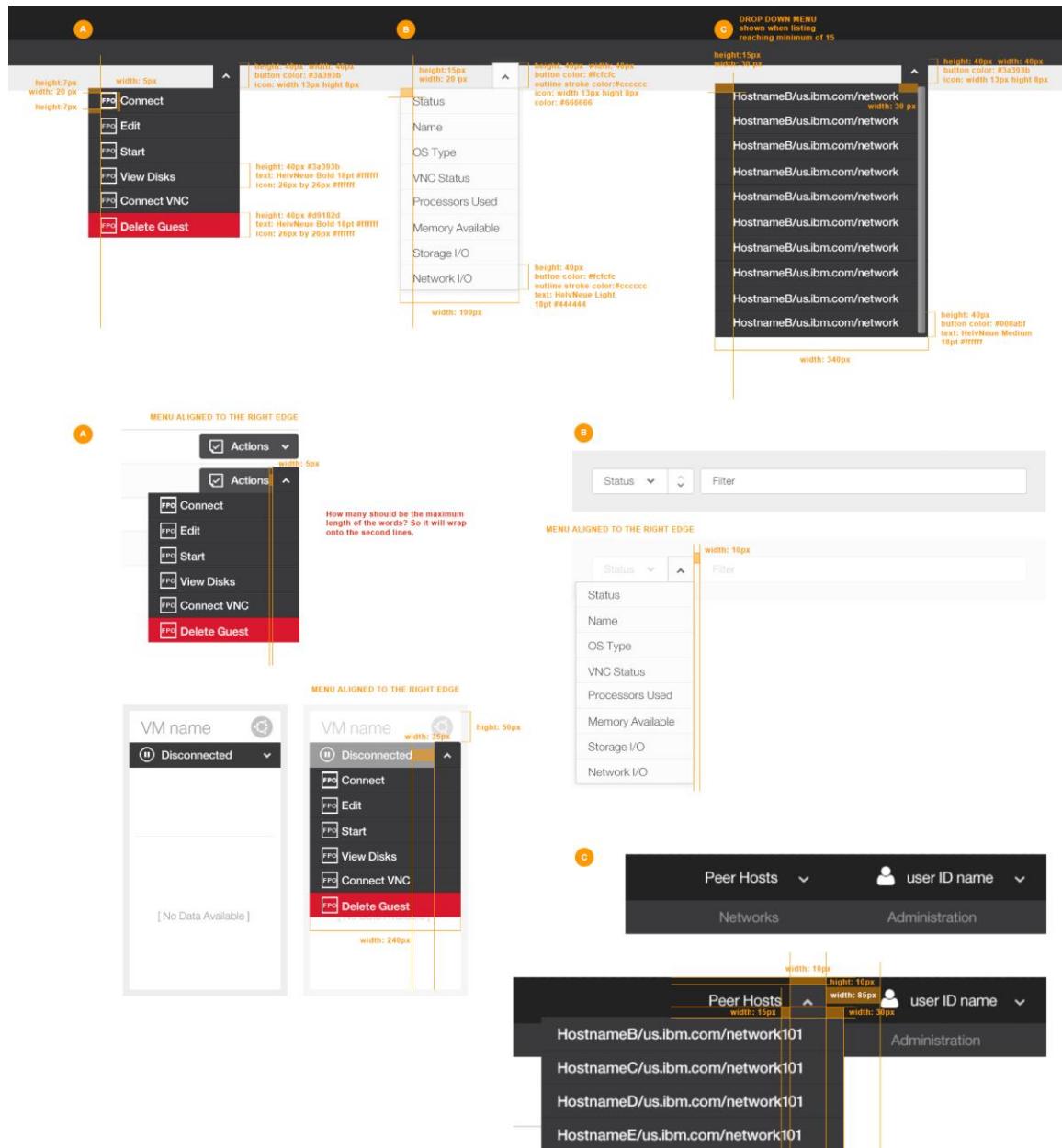
Table Filter (Storage Pool View):

- Width: 20px (purple bar)
- Height: 20px (purple bar)
- Content: "View Table" button (width: 15px), "Filter" button (width: 10px), and dropdown menus for "Storage Pool Name (ID)", "Format", "Type", "Used", "Allocated", and "Capacity".

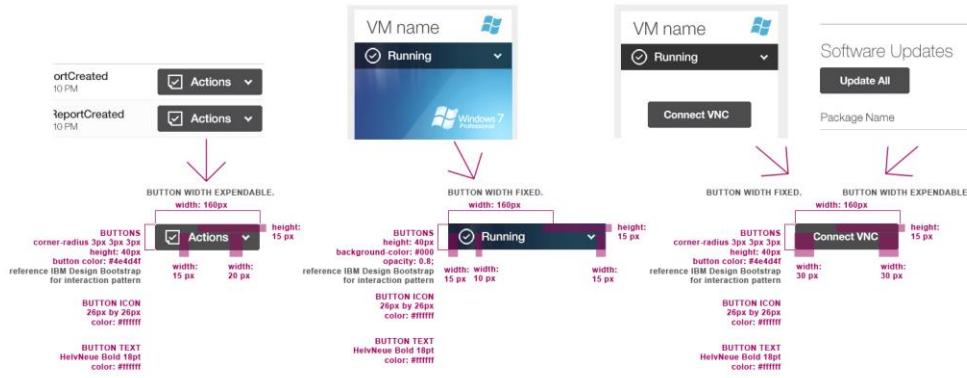
Table Filter (Storage Pool Detail View):

- Width: 20px (purple bar)
- Height: 20px (purple bar)
- Content: "View Table" button (width: 15px), "Name" input field (width: 15px), "Filter" button (width: 10px), and progress bars for "Used" (95%) and "Allocated" (80%).

Global Context Menu ...



Global Buttons ...



We need a general Actions button bp that can be reused in all tab sections

Button gestures (see IBM Design Bootstrap)

Global Tables ...

HEADER FON - text: Helvetica Light 17pt #222222							
Network Name (ID)	Type	Interface	Address Space		Field content goes here	Actions	Actions
NetworkID_001	??	virbr0	192.168.122.999 / 24	ENABLED - text: Helvetica Medium 16pt #222222	text: Helvetica Light 17pt #ddddd	Actions	Actions
NetworkID_002	???	virbr0	192.138.633.999 / 24			Actions	Actions
NetworkID_003	??	virbr0	139.445.743.999 / 24			Actions	Actions
NetworkID_004	???	virbr0	192.138.633.999 / 24	DISABLED - text: Helvetica Medium 16pt #999999		Actions	Actions
NetworkID_005	???	virbr0	192.138.633.999 / 24			Actions	Actions

icon: 25px by 25px

icon font: XXXxpt #cccccc

icon font: XXXxpt #666666

icon font: XXXxpt #000000

icon font: XXXxpt #cccccc

line separator: 1px solid gray #eddede

#fffff

width: 50px	width: 295px	width: 160px	width: 160px	width: 380px	width: 260px	width: 80px	width: 155px
width: 25px	width: 16px	width: 10px	height: 56px	192.168.122.999 / 24	Field content goes here	Actions	Actions
width: 25px	width: 16px	width: 10px	height: 56px	192.138.633.999 / 24		Actions	Actions
width: 25px	width: 16px	width: 10px	height: 56px	139.445.743.999 / 24		Actions	Actions
width: 25px	width: 16px	width: 10px	height: 56px	192.138.633.999 / 24		Actions	Actions
width: 25px	width: 16px	width: 10px	height: 56px	192.138.633.999 / 24		Actions	Actions

icon: 26px by 26px

Icons should Always vertically And horizontally centered in the space.

Global Gallery Cards ...

