
Support Technical Exchange: WebGUI 7.3.1.x and TIP 2.2.0.x Walkthrough of Basic configurations

Phillip Stanton
21 November 2012



Introduction

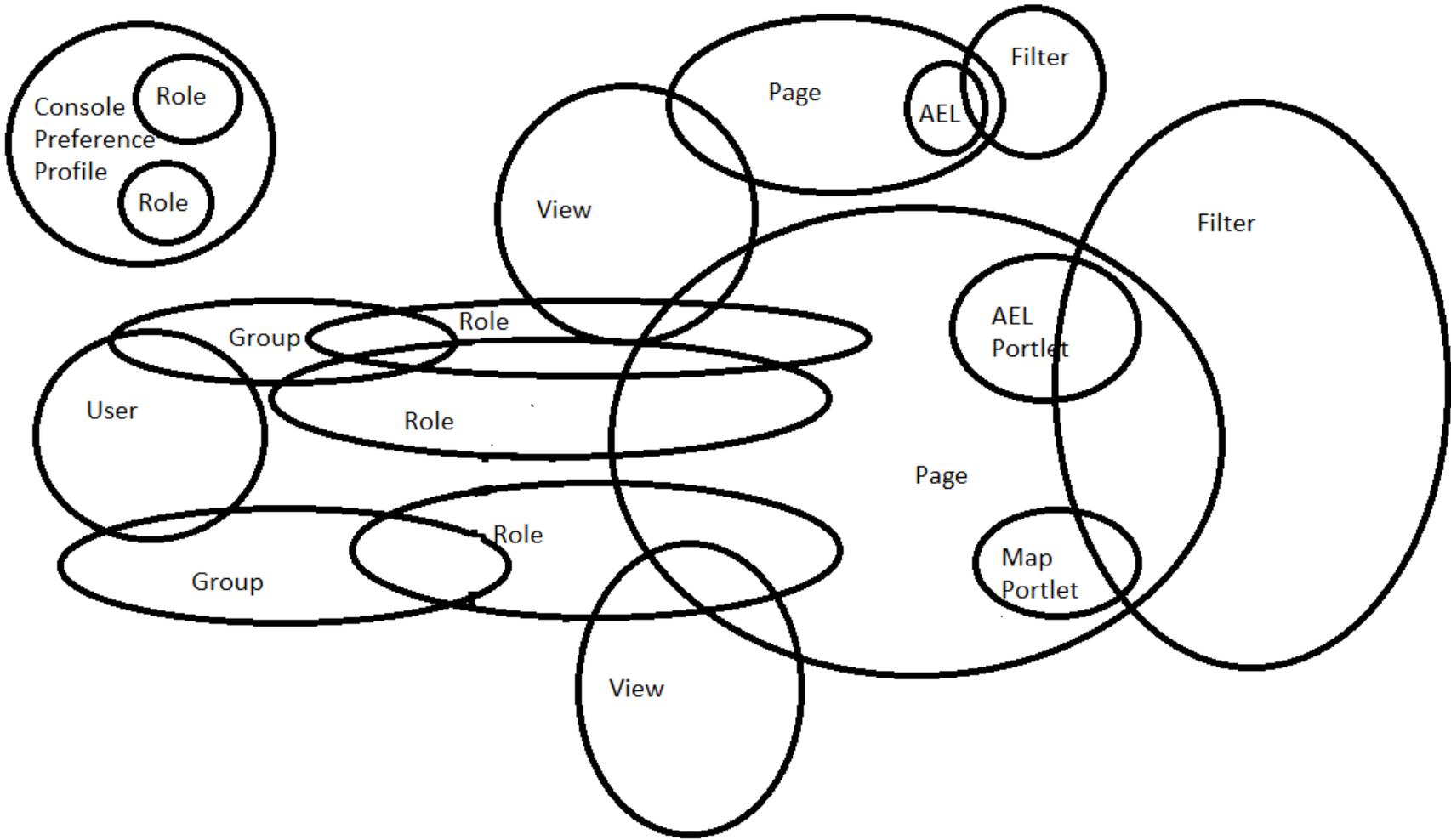
- Abstract:
- This presentation is going to cover a basic walkthrough for configuring a new Webgui 7.3.1 installation, that uses TIP 2.2.0.9.
- Configuring a Mock NOC
 - Users
 - Federated repository sources
 - Pages
 - Portlets
 - Events
 - o Maps
 - o Dashboards
 - o AEL, LEL, Table View
 - Views
 - Console Preference Profiles

Introduction

■ Requirements for the NOC

- Users should be restricted to view only events relevant to their job role
- Users should have access to events in their region
- User views should restrict their access to relevant pages
- New users should be added through the command line or GUI
- Executive Users should be able to view event status but not execute tools
- Administrative Users should have access to All Pages, Events and tools

Conceptual Diagram of build requirements



Federated Repository, Users, Groups, Roles, Filters

- **Repository**
 - Object Server selected for this walkthrough → `confvmm4ncos.sh`
 - LDAP
 - FileBased → only suitable for demo purposes

- **Users**
 - Object Server Realm & FileBased
 - Added through GUI
 - Added through CLI → `wsadmin.sh`

```
netcool@10.0.0.27-ncw-7.3.1-tip-2.2.0.9 :~/IBM/tivoli/tipv2/bin/-> ./confvmm4ncos.sh
Not enough arguments
Usage:
confvmm4ncos.sh username password host1 port1 [ host2 port2 ]
Examples:
confvmm4ncos.sh root 10.50.100.200 4100
confvmm4ncos.sh root pass server1.domain.com 4101 server2.domain.com 4102
Final result - Failure : 11
netcool@10.0.0.27-ncw-7.3.1-tip-2.2.0.9 :~/IBM/tivoli/tipv2/bin/-> █
```

Federated Repository, Users, Groups, Roles, Filters

■ User added through CLI

- Connect to server1
 - `cd TIPHOME/profiles/TIPProfile/bin`
 - `./wsadmin.sh -lang jython -user tipadmin -password tipadmin`
- Create User
 - `AdminTask.createUser ('[-uid e_server_noc -password netcool -confirmPassword netcool -cn Firstname -sn Lastname -mail e_server_noc@mock.noc.local]')`
 - `AdminTask.createUser ('[-uid executive -password netcool -confirmPassword netcool -cn Firstname -sn Lastname -parent o=defaultWIMFileBasedRealm -mail executive@mock.noc.local]')`
- Exit the CLI Interface
 - `quit`

Federated Repository, Users, Groups, Roles, Filters

■ Groups

- Object Server Realm & FileBased
- Added through GUI
- Added through CLI → `wsadmin.sh`
- Add User to Group through GUI
- Add User to Group through CLI → `wsadmin.sh`

■ Roles

- Added through GUI
- Added through CLI → `tipcli.sh`
- Mapped to Group through GUI
- Mapped to Group through CLI → `tipcli.sh`

■ Filters

- Added through GUI
- Added through CLI → `runwaapi`

Federated Repository, Users, Groups, Roles, Filters

- Group added through the CLI
 - Connect to server1
 - `cd TIPHOME/profiles/TIPProfile/bin`
 - `./wsadmin.sh -lang jython -user tipadmin -password tipadmin`
 - Create Group
 - `AdminTask.createGroup ('[-cn East_Servers -description "NOC Server Admins in the East"]')`
 - `AdminTask.createGroup ('[-cn Executive -parent o=defaultWIMFileBasedRealm -description "Executive View of events with no sql rights"]')`
 - Exit the CLI Interface
 - `quit`

Federated Repository, Users, Groups, Roles, Filters

- Add User to Group through the CLI
 - Connect to server1
 - `cd TIPHOME/profiles/TIPProfile/bin`
 - `./wsadmin.sh -lang jython -user tipadmin -password tipadmin`
 - Add User to Group
 - `AdminTask.addMemberToGroup ('[-memberUniqueName uid=e_server_noc,o=netcoolObjectServerRepository -groupUniqueName cn=East_Servers,o=netcoolObjectServerRepository]')`
 - `AdminTask.addMemberToGroup ('[-memberUniqueName uid=executive1,o=defaultWIMFileBasedRealm -groupUniqueName cn=Executive,o=defaultWIMFileBasedRealm]')`
 - Exit the CLI Interface
 - `quit`

Federated Repository, Users, Groups, Roles, Filters

- Role added through the CLI
 - Set the tipcli.sh bin directory to the current directory
 - `cd TIPHOME/profiles/TIPProfile/bin`
 - Add a new Role
 - `./tipcli.sh AddRole --username tipadmin --password tipadmin --roleName East_Servers`

Federated Repository, Users, Groups, Roles, Filters

■ Role Mapped to Group through the CLI

- Set the tipcli.sh bin directory to the current directory
 - `cd TIPHOME/profiles/TIPProfile/bin`
- Map the Roles to the Groups
 - `./tipcli.sh MapRolesToGroup --username tipadmin --password tipadmin --groupID cn=East_Servers,o=netcoolObjectServerRepository --rolesList ncw_user,East_Servers`
 - `./tipcli.sh MapRolesToGroup --username tipadmin --password tipadmin --groupID cn=Executive,o=defaultWIMFileBasedRealm --rolesList ncw_user,Executive`

Federated Repository, Users, Groups, Roles, Filters

- Filters Added through CLI

- Create WAAPI XML file
- PRODUCTHOME/waapi/bin/runwaapi -file create_filters.xml

```
netcool@10.0.0.27-ncw-7.3.1-tip-2.2.0.9 :~/IBM/tivoli/tipv2/profiles/TT
*****
WAAPIClient: Request sent to server on http://localhost:16310/ibm/consol
Sun Nov 18 18:01:21 PST 2012
*****
WAAPIClient: 2 methods returned errors during execution:

Method 'filter.addFilter' returned:
The 2 Filter East_Routers already exists.

Method 'filter.addFilter' returned:
The 2 Filter East_Servers already exists.
*****
WAAPIClient: 30 methods were fully executed.
netcool@10.0.0.27-ncw-7.3.1-tip-2.2.0.9 :~/IBM/tivoli/tipv2/profiles/TT
```

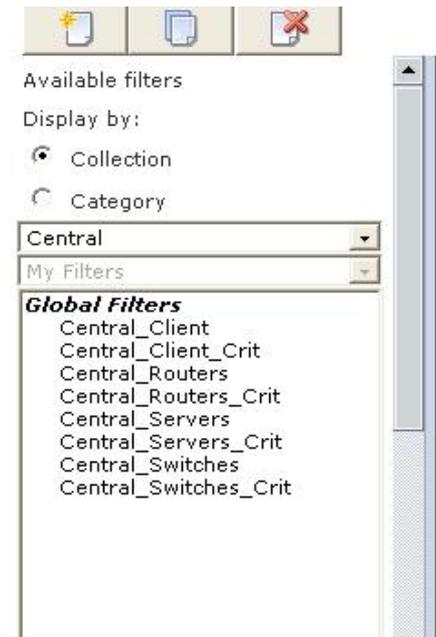
```

2
3 <methodCall>
4
5 <!-- Create All Network Filters -->
6
7 <!-- East Network Filters -->
8 <method methodName="filter.addFilter">
9 <filter name="East_Routers"
10 sql="Node like '^E\~-router+' and Severity > 0"
11 metriclabel="Metric : "
12 view="Default"
13 type="global"
14 datasource="NCOMS"/>
15 </method>
16
17 <method methodName="filter.addFilter">
18 <filter name="East_Routers_Crit"
19 sql="Node like '^E\~-router+' and Severity = 5"
20 metriclabel="Metric : "
21 view="Default"
22 type="global"
23 datasource="NCOMS"/>
24 </method>
25
26 </methodCall>
27
```

Filtercollections, Maps

- Filtercollections
 - Added through GUI
 - Added through CLI → runwaapi

- Maps
 - Added through GUI
 - Added through CLI → runwaapi



Filtercollections, Maps

- Filtercollection Added through CLI
 - Create WAAPI XML file
 - PRODUCTHOME/waapi/bin/runwaapi -file create_filters.xml

```

<methodCall>

  <method methodName="filtercollection.createFilterCollection">
    <filterCollection name="East" viewName="Default"
      viewType="global" description="A collection of filters for Events from the East Zone">
      <filter name="East_Routers" type="global"/>
      <filter name="East_Routers_Crit" type="global"/>
      <filter name="East_Switches" type="global"/>
      <filter name="East_Switches_Crit" type="global"/>
      <filter name="East_Servers" type="global"/>
      <filter name="East_Servers_Crit" type="global"/>
      <filter name="East_Client" type="global"/>
      <filter name="East_Client_Crit" type="global"/>
    </filterCollection>
  </method>
</methodCall>

```

```
netcool@10.0.0.27-ncw-7.3.1-tip-2.2.0.9
```

```
*****
```

```
WAAPIClient: Request sent to server on http://localhost:16310/ibm/console/webt
```

```
Sun Nov 18 18:02:07 PST 2012
```

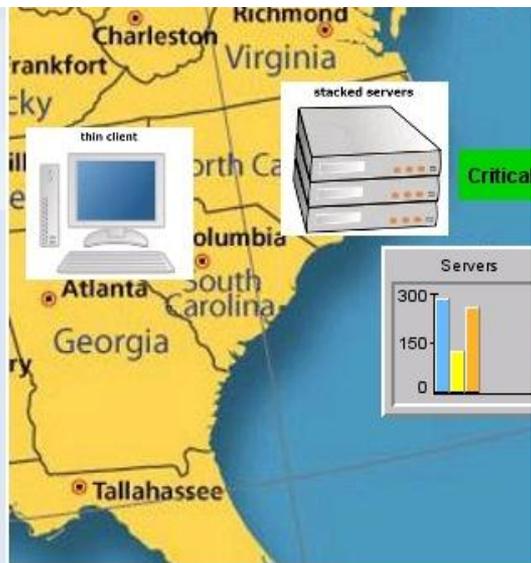
```
*****
```

```
WAAPIClient: 4 methods were fully executed.
```

```
netcool@10.0.0.27-ncw-7.3.1-tip-2.2.0.9 :~/IBM/tivoli/tipv2/profiles/TIPProfil
```

Filtercollections, Maps

- Maps Added through CLI
 - Copy the map resource to the PRODUCTHOME/etc/resources/__common/ directory
 - The map resources are images used as the map background
 - Create WAAPI XML file
 - PRODUCTHOME/waapi/bin/runwaapi -file create_map.xml



```

<methodCall>
  <method methodName="map.createMap">
    <map name="Client_Central" bgImage="Central-mod.JPG" bgColor="white" w="602" h="773" acl="*">

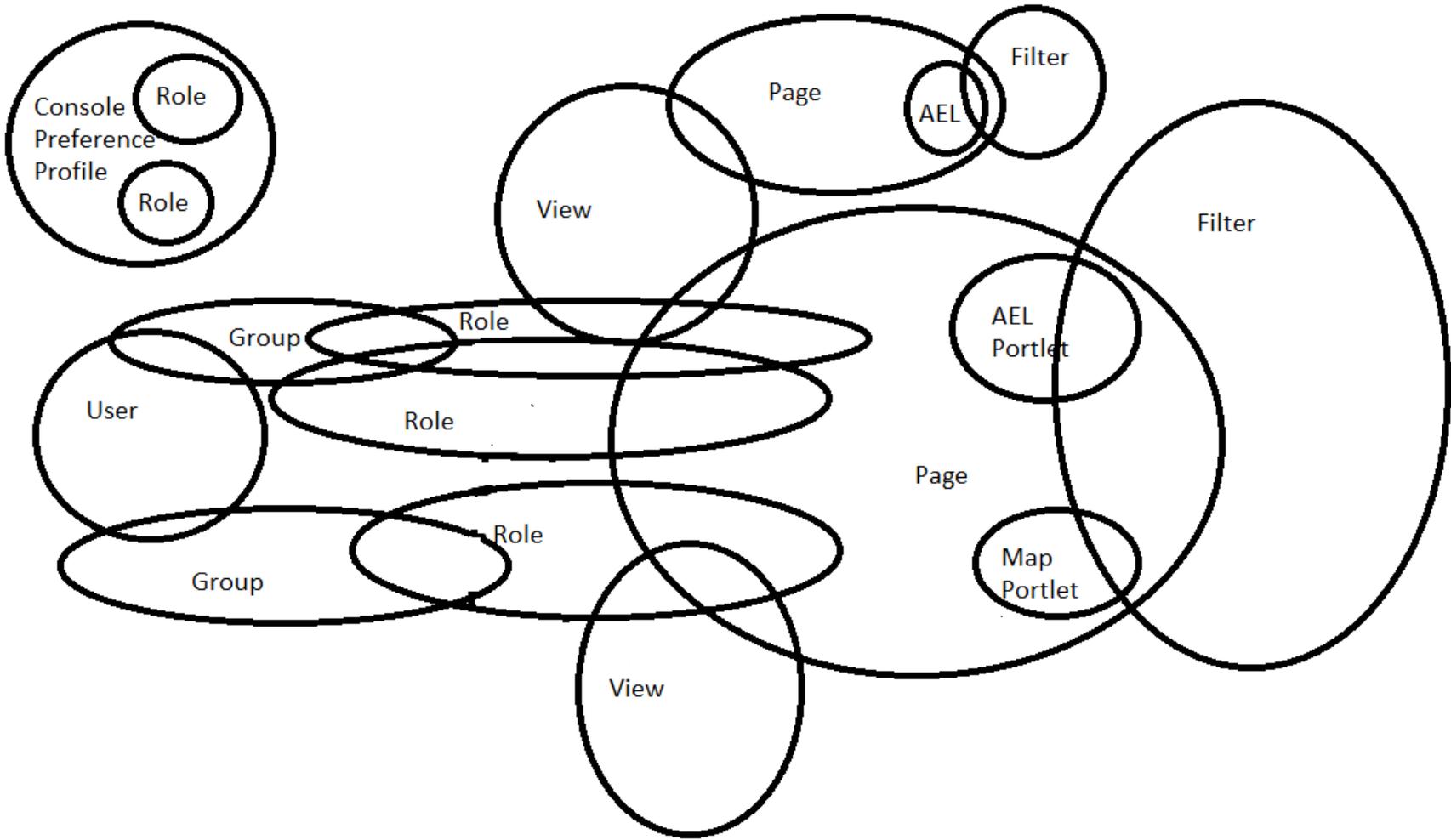
      <monitor name="Central_Client_AEL" label="Clients" x="297" y="554" action="ael"
        target="_blank" filter="Central_Client" filtertype="global" w="100" h="100"
        type="histogram" show_label="true" show_total="false" show_highest="false"
        show_lowest="false" show_metric="false" foreground_color="black"
        background_color="lightGray" font="Helvetica" size="10" style="p"
        show_highest_severity_as_border="false" />

      <button name="Central_Client_Button" label="Critical Client" x="403" y="491" action="lcl"
        target="_blank" filter="Central_Client_Crit" filtertype="global" w="100" h="30"
        type="rectangle" arc_diameter="20" transparent="false" legend="Label"
        font="Helvetica" size="12" font_color="black" style="b"/>

    </map>
  </method>
</methodCall>

```

Conceptual Diagram of build requirements



Pages, Views, Console Preference Profiles

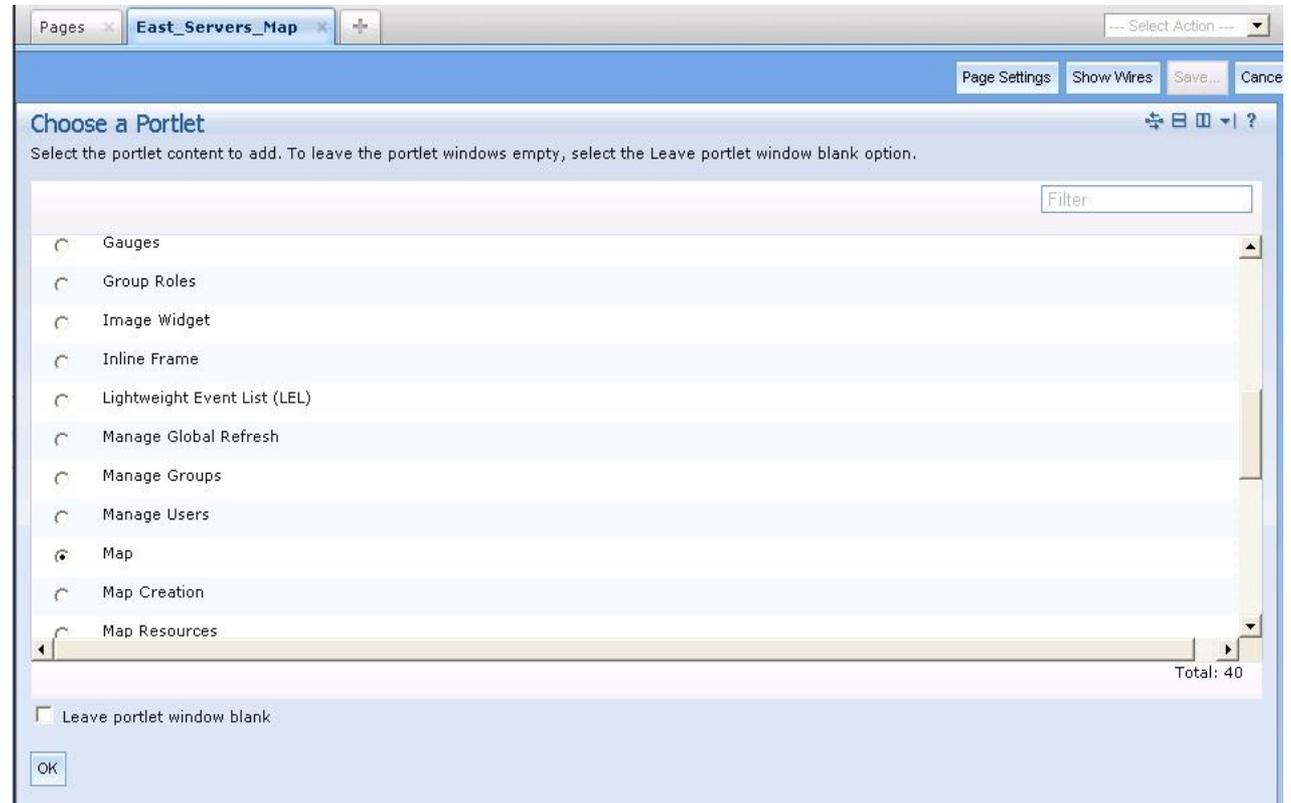
■ Create a Map Page

- [-] Settings
 - WebSphere Administrative Cor
 - User Preferences for Tivoli Net
 - Pages
 - Views
 - Catalogs
 - Portlets
 - Console Preference Profiles
 - Manage Global Refresh
 - Credential Store
 - Change Password
 - Export Wizard
 - Connections
 - newpage



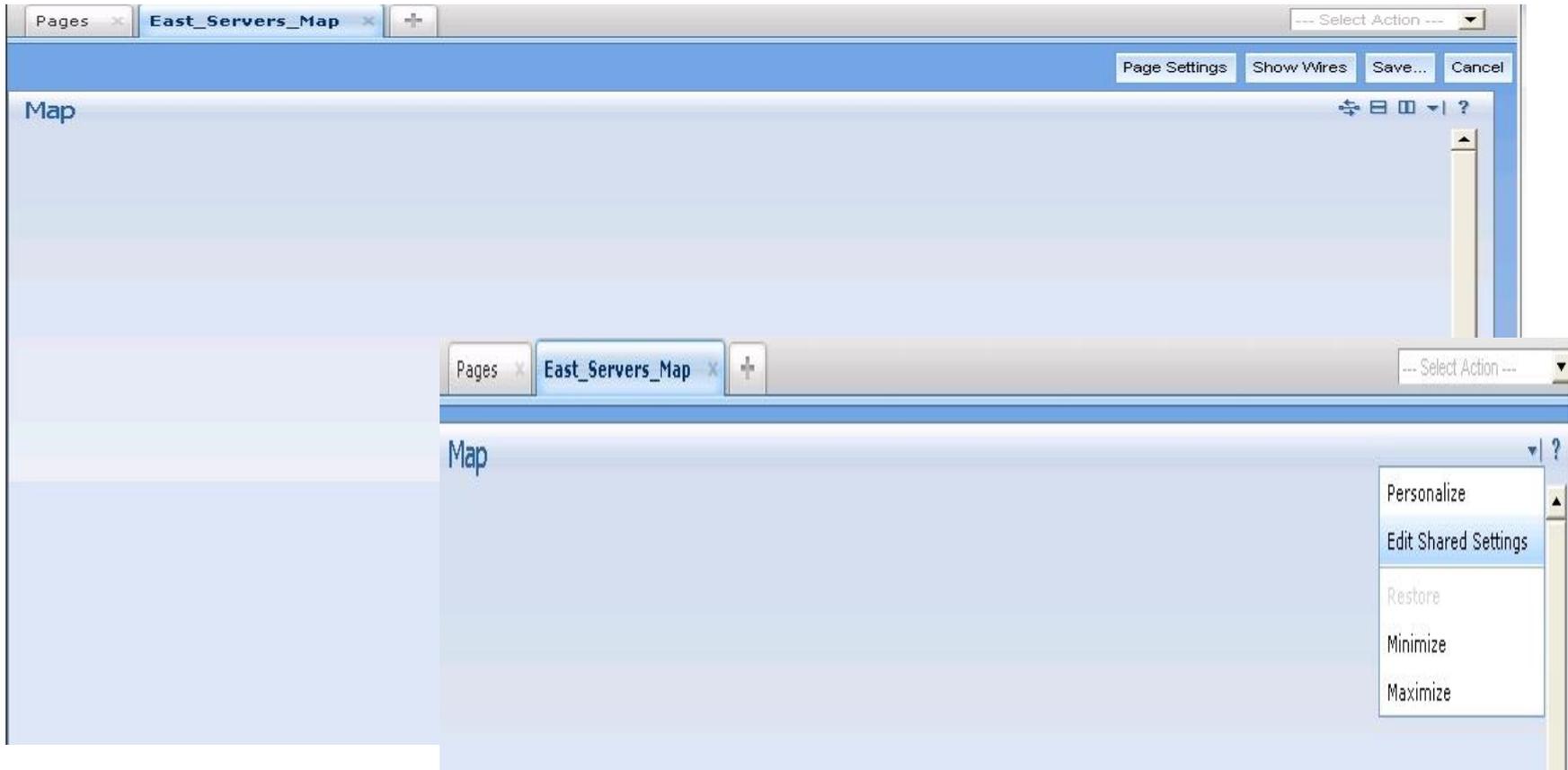
Pages, Views, Console Preference Profiles

■ Create a Map Page Continued



Pages, Views, Console Preference Profiles

■ Create a Map Page Continued



Pages, Views, Console Preference Profiles

■ Create a Map Page Continued

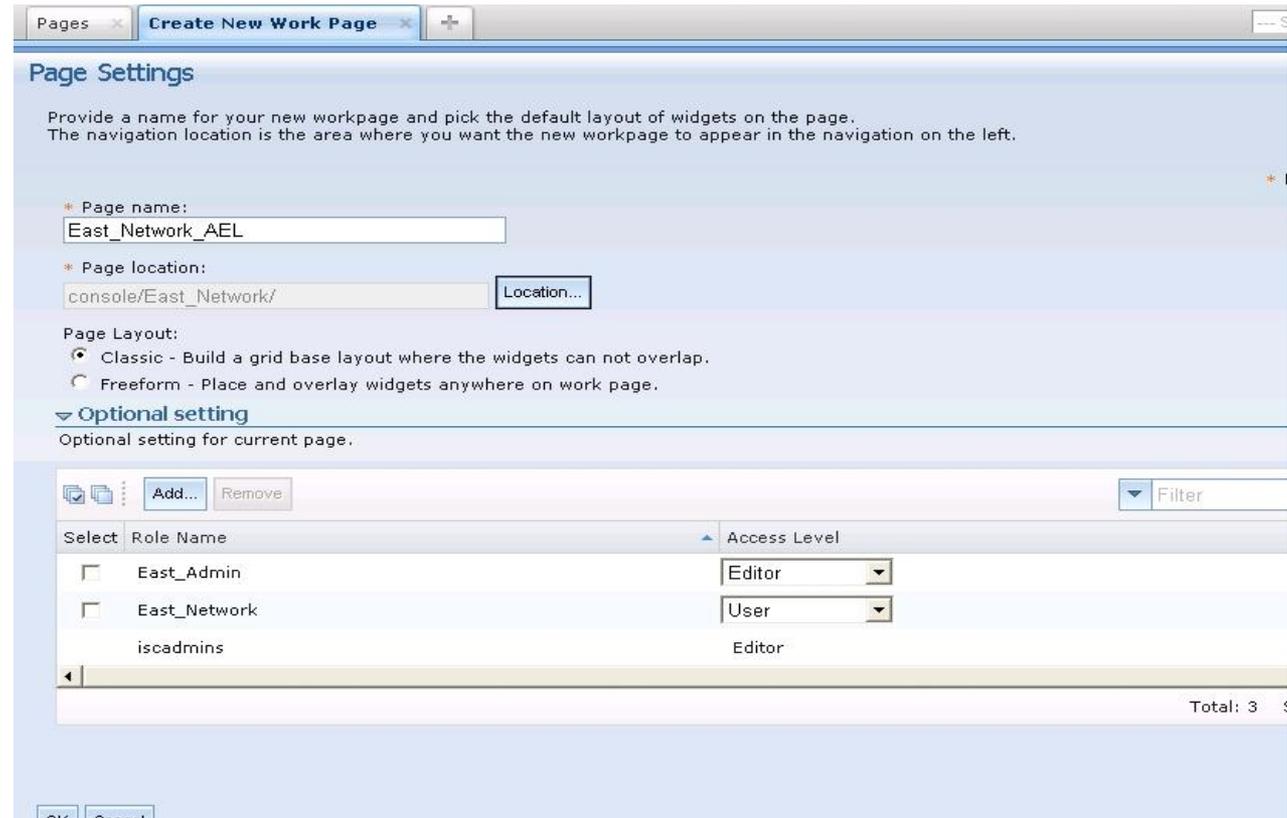
The screenshot shows a web application interface with a map of the Eastern United States. The map displays several network components: a blue router icon labeled 'Router', a grey network switch icon labeled 'network switch', a thin client icon labeled 'thin client', and a stack of server icons labeled 'stacked servers'. A small bar chart titled 'Servers' is also visible in the bottom right corner of the map area, showing three bars with values approximately 300, 150, and 100. The 'Map - Edit Preferences' dialog box is open on the right, with the following settings:

General Settings	
Map name:	Servers_East
Sound URL:	
Refresh rate (in seconds):	
Enable hover help for active objects:	<input checked="" type="checkbox"/>
Show status bar:	<input checked="" type="checkbox"/>
Use Customizer:	<input checked="" type="checkbox"/>
Height:	500
Bidi Settings	
Component Direction:	Default
Text Direction:	Default

Buttons for 'OK' and 'Cancel' are located at the bottom of the dialog box.

Pages, Views, Console Preference Profiles

■ Create AEL Page



Pages, Views, Console Preference Profiles

■ Create AEL Page Continued

Pages x East_Network_AEL x +

Active Event List

Select	Name
<input checked="" type="checkbox"/>	NCOMS

Appearance of the AEL

Portlet Title:

Use Customizer:

Height:

Title Bar:

Menu Bar:

Tool Bar:

Filters and Views:

Summary Bar:

Status Bar:

Bidi Settings

Component Direction:

Text Direction:

OK Cancel

Pages x East_Network_AEL x +

Choose a Portlet

Select the portlet content to add. To leave the portlet windows empty, sel

Select	Portlet Entity Title
<input type="radio"/>	About Tivoli Netcool/OMNIBus Web GUI
<input checked="" type="radio"/>	Active Event List (AEL)
<input type="radio"/>	Catalogs
<input type="radio"/>	CGI Registry
<input type="radio"/>	Change Password
<input type="radio"/>	Chart View
<input type="radio"/>	Charting
<input type="radio"/>	Connections
<input type="radio"/>	Console Preference Profiles
<input type="radio"/>	Credential Store

Leave portlet window blank

OK

Pages, Views, Console Preference Profiles

■ Create AEL Page Continued

The screenshot shows the Tivoli Netcool/OMNIBUS console interface. On the left, a table titled 'East_Routers' displays a list of routers with their status and alert groups. On the right, a 'Choose a Portlet' dialog box is open, allowing the user to select content for the portlet. The 'Active Event List (AEL)' portlet is selected.

Sev	Ack	Node	Alert Group	Summary
!	No	E-router-117	Systems	Machine has gc
!	No	E-router-249	Systems	Machine has gc
!	No	E-router-396	Stats	Diskspace alert
!	No	E-router-288	Stats	Diskspace alert
!	No	E-router-111	Systems	Machine has gc
!	No	E-router-327	Systems	Machine has gc
!	No	E-router-207	Systems	Machine has gc
!	No	E-router-309	Systems	Machine has gc
!	No	E-router-399	Systems	Machine has gc
!	No	E-router-225	Systems	Machine has gc
!	No	E-router-129	Systems	Machine has gc
!	No	E-router-72	Stats	Diskspace alert
!	No	E-router-321	Systems	Machine has gc
!	No	E-router-222	Stats	Diskspace alert
!	No	E-router-297	Systems	Machine has gc
!	No	E-router-303	Systems	Machine has gc

0 rows inserted, 526 rows updated, and 0 rows deleted. Dat Qui Aut

Choose a Portlet
Select the portlet content to add. To leave the portlet windows empty, select the Leave portlet window blank option.

Filter

- Select
- Portlet Entity Title
- About Tivoli Netcool/OMNIBUS Web GUI
- Active Event List (AEL)
- Catalogs
- CGI Registry
- Change Password
- Chart View
- Charting
- Connections
- Console Preference Profiles

Total: 40

Leave portlet window blank

OK

Pages, Views, Console Preference Profiles

■ Create AEL Page Continued

The screenshot displays two panels in the AEL console interface:

- East_Routers Panel:**
 - Table with columns: Sev, Ack, Node, Alert Group, Summary.
 - Summary bar: 349 info, 56 warning, 121 critical, All Events (526).
 - Status: 0 rows inserted, 526 rows updated, and 0 rows deleted.
- East_Switches Panel:**
 - Table with columns: Sev, Ack, Node, Alert Group, Summary.
 - Summary bar: 567 info, 120 warning, 109 critical, 142 error, All Events (938).
 - Status: 938 rows inserted, 938 rows updated, and 0 rows deleted.

Pages, Views, Console Preference Profiles

■ Create Dashboard Page



Page Settings

Provide a name for your new workpage and pick the default layout of widgets on the page. The navigation location is the area where you want the new workpage to appear in the navigation on the left.

* Page name:

* Page location:

Page Layout:
 Classic - Build a grid base layout where the widgets can not overlap.
 Freeform - Place and overlay widgets anywhere on work page.

Optional setting

Optional setting for current page.

Select	Role Name	Access Level
<input type="checkbox"/>	East_Admin	Editor
<input type="checkbox"/>	East_Servers	User
	iscadmins	Editor



Pages, Views, Console Preference Profiles

■ Create Dashboard Page Continued

The screenshot displays the 'East_Servers_Dashboard' page in a web browser. The dashboard is titled 'Event Dashboard' and contains six portlets arranged in a 2x3 grid. Each portlet shows a total count, a highest severity level, a lowest severity level, and a metric value. A 'Choose a Portlet' dialog box is open on the right side of the screen, allowing the user to select content for the portlets. The dialog lists various options such as 'Charting', 'Connections', 'Console Preference Profiles', 'Credential Store', 'Event Dashboard', 'Event Database Query', 'Export Wizard', 'Filters', 'Gauges', and 'Group Roles'. The 'Event Dashboard' option is currently selected. There is also a checkbox for 'Leave portlet window blank' and an 'OK' button.

Portlet Name	Total	Highest	Lowest	Metric
AllEvents	7893	Critical	Indeterminate	2
Central	2231	Critical	Warning	2
Central_Client	531	Major	Warning	2
Central_Routers	635	Major	Warning	2
Central_Routers_Crit	-	-	-	-
Central_Servers	535	Major	Warning	2

Pages, Views, Console Preference Profiles

■ Create Dashboard Page Continued

Edit Event Dashboard Preferences

AEL Behaviour

Event list single-click action: <none>

Event list double-click action: Information

AEL Appearance

Title Bar

Menu Bar

Tool Bar

Filters & Views

Summary Bar

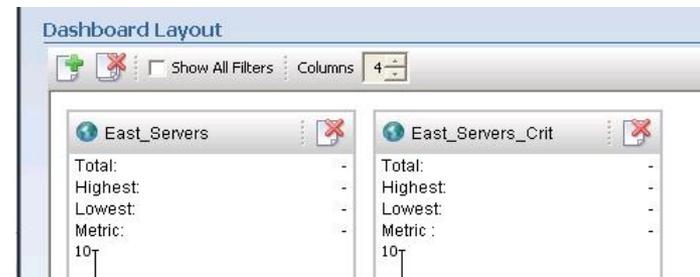
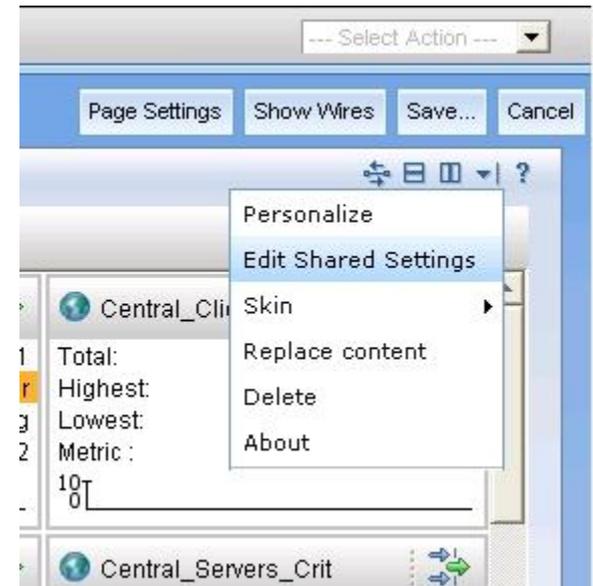
Status Bar

Bidi Settings

Component Direction: Default

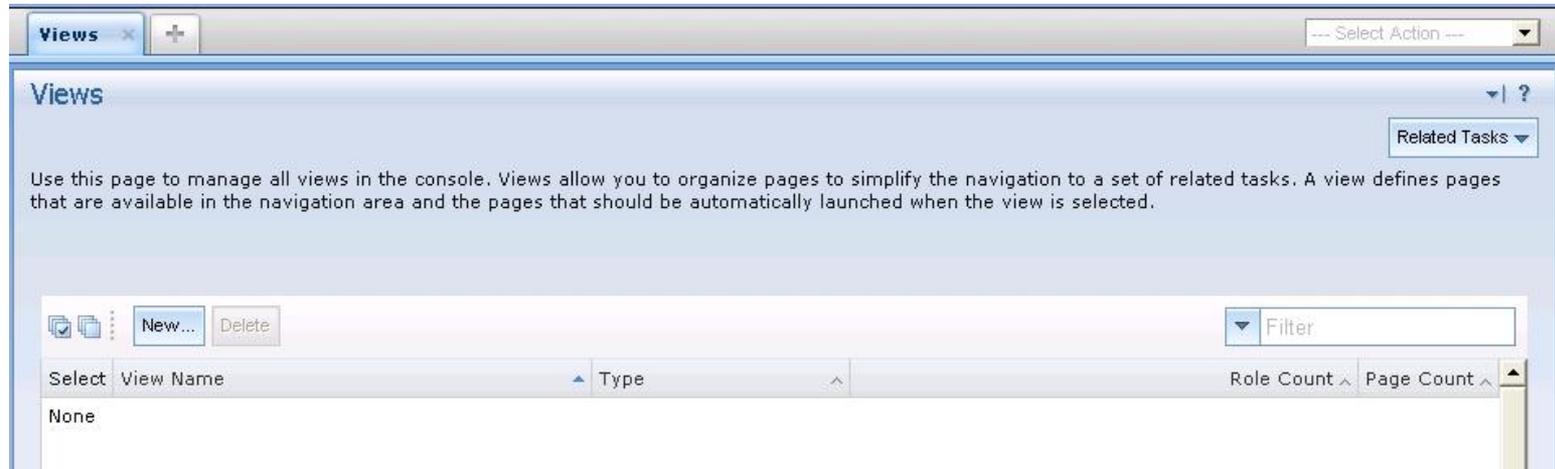
Text Direction: Default

OK Cancel Reset to Defaults



Pages, Views, Console Preference Profiles

■ Create View



Pages, Views, Console Preference Profiles

■ Create View Continued

Views x +

General Properties

* View name:

Hide any open pages in the work area that are not part of this view

Type of view:

View unique name:

Roles with Access to This View: 3
This section lists the roles with access to this view.

Select	Role Name	Access Level
<input type="checkbox"/>	East_Admin	Editor
<input type="checkbox"/>	East_Servers	User
	iscadmins	Editor

Views x +

Views > New View > Add Pages

Available Pages

Select one or more pages you want to add to this view.

Select	Page Name	Type	Unique Name
<input type="checkbox"/>	Welcome	Core	com.ibm.isclite.IS
<input type="checkbox"/>	My Startup Pages	System	com.ibm.isclite.pr
<input type="checkbox"/>	+ Users and Groups	System	com.ibm.wim.ma
<input type="checkbox"/>	+ Settings	System	com.ibm.isc.com
<input type="checkbox"/>	+ Administration	System	com.ibm.sysmgr
<input type="checkbox"/>	+ Availability	System	com.ibm.sysmgr
<input type="checkbox"/>	+ Troubleshooting and Support	System	com.ibm.sysmgr
<input checked="" type="checkbox"/>	+ East_Servers	Custom	label.RG2hOMKd

Pages, Views, Console Preference Profiles

■ Create Console Preference Profile

Views × Console Preference Profiles × +

Console Preference Profiles

Console Preference Profiles > New Preference Profile

General Properties

* Preference profile name:

Preference profile unique name:

Theme:

Navigation tree options

Show navigation tree
 Hide navigation tree

Taskbar options

Show action selector
 Hide action selector

Console Bidirection Options

Component direction:

Text direction:

Console view options

Settings

- WebSphere Administrative Cor
- User Preferences for Tivoli Net
- Pages
- Views
- Catalogs
- Portlets
- Console Preference Profiles
- Manage Global Refresh
- Credential Store
- Change Password
- Export Wizard
- Connections
- newpage

Pages, Views, Console Preference Profiles

■ Create Console Preference Profile Continued

Required view (at least one required view must be selected)

- All tasks
- System and custom views
- Core views
- My tasks

▼ Roles Using This Preference Profile: 1

This section lists the roles that have access to this preference profile. If multiple views are available in this profile, then a default view

Add... Remove Filter

Select	Role Name
<input type="checkbox"/>	East_Servers

Total: 1 Selected: 0

Default console view
Default view: East_Servers

Save Cancel

Completed



Completed

The screenshot shows the Tivoli Netcool/OMNIBus Web GUI interface. The top navigation bar includes the Tivoli logo, a 'View:' dropdown menu set to 'All tasks', and a welcome message 'Welcome sys_admin'. The left sidebar contains a tree view of navigation items, including 'Welcome', 'My Startup', 'Users and...', 'Settings', 'Administr...', 'Availability', 'Troubleshooting and Support', 'East_Servers', 'East_Clients', 'West_Clients', 'Central_Clients', 'Central_Servers', 'West_Servers', 'Central_Network', 'East_Network', 'West_Network', and 'Executive'. The 'All tasks' dropdown menu is open, listing the following options: 'All tasks', 'East_Servers', 'East_Clients', 'East_Network', 'West_Network', 'West_Clients', 'West_Servers', 'Central_Clients', 'Central_Servers', 'Central_Network', and 'Executive'. The main content area displays 'About Tivoli Netcool/OMNIBus Web GUI' with a 'Version Information' section.

The screenshot shows the Tivoli Netcool/OMNIBus Web GUI interface. The top navigation bar includes the Tivoli logo, a 'View:' dropdown menu set to 'Central_Clients', and a welcome message 'Welcome c_admin_noc'. The left sidebar contains a tree view of navigation items, including 'Central_Clients', 'Central_Servers', and 'Central_Network'. The 'Central_Clients' dropdown menu is open, listing the following options: 'Central_Clients', 'Central_Servers', and 'Central_Network'. The main content area displays 'About Tivoli Netcool/OMNIBus Web GUI' with a red graphic below the title.

Questions?