Esri Geoportal Server LiveDVD Demo 2013

This document gives step-by-step instructions for creating the Esri Geoportal Server LiveDVD Demo 2013. The files needed to complete this are located at [\\esri.com\toybox\departments\Marketing\RichardKachelriess\Geoportal\LiveDVD\2013](file:///\\esri.com\toybox\departments\Marketing\RichardKachelriess\Geoportal\LiveDVD\2013).

# System Requirements

Standard Esri issued desktop/laptop running Windows 7

# Create an Account on SUSE Studio

1. Go to [www.susestudio.com](http://www.susestudio.com) and create an account (or log in if you already have an account).
2. Log in to new account (if necessary) and go to the Home page.

# Create SUSE Studio Appliance

1. On the Home page, under Actions, click Create new appliance…
2. For base template, select “KDE 4 desktop” under “openSUSE 12.3”.
3. Scroll to bottom of page.
4. Make sure architecture stays at “32-bit”
5. Change name of the appliance to “Esri Geoportal Server LiveDVD Demo 2013”.
6. Click the “Create appliance” button

# Customize SUSE Studio Appliance

1. After clicking the “Create appliance” button, the customization site for the appliance should open automatically. If it doesn’t, go the “Home” screen and click on the appliance under “Your appliances”>”Private appliances”

## Software Tab

1. Click the Software tab
   1. Under Software sources, click “Add repositories”
   2. At the top right of the “Add and remove repositories” page, click “Import new repository…”
   3. Make sure “Add an OpenSUSE Build Service project repository” is selected.
   4. For “Project name:” use “home:rkachelriess”
   5. It will go back to the Software tab and, after some processing, “home:rkachelriess 12.3” should not be included under “Software sources”
      1. This repository contains packages related to branding of the appliance.
   6. Using the “Search for software” tool, add the following packages from the associated repositories.
      1. Packages from the home:rkachelriess 12.3 will require you to specify the source repository. To change the Repository, click the cascading windows icon to the right of the Version number and then click the “add” icon next to the home:rkachelriess 12.3 repository.

| Package Name | Repository | Use |
| --- | --- | --- |
| atmel-firmware | openSUSE 12.3 OSS | Wireless card firmware and drivers |
| grub | openSUSE 12.3 OSS | Boot loader |
| ipw-firmware | openSUSE 12.3 OSS | Wireless card firmware and drivers |
| java-1\_7\_0-openjdk-devel | openSUSE 12.3 Updates | Java SDK/JDK for Tomcat |
| kdelibs4-branding-openSUSE-12.2-11.15.1 | home:rkachelriess 12.3 | Branding updates |
| kdm-branding-openSUSE-12.2-11.15.1 | home:rkachelriess 12.3 | Branding updates |
| kernel-firmware | openSUSE 12.3 OSS | Hardware firmware and drivers |
| ksplashx-branding-openSUSE-12.2-11.15.1 | home:rkachelriess 12.3 | Branding updates |
| MozillaFirefox | openSUSE 12.3 Updates | Web Browser |
| MozillaFirefox-branding-upstream | openSUSE 12.3 Updates | Branding updates |
| mysql-community-server | openSUSE 12.3 OSS | MySQL Database |
| plymouth-branding-openSUSE-12.2-11.15.1 | home:rkachelriess 12.3 | Branding updates |
| sudo | openSUSE 12.3 Updates | Allows users to execute root commands |
| susegreeter-branding-openSUSE-12.2-11.15.1 | home:rkachelriess 12.3 | Branding updates |
| tomcat | openSUSE 12.3 OSS | Tomcat web servlet container |
| wireless-tools | openSUSE 12.3 OSS | Tools for wireless connections |
| yast2-live-installer | openSUSE 12.3 OSS | Installs appliance to computer’s hard drive |
| yast2-sudo | openSUSE 12.3 OSS | Sudo capabilities to Yast |

## Configuration Tab

1. Click the General heading icon
   1. Under Network, select “Use NetworkManager to configure the network at run-time”
   2. Under the Users and groups section
      1. Change root user password to “geoportal”
      2. Add the following new users

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Login | UID (optional) | Password | Group | Home directory | Shell |
| geoportal |  | geoportal | wheel | /home/geoportal | /bin/bash |
| tomcat |  | tomcat | tomcat | /home/tomcat | /bin/bash |

1. Click the Configuration heading icon
   1. Under Appliance logo, click “Upload new logo…”
      1. Upload the “Geoportal\_esri\_link.png” file.
      2. Click the new Esri logo icon to select it.
   2. Under Appliance background, click “Upload new background…”
      1. Upload the 1280x1024.jpg file.
      2. Click the new background image to select it.
   3. Confirm that the Preview section shows the correct icon and background.
2. Click the Desktop heading icon
   1. Check “Automatically log in user…” and make sure the “geoportal” user is selected from the dropdown menu.
   2. In the Autostart desktop programs, click “Add new autostart program…” and add the following

|  |  |  |  |
| --- | --- | --- | --- |
| Command | Start for user | Comment (optional) | Enabled |
| firefox http://localhost:8080 | geoportal | Starts Firefox and Goes to Informational Homepage | Checked |

1. Click the Appliance heading icon
   1. Under the “Disk and memory” section, increase “Memory:” to 2048
2. Click the Scripts heading icon
   1. Check the “Run script at the end of the build”.
   2. Scroll to the bottom of the script.
   3. Click on last line of the script (line 18)
   4. Open End\_Of\_Build.txt file in Notepad
      1. Select All (Ctrl+a) and copy (Ctrl+c)
   5. Paste text into end of build script
      1. The added text should take up lines 18 – 51.
   6. Click outside the text box to save the changes.

## Files Tab

1. Click the Files tab
   1. Upload and configure the files to the appliance following the table below.
      1. To make changes, click the box to the left of the Name, then follow the below:
         1. Dirctory: Click “Move / Rename” the change “Path”
         2. Owner/Group and Permissions: Click “Edit details”
            1. Codes for “Octal:” to set permissions

rwxrwxrwx: 777

rw-r--r--: 644

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Directory | Extract | Size | Owner/Group | Permissions |
| Desktop.tar.gz | /usr/local/ | Yes | 1.3 KB | root / root | rwxrwxrwx |
| esri\_icons.tar.gz | /usr/share/icons/ | Yes | 19.7 KB | root / root | rwxrwxrwx |
| geoportal\_webapps.tar.gz | /srv/tomcat/ | Yes | 42.4 MB | tomcat / users | rwxrwxrwx |
| license.tar.gz | / | No | 1.6 KB | root / root | rwxrwxrwx |
| mysql\_connector.tar.gz | /usr/share/java/tomcat/ | Yes | 789.6 KB | tomcat / nobody | rwxrwxrwx |
| share.tar.gz | /usr/local/ | Yes | 1001.1 KB | root / root | rwxrwxrwx |
| tomcat\_conf.tar.gz | /var/cache/tomcat/Catalina/localhost/ | Yes | 500 Bytes | tomcat / nobody | rwxrwxrwx |
| 00-defaultLayout.js | /usr/share/kde4/apps/plasma-desktop/init/ | NA | 622 Bytes | root / root | rwxrwxrwx |
| 1280x1024.jpg | /usr/share/wallpapers/openSUSEdefault/contents/images | NA | 68.7 KB | root / root | rw-r--r-- |
| 1600x1200.jpg | /usr/share/wallpapers/openSUSEdefault/contents/images | NA | 108.3 KB | root / root | rw-r--r-- |
| 1920x1080.jpg | /usr/share/wallpapers/openSUSEdefault/contents/images | NA | 125.4 KB | root / root | rw-r--r-- |
| 1920x1200.jpg | /usr/share/wallpapers/openSUSEdefault/contents/images | NA | 143.1 KB | root / root | rw-r--r-- |
| 2560x1600.png | /usr/local/ | NA | 404.4 KB | root / root | rwxrwxrwx |
| localhost.sql | /usr/local/ | NA | 187.9 KB | root / root | rwxrwxrwx |
| screenshot.jpg | /usr/share/wallpapers/openSUSEdefault/ | NA | 24 KB | root / root | rw-r--r-- |
| screenshot.png | /usr/local/ | NA | 288.7 KB | root / root | rwxrwxrwx |

## Build Tab

1. Click the Build tab.
   1. For “Default format:” select “Live CD/DVD (.iso)” from dropdown menu.

# Build LiveDVD .ISO

1. In the Build tab, click the “Build” icon.
   1. Building the .iso will take at least 10 minutes.
   2. The completed build will be listed on the bottom half of the screen.
2. To download the .ISO, click “Download” on the right side of the entry.
   1. To get the MD5 checksum, click “View MD5 checksum” at the bottom of the page.