Sanickiosk 1.2.1

A free, turn-key web kiosk



# WHAT IS SANICKIOSK?

Sanickiosk is a free, turn-key web kiosk which can be used in public or business spaces to provide internet or intranet services. It can be used for open or filtered web browsing, can play Adobe flash, and display PDF documents.

It is intended for easy installation and administration by users with minimal technical knowledge. Installation takes only a few minutes, and everything is customizable right from the browser.

This guide also includes instructions for advanced topics, like how to create a customized Sanickiosk ISO (useful when deploying to multiple machines) and how to build Sanickiosk from scratch using the detailed source code and a Debian-based Linux distribution of your choice.

Sanickiosk was originally created by a librarian and open source enthusiast for use accessing a public library’s online catalog. Standing on the shoulders of giants, it brings together a number of amazing projects: the operating system is [Ubuntu](http://www.ubuntu.com/) Linux, the web browser is a Mozilla Firefox derivative called [Open Kiosk](https://www.mozdevgroup.com/products/openkioskdistro.html), the browser-based system administration tool is [Ajenti](http://ajenti.org/), the browser-based remote administration tool is [Guacamole](http://guac-dev.org), and the customized installation image maker is [Mondo Rescue](http://mondorescue.org/).

If you elect to use Sanickiosk you are encouraged to make a donation to any or all of the projects listed above (and to your local library).

I would be very interested in hearing how Sanickiosk is being used and by whom so please [email me](http://scr.im/godzilla8nj) feedback. Also let me know if you discover a bug, think of an improvement, or run into any trouble.

Enjoy!

*Scott “the brute-force librarian” Sanicki*

*February 2014*

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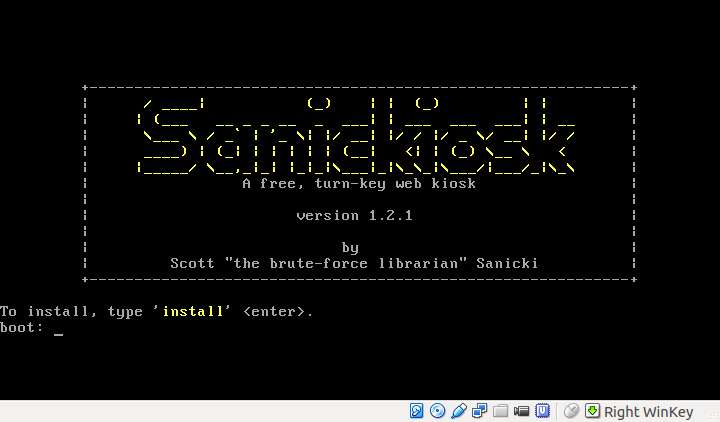
# INSTALLING SANICKIOSK

For convenience Sanickiosk is available for download as a preconfigured and ready-to-install ISO image.

The latest version of Sanickiosk may be downloaded from <http://links.sanicki.com/sanickiosk-dl>, or using BitTorrent from <http://links.sanicki.com/sanickiosk-torrent> (please seed).

After downloading the image, create an installation DVD from the ISO. (Windows users may find instructions [here](http://windows.microsoft.com/en-us/windows7/burn-a-cd-or-dvd-from-an-iso-file).)

Make sure the BIOS of the machine is [configured to boot from DVD](http://www.howtogeek.com/129815/beginner-geek-how-to-change-the-boot-order-in-your-computers-bios/). With the DVD inserted in the internal DVD drive (or an external DVD drive connected by USB) power on the target machine.



Type **install** when prompted to overwrite the machine’s existing operating system with Sanickiosk. Installation time varies by hardware but should only take a few minutes.

After the installation completes remove the DVD. When you are asked to type ‘exit’ type **reboot** instead.



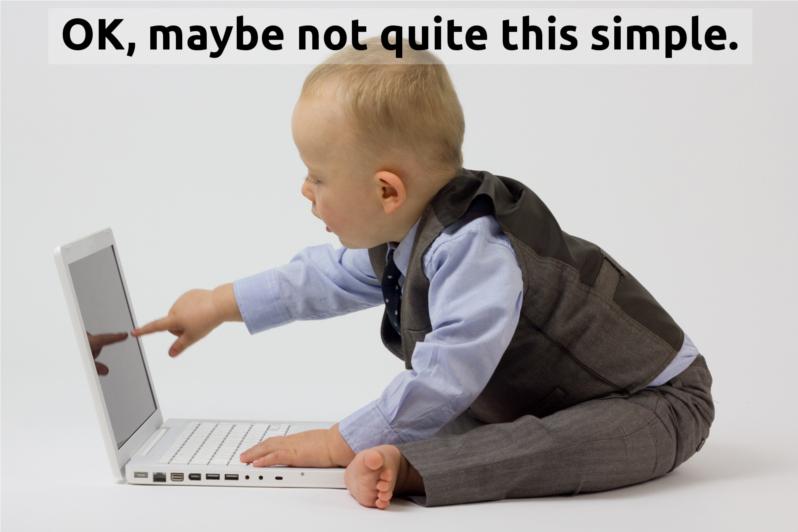
**BUG FIX:** If the install completed but fails to allow you to continue, simply press and hold the power button on the machine then reboot it without the DVD.

When you restart the computer Sanickiosk will be installed. Press **Enter** when you see the **GNU GRUB** menu (you will only have to do that this first time).



# USING SANICKIOSK

Sanickiosk is simple to customize for your organization. Everything is done right from the browser. Just follow the instructions in this document.



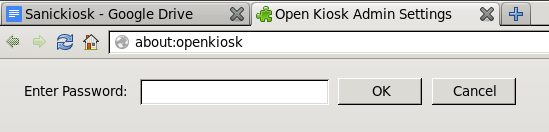
There are two user levels: *kiosk* and *administrator*. As the names indicate, the *kiosk* user is limited to editing features of the kiosk (like the homepage and the screensavers) while the *administrator* also has the ability to change network settings, update the underlying operating system, and access the kiosk remotely.

## 

## OPEN KIOSK: THE LOCKED-DOWN WEB BROWSER

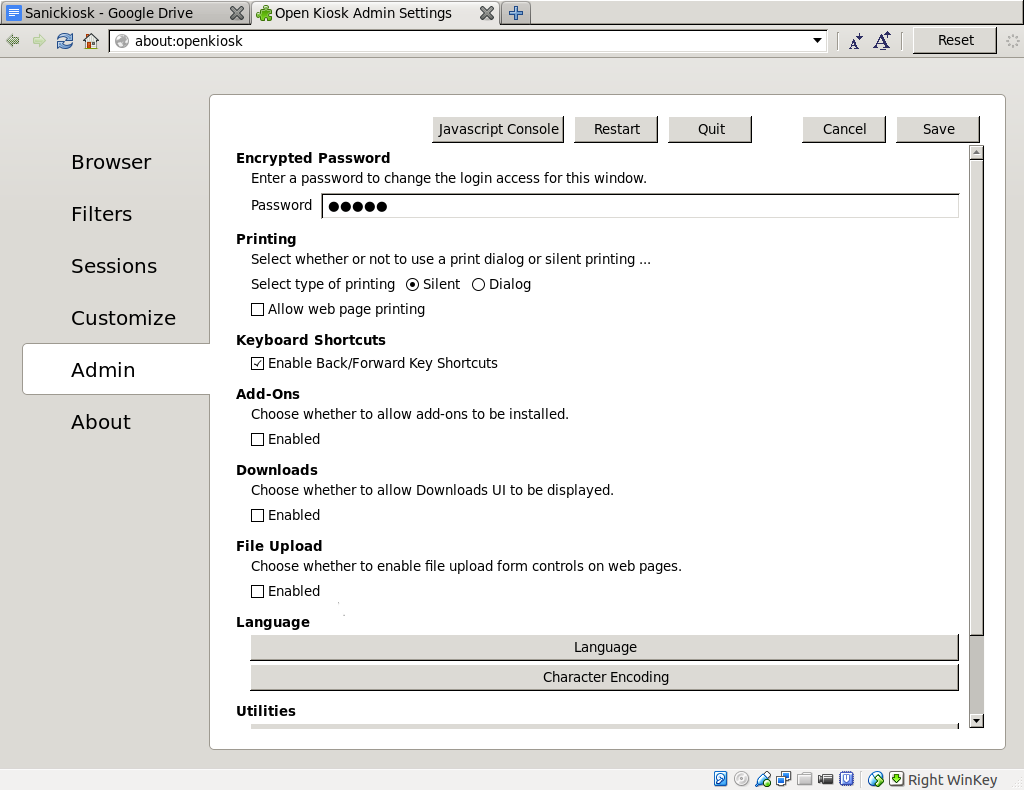
*The Open Kiosk web browser was designed by the* [*Mozdev Group*](https://www.mozdevgroup.com/) *originally for use on web kiosks at the Brooklyn Museum, the second-largest art museum in New York City and one of the largest in the United States. It is a heavily modified Firefox browser designed for kiosk use.*

To enter the Open Kiosk configuration settings press **Ctrl+Shift+1** then log in. The default password is *kiosk*, but should be changed immediately.



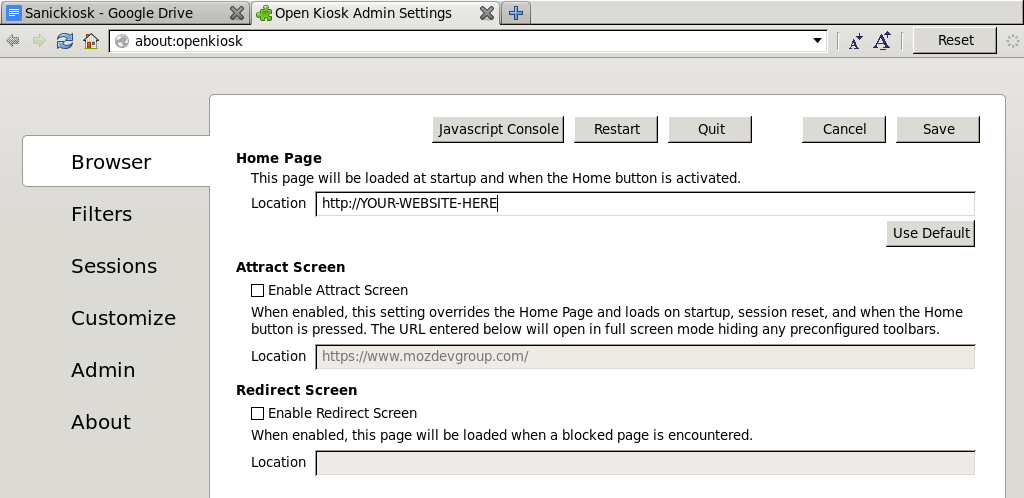
### CHANGING THE PASSWORD

*It is advised to always make the Open Kiosk password the same as* [*the kiosk user’s password*](#_fkeeycb21brs)*.*

To change the Open Kiosk password select the **Admin** tab. Enter the new password under **Encrypted Password**, then click the **Save** button.

### SETTING THE HOME PAGE

To change the Open Kiosk home page click the **Browser** tab. Enter the URL under **Home Page** then click the **Save** button.



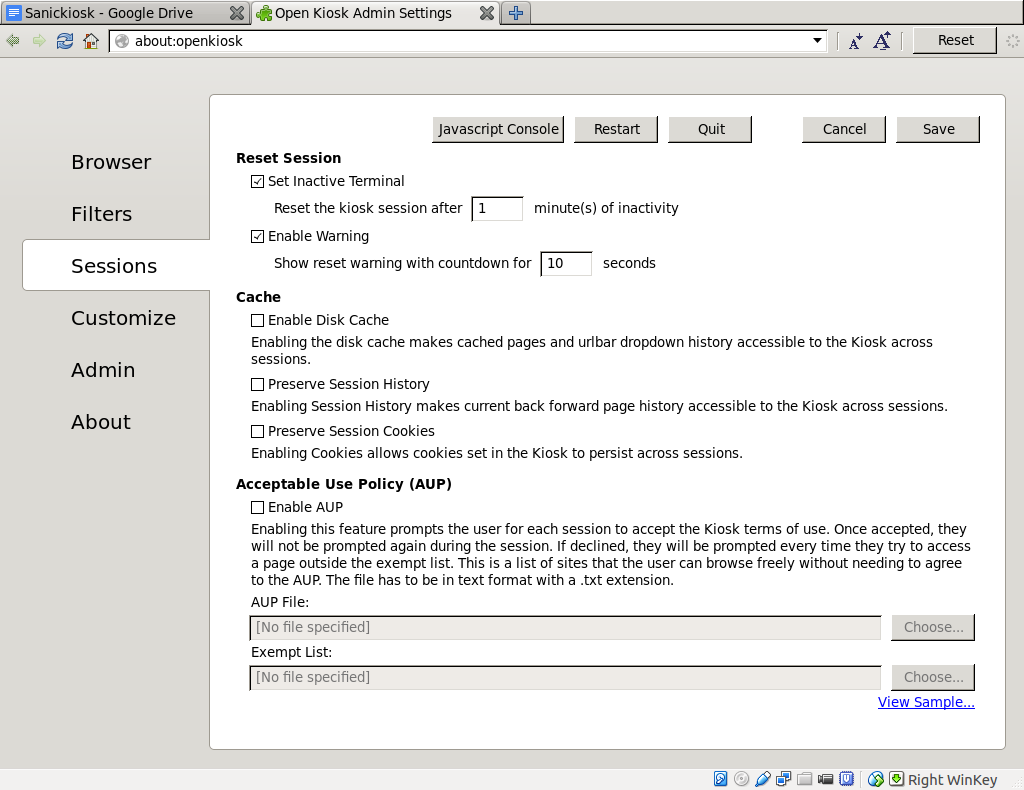
**NOTE:** Unlike standard Firefox, Open Kiosk does not currently support multiple home pages (e.g. http://google.com|http://youtube.com).

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### SETTING THE INACTIVITY TIMEOUT

By default Open Kiosk will automatically reset to the home page after 1 minute of inactivity, with a 10 second warning.

The times may be modified or the features disabled on the **Sessions** tab under **Reset Session**. Remember to click the **Save** button after making any changes.



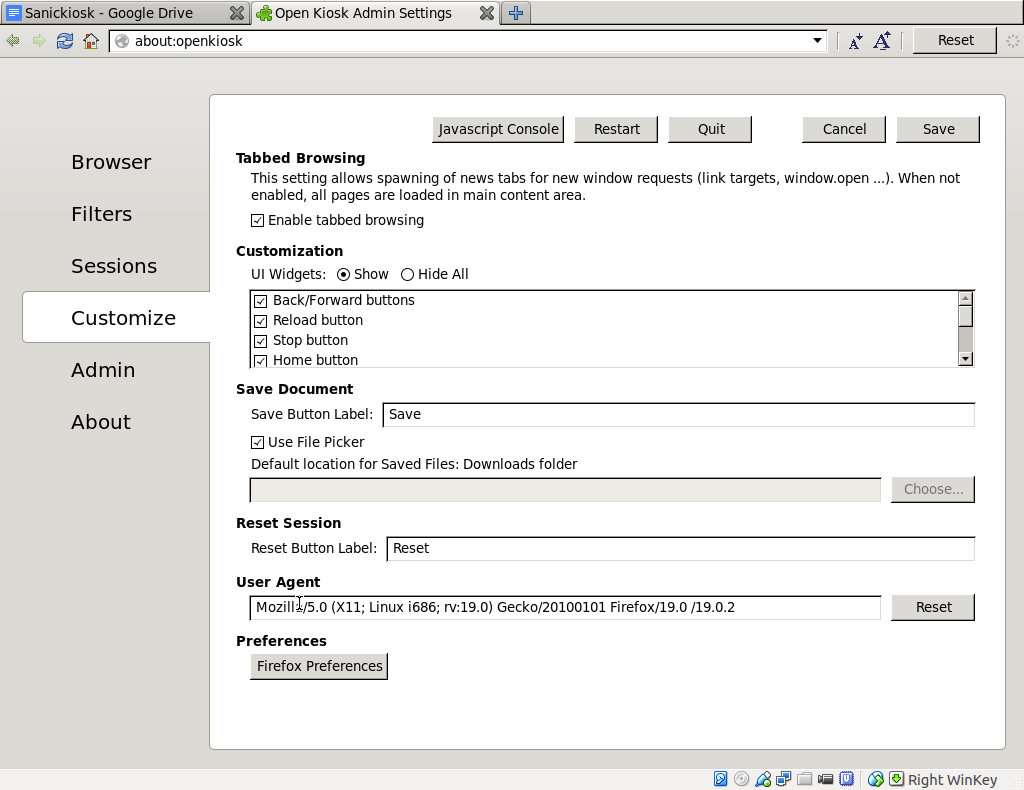
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### ADDING/REMOVING BROWSER BUTTONS AND FEATURES

By default the browser’s **Back/Forward** buttons, the **Reload** button, the **Stop** button, the **Home** button, and the **Location Bar** are visible, as well as **Zoom** controls for making everything larger or smaller.

Buttons and features may be added or removed by ticking or unticking them on the **Customize** tab under **Customization**.



You will likely want to hide the **Location Bar**.

Click the **Save** button then the **Restart** button to apply any changes.

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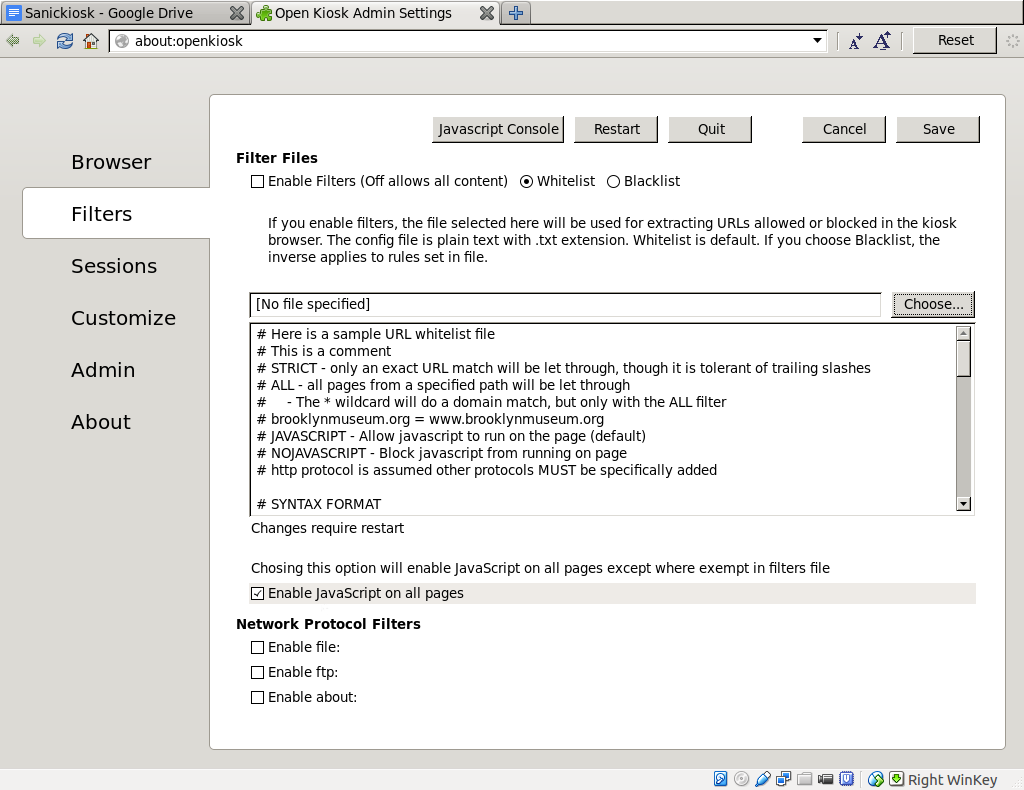
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### ENABLING/DISABLING FILTERING

Filtering is generally best left to your Network Administrator. However, if your organization is too small to have one you may find Open Kiosk’s built-in filtering helpful.

**NOTE:** You cannot create a filter list from Open Kiosk, only select the list you wish to use. Creating a filter must be done [using the Notepad function in Ajenti](#_2gm4x0ov9kot).

Select the **Filters** tab and tick **Enable Filters**. Selecting **Whitelist** means only the websites in your list will be allowed. Conversely, **Blacklist** means only the websites in your list will be blocked.



Next click the **Choose...** button and select your desired filter from **/home/kiosk/filters**.

Remember to click the **Save** button if you make any changes.

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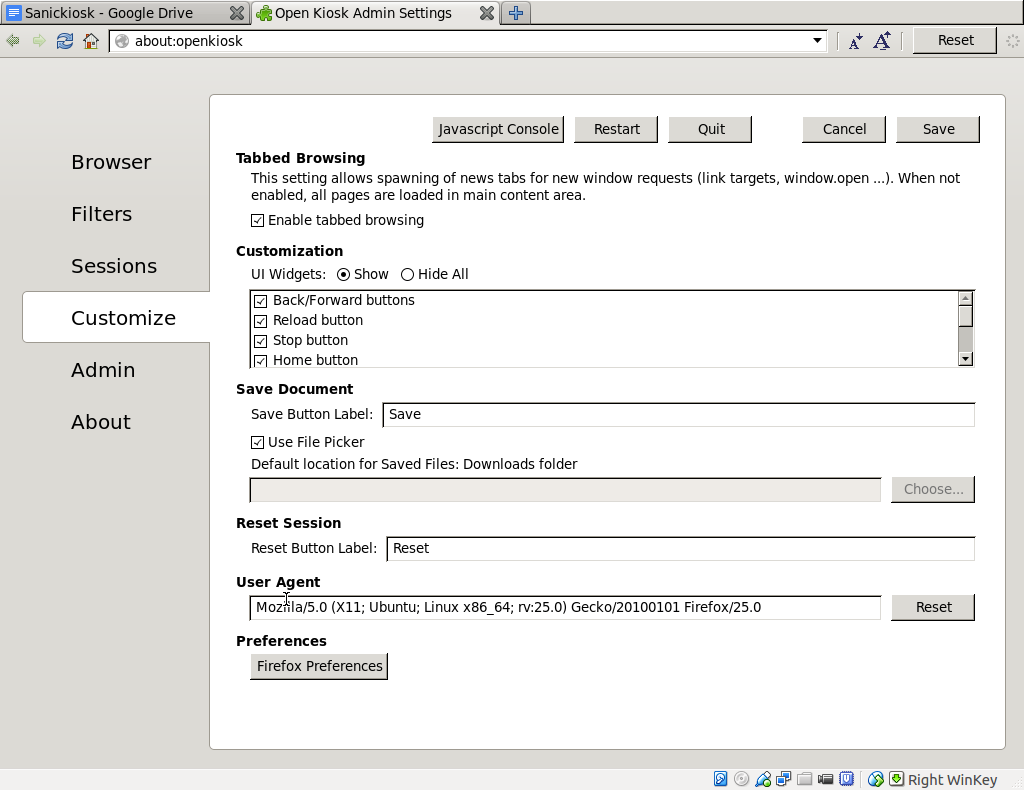
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### CHANGING THE USER AGENT

Open Kiosk is a modified Firefox version 19.02 browser. On some websites this may trigger an alert that the browser is out-of-date, although it is not.

To fix this issue simply copy the latest user agent string for Ubuntu from [this page](http://www.useragentstring.com/pages/Firefox/).

Paste it on the **Customize** tab under **User Agent**, then click the **Save** button, then finally the **Restart** button.



Now Open Kiosk will identify itself as the latest version of Firefox.

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### MORE OPEN KIOSK FEATURES

Open Kiosk offers many additional features not covered in this guide. Many are self-explanatory however if you need assistance you may contact [me](#_mlzuvm8q21d3) or [the Mozdev Group](mailto:kiosk@mozdevgroup.com).

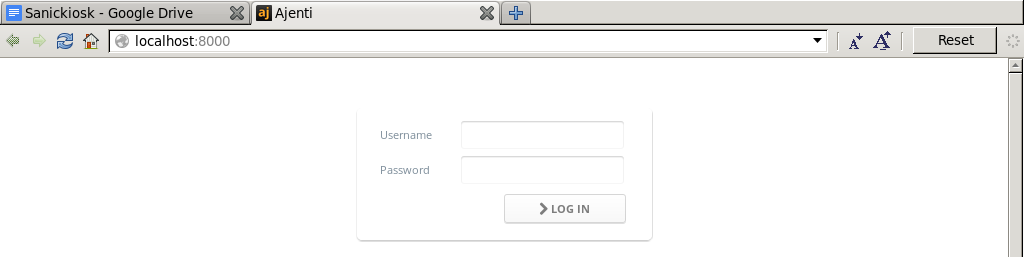
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## AJENTI: THE BROWSER-BASED SYSTEM ADMINISTRATION TOOL

*Ajenti is a browser-based, feature-rich system administration tool for Linux.*

To log in to Ajenti press **Ctrl+Shift+2**.



The default password of the *kiosk* user is *kiosk* and the default password of the *administrator* is *password*. These should be changed immediately!

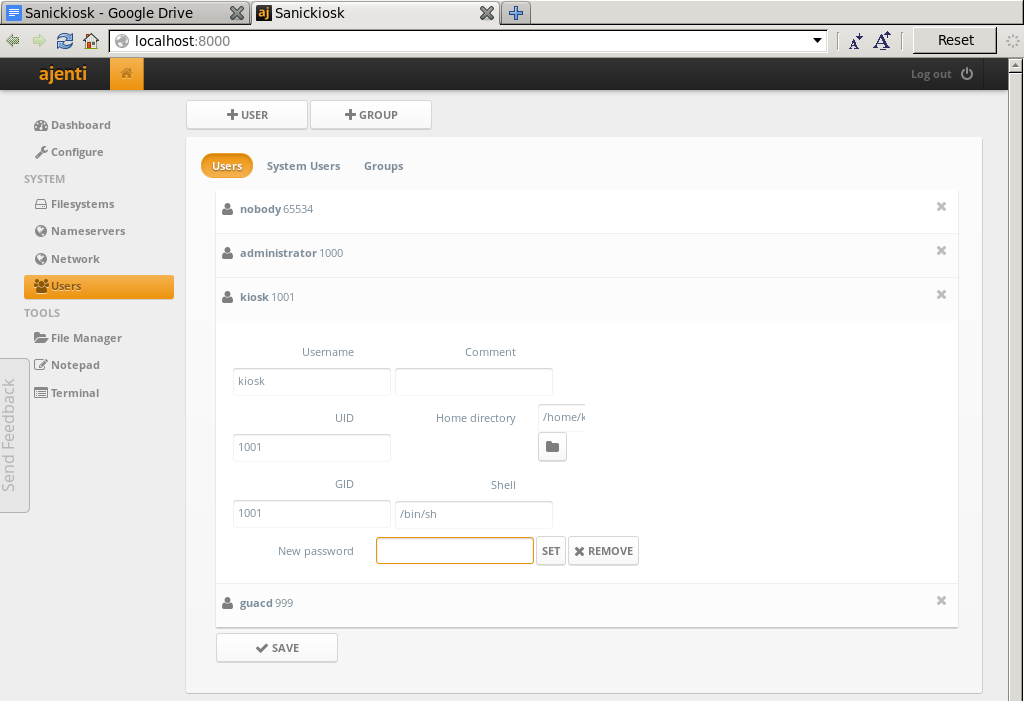
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### CHANGING USER PASSWORDS

*Only administrator may change user passwords.*

Navigate to **Users** under **SYSTEM**. In the **User** tab click the silhouette next to the user whose password you wish to change.



After entering the new password click the **SET** button.

***Reminder:*** *It is recommended to* [*change the password for Open Kiosk*](#_hx4mopw22hv9) *to match the kiosk user’s new password. It is also recommended to* [*change the Guacamole password*](#_84tlyhye7kz1) *to match the administrator user’s new password.*

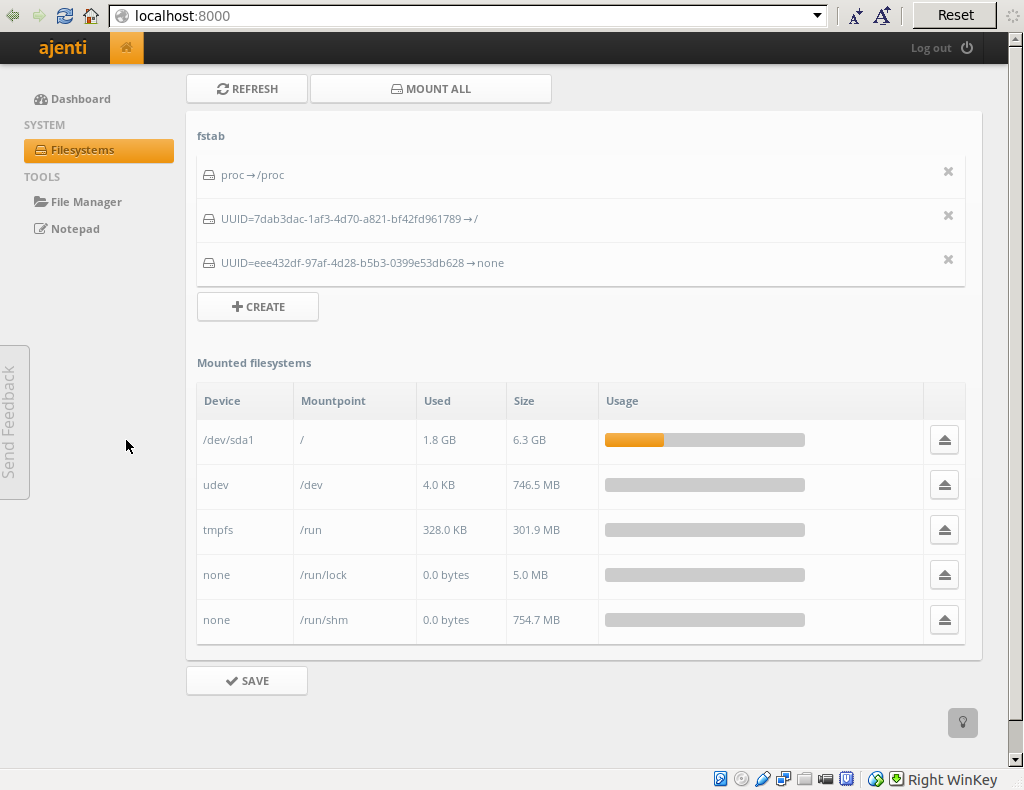
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### MOUNTING A FLASH DRIVE

*This feature is available to the kiosk user.*

***~~DOCUMENTATION COMING SOON~~***



**BUG FIX:** If flash drive fails to mount, log in to Ajenti as *administrator*. In **Terminal** type **pmount /dev/sdb1 usb** then click **RUN**. After adding screensavers use **Terminal** again to type **umount /media/usb && rm -r /media/usb** then click **RUN**.

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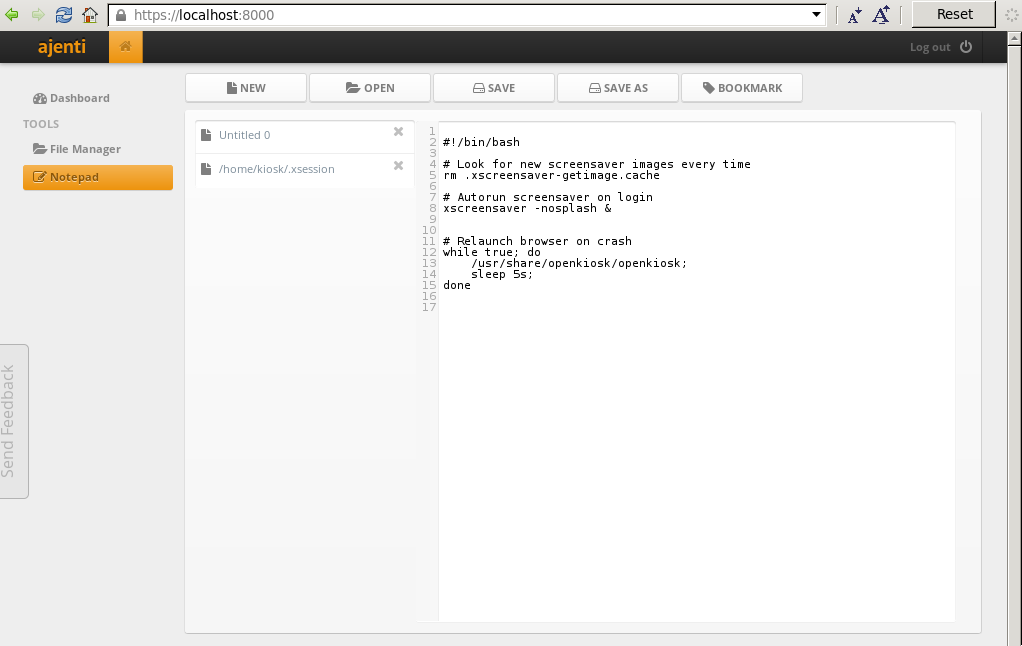
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### ENABLING THE SCREENSAVER

*This feature is available to the kiosk user.*

***ALERT:*** *The screensaver is disabled by default in Sanickiosk 1.2 due to a conflict with the program used to create the custom keyboard shortcuts. Enabling the screensaver will eventually cause the keyboard to lock and will require a reboot of Sanickiosk.*

Use **Notepad** under **TOOLS** to open **/home/kiosk/.xsession**.



Change this:

|  |
| --- |
| #xscreensaver -nosplash &  xset s off # Disable screensaver  xset -dpms # Disable DPMS (Energy Star) features  xset s noblank # Do not blank the screen |

To this:

|  |
| --- |
| xscreensaver -nosplash &  #xset s off # Disable screensaver  #xset -dpms # Disable DPMS (Energy Star) features  #xset s noblank # Do not blank the screen |

Click the **SAVE** button, then reboot the Sanickiosk machine.

To disable the screensaver again simply revert to the original and reboot the machine again.

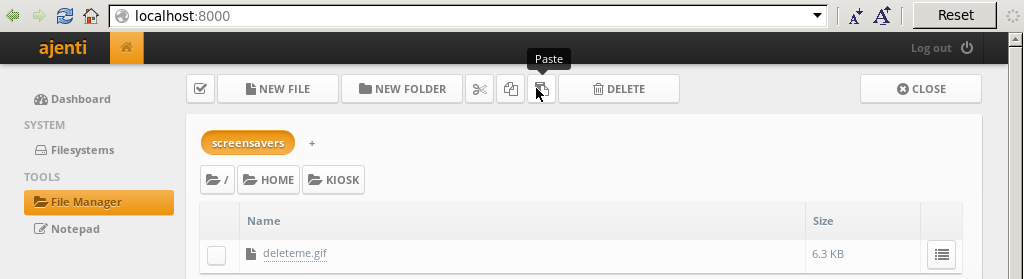
#### ADDING/REMOVING SCREENSAVERS

*This feature is available to the kiosk user.*

JPG, GIF, and PNG images may be used as screensavers.

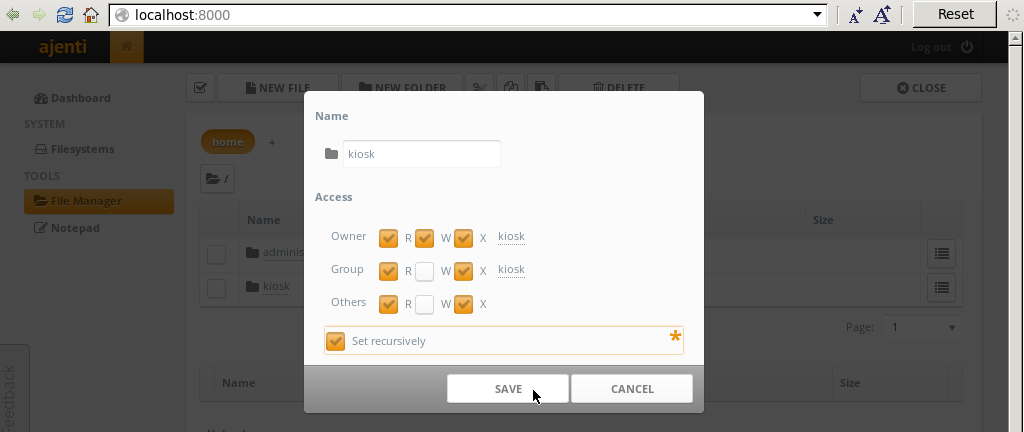
If using a flash drive inserted in the kiosk machine use **Filesystem** to mount the drive to **/media/usb**.

Select **File Manager** under **TOOLS**. Browse to **/media/usb**. Copy the images then paste them to the **/home/kiosk/screensavers** folder.

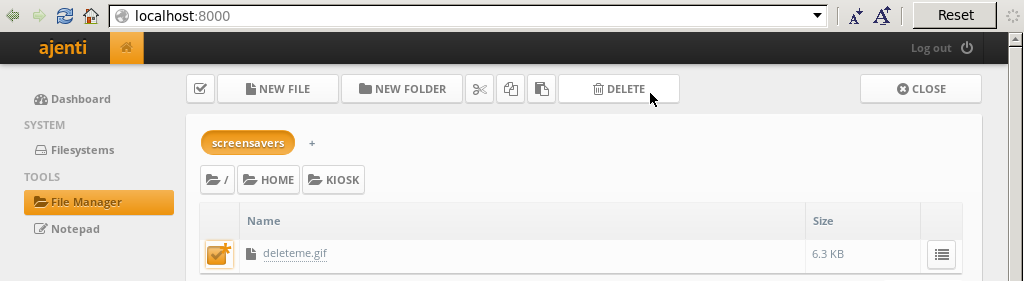


Next select the **/home/kiosk** folder and click the properties icon all the way to its right.

Tick **Set recursively** then the **SAVE** button. Finally, reboot the computer.



To remove a screensaver image simply tick the box next to it and choose **DELETE**.

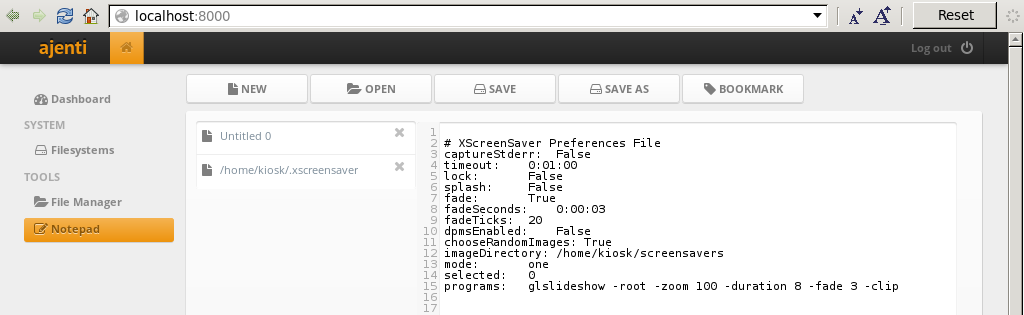


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#### CHANGING THE SCREENSAVER BEHAVIOR

*This feature is available to the kiosk user.*

Use **Notepad** under **TOOLS** to open **/home/kiosk/.xscreensaver**.



Edit the **programs:** line, after **glslideshow**…

* **-duration** How long (in seconds) each image will be displayed before loading a new one.
* **-fade** How long (in seconds) each cross-fade between images should last.
* **-clip** When an image does not have the same aspect ratio as the screen zoom in until the image takes up the whole screen. (The opposite is **-letterbox**.)

Remember to click the **SAVE** button after making any changes.

A complete list of glslideshow configuration tags are listed [here](http://www.linuxcommand.org/man_pages/glslideshow1.html). (*Tip: Combining* ***-pan*** *and a lower* ***-zoom*** *produces a nice effect.*)

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### HIDING THE CURSOR

*Only administrator may install new software.*

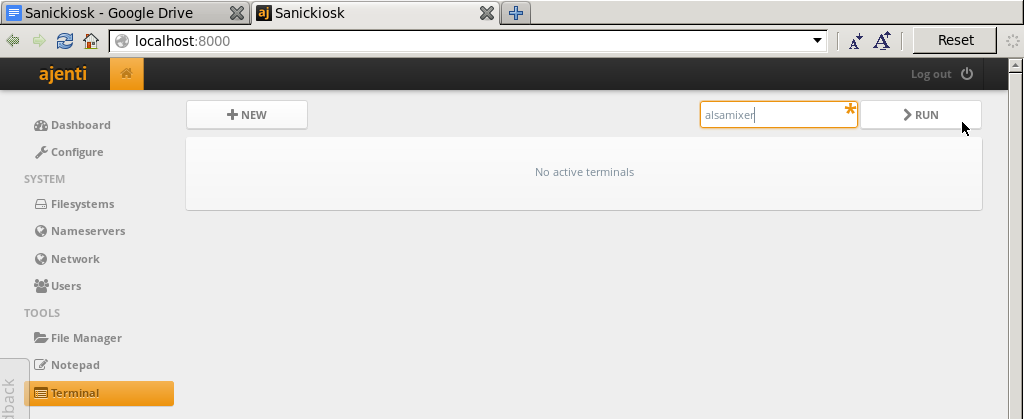
If you are using Sanickiosk to display digital signage you may want to hide the cursor. To do so in **Terminal** under **TOOLS** type **apt-get install unclutter** then click **RUN**.

In **Notepad** edit **/home/kiosk/.xsession**. Add a line **unclutter -idle 5** before Open Kiosk is started. The idle parameter sets the number of seconds unclutter will wait before hiding the cursor.

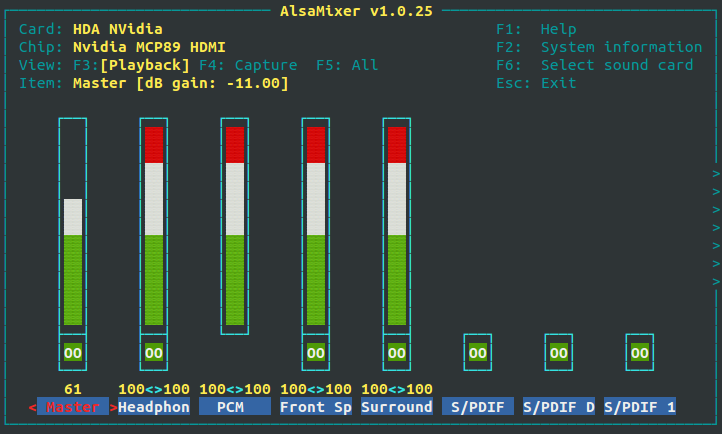
### MODIFYING AUDIO SETTINGS

*Only administrator may change audio settings.*

In **Terminal** under **TOOLS** type **alsamixer** then click **RUN**.



Documentation for Alsamixer may be found [here](http://alsa.opensrc.org/Alsamixer).



* Select your sound card using **F6**
* Navigate using the left and right arrow keys.
* Increase and decrease volume with the up and down arrow keys. (Or increase and decrease volume for the left/right channels individually using the **Q**, **E**, **Z**, and **C** keys.)
* Mute/Unmute with the **M** key. An **MM** means muted, and **OO** means unmuted. Note that a bar can be 100% full but still be muted, so do check for this.
* Exit from alsamixer with the **Esc** key.

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### CREATING A FILTER

*This feature is available to the kiosk user.*

Using **Notepad** under **TOOLS** create a new file by clicking **NEW**.

For reference, this is the sample filter provided by Open Kiosk:

|  |
| --- |
| # Here is a sample URL whitelist file  # This is a comment  # STRICT - only an exact URL match will be let through, though it is tolerant of trailing slashes  # ALL - all pages from a specified path will be let through  # - The \* wildcard will do a domain match, but only with the ALL filter  # brooklynmuseum.org = www.brooklynmuseum.org  # JAVASCRIPT - Allow javascript to run on the page (default)  # NOJAVASCRIPT - Block javascript from running on page  # http protocol is assumed other protocols MUST be specifically added  # SYNTAX FORMAT  # allowed[HOST, ALL/STRICT, JAVASCRIPT/NOJAVASCRIPT];  # Some sample entries:  allowed[www.mozdevgroup.com, ALL, JAVASCRIPT];  # use specific protocol if not assuming http://  # eg: https://  # although an ALL declaration is used above this declaration this will  # specifically block javascript for this url  allowed[https://www.mozdevgroup.com/dropbox/test/js.html, STRICT, NO JAVASCRIPT];  allowed[www.mozilla.org/projects/firefox/, STRICT, NOJAVASCRIPT];  # JAVASCRIPT is enabled by default  allowed[\*.brooklynmuseum.org/, ALL];  # JAVASCRIPT is enabled by default  allowed[\*.mozdev.org/, ALL];  # only this page will be displayed  allowed[www.mozilla.org/en-US/thunderbird/, STRICT, JAVASCRIPT];  # entire site and all subdomains will be allowed with javascript disabled  allowed[\*.slashdot.org, ALL, NOJAVASCRIPT];  # entire site and all subdomains will be allowed with javascript enabled  allowed[\*.google.com, ALL, JAVASCRIPT]; |

**NOTE:** If creating a whitelist you must include **allowed[localhost, ALL, JAVASCRIPT];** for access to Ajenti.

Once you have created your filter click the **SAVE AS** button, navigate to **/home/kiosk/filters**, and name your file **YOUR-FILTER-NAME.txt**.

Remember to [enable your filter](#_j465icgjpp14) using Open Kiosk.

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### NETWORKING

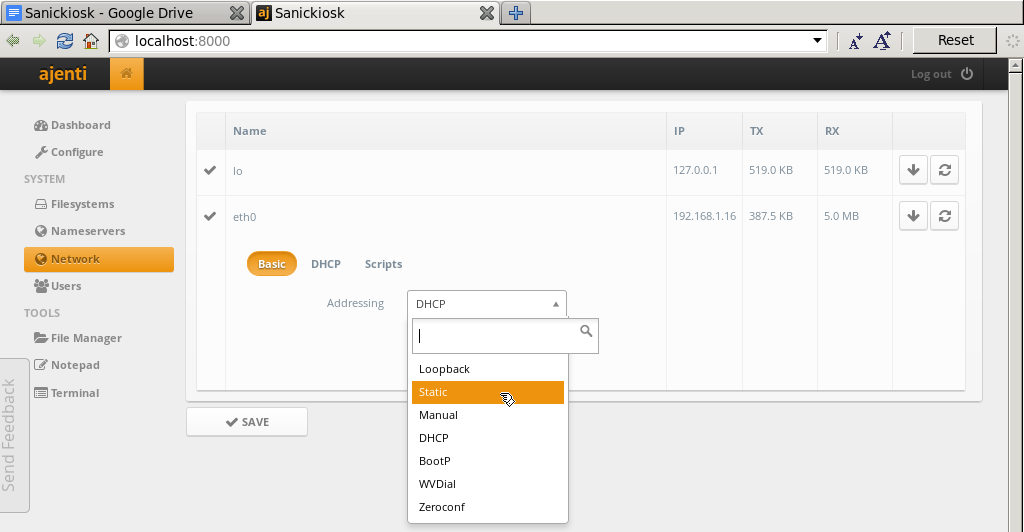
*Only administrator may change network settings.*

**NOTE:** If you are not using a DHCP ethernet connection you will experience a longer than normal boot time on Sanickiosk until your network settings are properly configured.

Network Settings may be edited by clicking **Network** under **SYSTEM**.

#### STATIC IPS

By default Sanickiosk supports DHCP. To configure a static IP select the networking device (*eth0* for ethernet or *wlan0* if you have [enabled wireless](#_cajqu3yxapna)) and change **Addressing** to **Static** then click the **SAVE** button.



Click the networking device again then **IPv4**. Enter your network settings then click the **SAVE** button.

Last, click the restart button to the far right of the networking device.

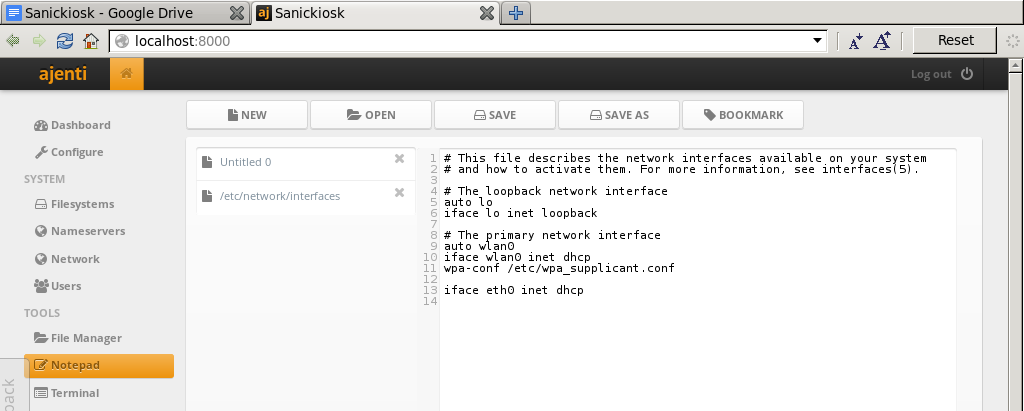
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#### ENABLING WIRELESS

*Unsecured and WPA working. WEP not working, but since it’s useless...*

By default Sanickiosk supports ethernet networking. To enable wireless networking use **Notepad** under **TOOLS** to edit **/etc/network/interfaces**.



Remove the line that reads **auto eth0** to stop Sanickiosk from looking for an ethernet connection on boot.

Copy and paste the following into the end of the file:

|  |
| --- |
| auto wlan0  iface wlan0 inet dhcp  wpa-conf /etc/wpa\_supplicant.conf |

Remember to click the **SAVE** button once you have made your changes.

Next, use **Notepad** under **TOOLS** to create a new file into which paste:

|  |
| --- |
| network={  ssid="YOUR-NETWORK-ESSID"  #key\_mgmt=NONE  #wep\_key0=YOUR-HEX-KEY  #psk="YOUR-PASSWORD"  } |

If using either WEP-secured or unsecured wireless change **#key\_mgmt=NONE** to

**key\_mgmt=NONE**.

If using WEP-secured wireless change **#wep\_key0=YOUR-HEX-KEY** to **wep\_key0=YOUR-HEX-KEY**.

If using WPA-secured wireless change **#psk="YOUR-PASSWORD"** to **psk="YOUR-PASSWORD"**.

Save the new file as **/etc/wpa\_supplicant.conf**.

In **Network** under **SYSTEM** click the up arrow to the right of *wlan0* to bring up wireless.

If having trouble you may consult this [sample wpa\_supplicant.conf](http://www.lsi.upc.edu/lclsi/Manuales/wireless/files/wpa_supplicant.conf). Just about every conceivable wireless network setting is represented.

**NOTE:** For advanced networking you may also edit **/etc/network/interfaces** directly from **Notepad** then issue **service networking restart** from **Terminal**.

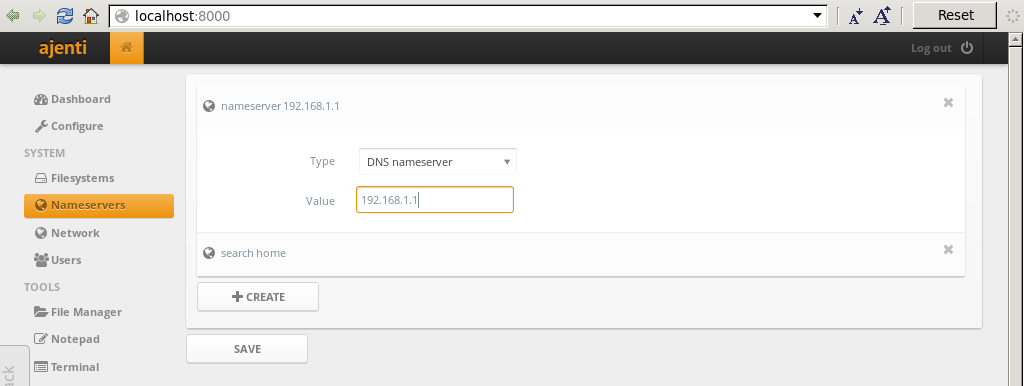
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#### NAMESERVERS

*Only administrator may change nameserver settings.*

Nameservers may be edited by clicking **Nameservers** under **SYSTEM**.

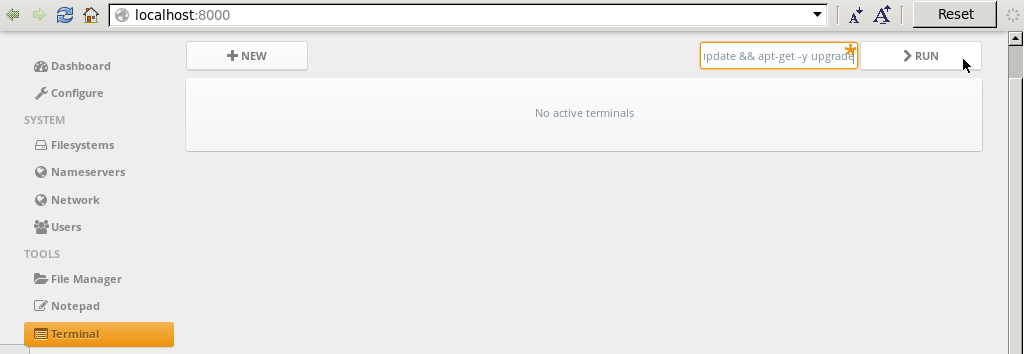


### UPDATING THE OPERATING SYSTEM

*Only administrator may update the operating system.*

By default Sanickiosk will automatically apply security updates to the Ubuntu operating system.

To manually check for and install other updates in **Terminal** type **apt-get update && apt-get -y upgrade** then click **RUN**.

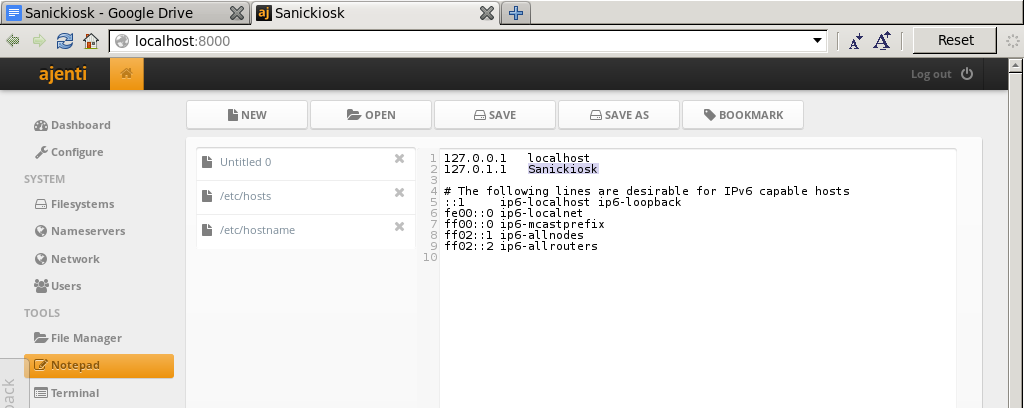


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### CHANGING THE HOSTNAME

*Only administrator should change the hostname.*

Using **Notepad** edit **/etc/hostname** and **/etc/hosts**. In both files replace **Sanickiosk** with the new machine name, then reboot the machine.



### ENABLING MORE AJENTI FEATURES

*This is an advanced topic.*

*Only administrator may change Ajenti features.*

Ajenti has many additional features that have been hidden for simplicity’s sake.

To explore those features:

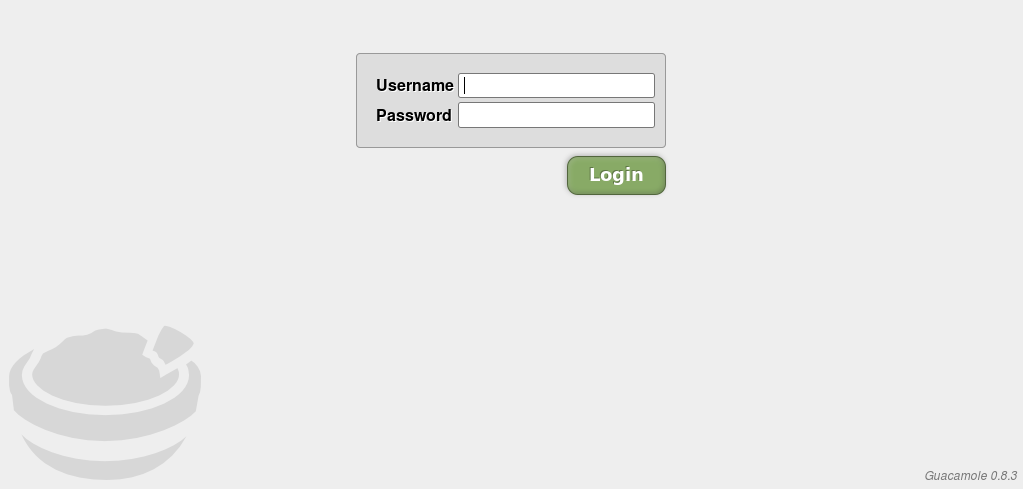
1. On the **Configure** page under **Users** change **Sync with** to **Off**.
2. At the bottom of the page click the **SAVE** button then the **RESTART** button to restart Ajenti.
3. Log in using the *root* account. The default password is *admin*.
4. On the **Configure** page under **Users** click on the silhouette next to the *administrator* user.
5. Enable whichever features you wish.
6. Still on the **Configure** page under **Users** change **Sync with** to **OS users**.
7. At the bottom of the page click the **SAVE** button then the **RESTART** button to restart Ajenti.

## GUACAMOLE: THE BROWSER-BASED REMOTE ADMINISTRATION TOOL

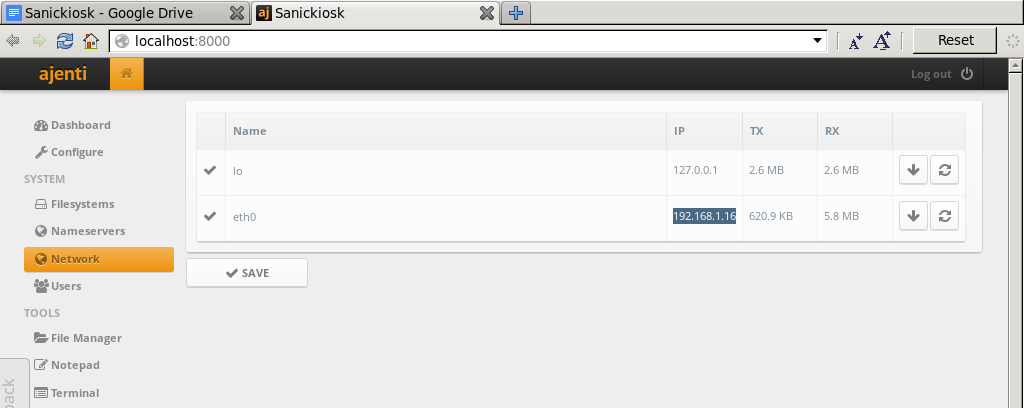
*Guacamole is a remote desktop gateway. It allows remote access using only a browser.*

*By default Guacamole is configured to only allow remote access by administrator.*

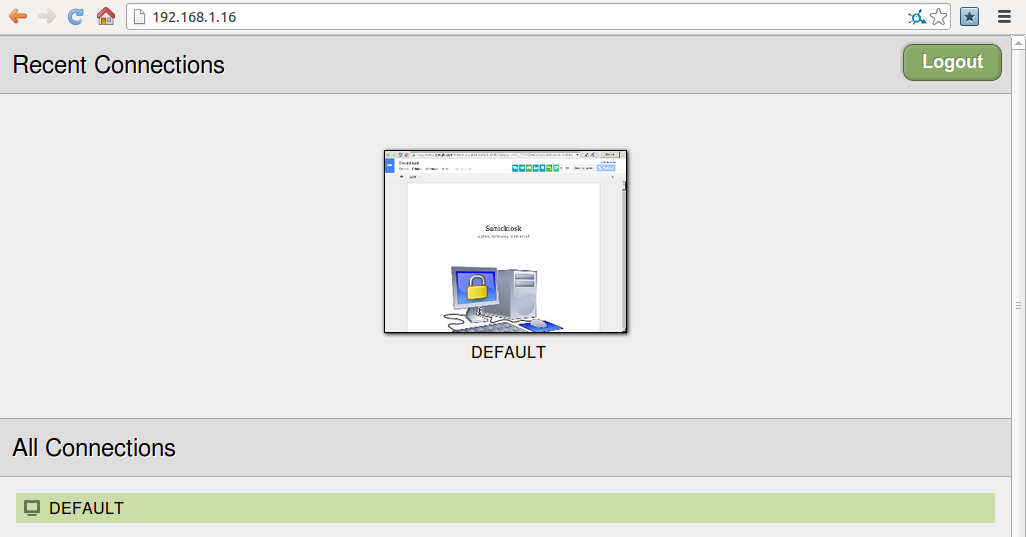
To control Sanickiosk from a remote machine simply browse to [http://SANICKIOSK-IP](http://sanickiosk-ip:8080). The default username is *administrator*. The default password is *password*.



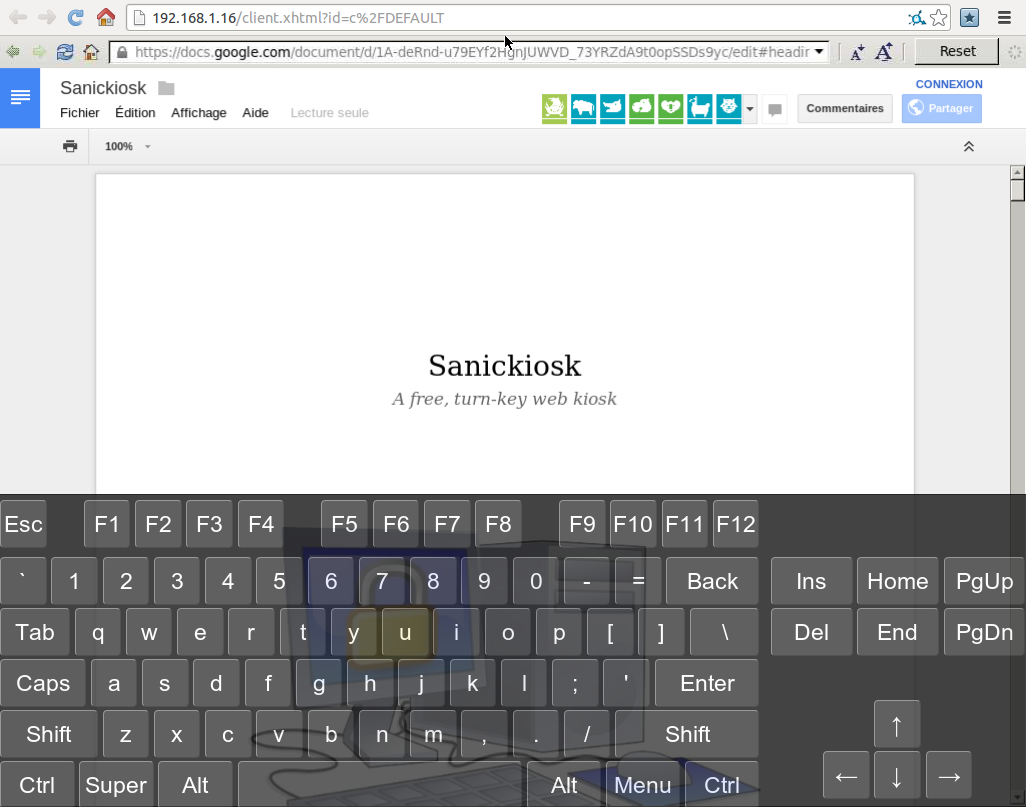
**TIP:** If you are uncertain of Sanickiosk’s IP address launch a **Terminal** from Ajenti and type **ifconfig**.



Under **All Connections** select **DEFAULT**.



Press **Ctrl+Alt+Shift** to toggle Guacamole’s on-screen keyboard.



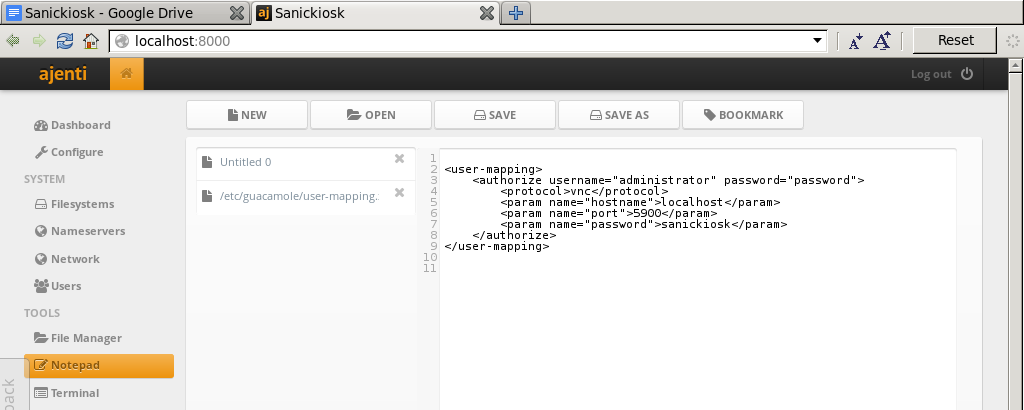
Use **Ctrl+Shift+1** to access the Open Kiosk settings and **Ctrl+Shift+2** for Ajenti.

### 

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### CHANGING THE GUACAMOLE LOGIN INFORMATION

In Ajenti using **Notepad** edit **/etc/guacamole/user-mapping.xml**.



Modify the line **<authorize username=”administrator” password=”password”>**.

Save and reboot.

# CREATING A CUSTOMIZED SANICKIOSK ISO

*This is an advanced topic.*

If you are deploying multiple Sanickiosks you may simply configure a single machine to your specifications then create a custom ISO from it to be installed on the other machines. Steps are outlined below. ([Video](http://youtu.be/V6buApW0xS8))

## AJENTI

1. Log into Ajenti as *administrator*.
2. Use **Notepad** to edit **/etc/default/grub**. Change **GRUB\_DISABLE\_RECOVERY** to **#GRUB\_DISABLE\_RECOVERY** and click the **SAVE** button.
3. On the **Terminal** page type **update-grub** and click the **> RUN** button.
4. On the **Dashboard** click the **Reboot** button.

## RECOVERY MODE

1. When you see the **GNU GRUB** menu appear use the down arrow on the keyboard to select the entry ending in **(recovery mode)** then press **Enter**.
2. When the **Recovery Menu** loads use the arrows on the keyboard to **Enable networking** then **Drop to root shell prompt**.
3. At the root shell prompt:
   1. To disable Recovery mode...
      1. Type the following then press **Enter**:

|  |
| --- |
| nano /etc/default/grub |

* + 1. Change **#GRUB\_DISABLE\_RECOVERY** to **GRUB\_DISABLE\_RECOVERY** then use **Ctrl-X** to save.
    2. Type the following then press **Enter**:

|  |
| --- |
| update-grub |

* 1. To delete all cached information about the build machine hardware so the target machine’s hardware will be scanned when the new installation is first booted…
     1. Type the following then press **Enter**:

|  |
| --- |
| rm /etc/udev/rules.d/\*persistent\*.rules |

* 1. To start Mondo Rescue...
     1. Type the following then press **Enter**:

|  |
| --- |
| mondoarchive |

## 

## 

## MONDO RESCUE

*Mondo Rescue is a powerful tool for creating bootable backup media.*

Use the following options:

* **Backup to** choose **Hard disk**.
* **Storage dir** type **/home/administrator**.
* **Type of compression** choose **bzip2**.
* **How much compression** choose **Maximum**.
* **ISO size** leave as default (**4480**).
* **Prefix** is the name displayed when the recovery image is loaded. Type **Sanickiosk** (or whatever you’d like to call it).
* **Backup paths** leave as default (**/**).
* **Exclude paths** leave blank.
* **Temporary directory** leave as default.
* **Scratch directory** leave as default.
* When asked **Do you want to backup extended attributes?** select **Yes**.
* When asked if you want to verify your backups select **No**.
* When asked about the kernel select **Yes**.
* When asked **Are you sure you want to proceed?** select **Yes**.

Creating the ISO will take a few minutes. You will see a “grub: not found” error and think it has failed, but it hasn’t. Be patient.

When finished **reboot** the computer.

## AJENTI

1. Log into Ajenti.
2. Insert a thumb drive of 2 GB or greater size.
3. Use **Filesystems** to mount the thumb drive.
4. Use **File Manager** to cut **/home/administrator/Sanickiosk-1.iso** and paste it to the thumb drive.

## ISO MASTER

*ISO Master is an easy-to-use utility for customizing CD/DVD images.*

Using ISO Master is beyond the scope of this document, however the files edited to create the Sanickiosk ISO were **isolinux.cfg** and **message.txt**.

# 

# SOURCE CODE (KIOSKSCRIPT.SH)

*This is an advanced topic.*

Kioskscript.sh, the script written to install Sanickiosk on a machine running Ubuntu Server (or potentially other Debian-based Linux installations) may be found on [Pastebin](http://pastebin.com/trakCsES). Directions to run the script may be found in the comments.

**NOTE:** It is unnecessary to perform a “from scratch” installation if you are simply looking to create a customized Sanickiosk ISO. Instead simply [install Sanickiosk](#_tong253iuziu), make your changes, then read [**CREATING A CUSTOMIZED SANICKIOSK ISO**](#_pawjcxie13m).

Once the script has been run allow the machine to reboot. ([Video](http://youtu.be/ZFM4iib5Yt0))

## SUGGESTED CONFIGURATION

These steps were taken post-installation to preconfigure Sanickiosk. Steps that are greyed out may be skipped as they are covered again under [**USING SANICKIOSK**](#_pile5zvqhui1). ([Video](http://youtu.be/VQTRlLN5llE))

### OPEN KIOSK

1. Enter the Open Kiosk administration screens by pressing **Ctrl+Shift+1**. The default password is *admin*.
2. On the **Browser** page under **Home Page** change **Location** to <http://links.sanicki.com/sanickiosk>.
3. On the **Admin** page under **Encrypted Password** change the **Password** to *kiosk*.
4. In the upper left click the **Save** button then the **Restart** button.

### AJENTI

1. Access the Ajenti login screen by pressing **Ctrl+Shift+2**. The default username *root* and the default password *admin*.
2. On the **Configure** page under **Users** change **Sync with** to **OS users**.
3. Still on the **Configure** page under **Users** press the **CREATE** button. Rename the new unnamed user *administrator* (or whatever username you used when installing the operating system).
4. Still on the **Configure** page under **Users** click on the silhouette next to the *administrator* user.
   1. Under **Section access** tick **Ajenti|Configure, Ajenti|Dashboard, Ajenti|Filesystems, System|Nameservers, System|Network, System|Users, Tools|File Manager, Tools|Notepad**, and **Tools|Terminal**.
   2. Under **Configuration** tick **Modify Ajenti configuration** and **Restart Ajenti**.
   3. Under **Power control** tick **Reboot** and **Shutdown**.
   4. Under **Terminal** tick **Run shell** and **Run custom commands**.
   5. Under **Widgets** tick **Power** and **Uptime**.
5. At the bottom of the page click the **SAVE** button then the **RESTART** button to restart Ajenti.
6. Log in to Ajenti using the *administrator* account.
7. On the **Dashboard** page click the **ADD WIDGET** button and select **Uptime** then repeat and select **Power**.
8. **BUG FIX**: On the **Users** page click the *kiosk* user and set the new password to *kiosk*. (Uncertain why this is necessary as *kiosk* user’s password should have been set to *kiosk* by kioskscript.sh.)
9. On the **Configure** page under **Users** click on the silhouette next to the *kiosk* user.
   1. Under **Section access** tick **Ajenti|Dashboard, Ajenti|Filesystems, Tools|File Manager**, and **Tools|Notepad**.
   2. Under **Widgets** tick **Uptime**.
10. At the bottom of the page click the **SAVE** button then the **RESTART** button to restart Ajenti.
11. Log in to Ajenti using the *kiosk* account using the default password *kiosk*.
12. On the **Dashboard** page click the **ADD WIDGET** button and select **Uptime**.

That’s it! You’re ready to proceed to [**USING SANICKIOSK**](#_pile5zvqhui1).

# CHANGELOG

07-Feb-2014 Sanickiosk 1.2.1

* Bugfix

06-Feb-2014 Sanickiosk 1.2

* Working dropdown menus
* Custom keyboard shortcuts
* Browser-based remote administration added (Guacamole)
* Ability for *kiosk* user to mount usb drive as intended
* Support for network nameservers in Ajenti
* Audio enabled
* Major updates to documentation

13-Jan-2014 [Sanickiosk 1.1](http://links.sanicki.com/sanickiosk-1.1) released

* Support for secure wireless added

06-Jan-2014 Sanickiosk 1.0 released

# 

# KNOWN BUGS

04-Feb-2014 Screensaver broken; xbindkeys conflict with xscreensaver causes keyboard to lock; Researching

16-Jan-2014: WEP-secured wireless fails to connect; Leaving unless WEP specifically requested

8-Jan-2014: Mondo Recovery installation fails to exit cleanly; Workaround bug fix added

6-Jan-2014: Password for kiosk user not properly set in kioskscript.sh; Only affects from-scratch install; Workaround bug fix added

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