

# IoT Smart Calendar Installation Guide

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## Physical Hardware List

- Raspberry Pi 3 B with power supply, case and heatsinks
- Waveshare 10.1 inch 1280x800 IPS LCD Capacitive Touchscreen with case
  - Any touchscreen monitor will work as long as it is compatible with Raspberry Pi 3 B
- Sandisk 32GB microSDHC card with normal SD card adapter
  - Any similar sized microSD card will work
- Emy passive infrared motion sensor detector modules
- Ethernet, HDMI, USB and digital I/O cables
- SMAKN LCUS-1 type USB relay module

## Hardware Setup

- **Mounting the Monitor**
  - Mount the monitor in a reachable, eye level spot.
    - Make sure monitor is not stealable and connections aren't tamperable.
  - Place the Raspberry Pi in a place that is not publicly reachable.
  - Connect the necessary cabling from the monitor to the Pi.
  - Cut the monitor power cable in a way where the one end reaches from the monitor to the Pi and the other end reaches from the Pi to a power source.
  - Strip the cable so that the ends are connective.
- **Connecting the Serial Relay**
  - Locate and separate the red (Vcc) and black (Gnd) wires on both sides.
  - Reconnect the black (Gnd) wires together
  - Connect the monitor-side red (Vcc) wire to the middle (COM, Common Connection) USB relay connection point and screw in the top until the wire is held.
  - Connect the power supply-side red (Vcc) wire to the right (NC, Normally Closed) USB relay connection point and screw in the top until the wire is held.
  - Leave the left (NO, Normally Open) USB relay connection point open.
  - Plug the USB Relay into one of the USB slots on the Pi.
- **Raspberry Pi GPIO Pins**
  - Each sensor needs a GPIO pin and also sources power and ground.
  - Attach a connector to both pins 4 (Vcc) and 6 (Gnd).
  - Attach a connector to both pins 11 (GPIO 17) and 13 (GPIO 27).
- **PIR Sensors and Pins**
  - Hold both sensors upside down where the dome faces downward.
  - When looking at the turning gears, turn the left gear completely counterclockwise and the right gear completely clockwise.
  - Install the infrared sensors into the ceiling.
    - Install one sensor a foot away from the wall centered above each the door and the monitor.
    - Limit the cone of vision of each sensor with an inch deep pipe with an inch diameter.

- Cover each sensor in a container to keep dust off.
- Connect the Vcc (right) and Gnd (left) pins to the Vcc and Gnd connectors on the Pi.
- Connect the Out (middle) pin on the left sensor above the monitor to pin 11 on the Pi.
- Connect the Out (middle) pin on the right sensor above the office door to pin 13 on the Pi.

## Software Installation and Configuration

- **Ubuntu MATE**
  - **Download and install operating system on micro SD card**
  - Download Ubuntu MATE image from <https://ubuntu-mate.org/>
  - Format the microSD card using the downloaded image file.
    - Applications like win32 disk imager can do this for you <https://sourceforge.net/projects/win32diskimager/>
  - Insert the microSD card into the Raspberry Pi and plug in a monitor, keyboard and mouse as well as power.
  - Complete the first time setup. Make sure to remember your username and password.
- **Mozilla Firefox**
  - **Configure internet browser**
  - If the OS did not come with Firefox, then download it: <https://www.mozilla.org/en-US/firefox/>
  - Change the homepage to localhost
  - Some extensions for Firefox are required: <https://addons.mozilla.org/en-US/firefox/extensions/>
  - **RKiosk** - Starts firefox in kiosk mode
    - <https://addons.mozilla.org/en-US/firefox/addon/r-kiosk/>
  - **FxKeyboard** - Adds a keyboard to the bottom of the window
    - <https://addons.mozilla.org/en-US/firefox/addon/fxkeyboard/>
  - **Adblock Plus** - Blocks links to external sites on Google Calendar
    - <https://addons.mozilla.org/en-US/firefox/addon/adblock-plus/>
    - Follow the standard procedure for adding new Adblock Plus filters.
    - Disable default ad filters to increase browser performance.
    - Add the filters listed in **Appendix A**.
  - **Element Hiding Helper for Adblock Plus** - Point and click element disabler
    - If Google Calendar updates and unwanted elements appear, use this to block them.
- **Startup Applications**
  - **Make Firefox launch on startup**

- Guide with pictures:  
<https://askubuntu.com/questions/243139/how-to-add-application-to-startup-application-menu>
- Click on the start menu icon on the top left and go to startup applications.
- Click Add on the opened window.
- Enter “firefox” as the command and click Add on the new window.
- **Disable Xscreensaver**
  - **Disable pre-installed screensaver**
  - Click on the start menu icon on the top left and go to xscreensaver config.
  - Disable xscreensaver with the given options.
- **Disable Mate-screensaver**
  - **Disable other pre-installed screensaver**
  - Click on the start menu icon on the top left and locate Screensaver Preferences.
  - Uncheck both boxes.
- **Wifi/Ethernet**
  - **The system needs Internet**
  - The system can make use of either wireless or wired Internet connectivity, but this must be automatic.
  - Either hardwire a stable ethernet cable to the system or use a default wireless connection.
- **Repository**
  - Download the repository: <https://github.com/BUInvent/Smart-Calendar>
  - Should probably make your own remote repository because you will not be able to contribute to the one linked above unless you are a contributor
  - Extract contents into /var/www/
    - This is the root directory
- **Messenger**
  - Sending email using php from gmail:  
<http://stackoverflow.com/questions/16048347/send-email-using-gmail-smtp-server-through-php-mailer>
    - Note: must install phpmailer using commands:
      - sudo apt-get update
      - sudo apt-get install libphp-phpmailer
  - Change email/text recipient:
    - HTML/send\_Message.php
      - Lines 26-27
  - Change email address getting sent from:
    - HTML/send\_Message.php
      - Lines 37-38
        - Note: obviously, this is a huge security issue as the email address password is in plain site. Please work on fixing.
  - Change Google Calendar owner:
    - HTML/index.html

- Line 20
      - Steps to embed google calendar found here:
        - <https://support.google.com/calendar/answer/41207?hl=en>
- **LAMP**
  - **System makes use of Apache2 and PHP, PHP and some Javascript requires a web server**
  - Additional PHP and Apache2 installation and setup
  - Follow the regular LAMP Installation:
    - <https://www.digitalocean.com/community/tutorials/how-to-install-linux-apache-mysql-php-lamp-stack-on-ubuntu-16-04>
  - Change the default root directory of Apache2 web server (should be /var/www/) :
    - <http://stackoverflow.com/questions/5891802/how-do-i-change-the-root-directory-of-an-apache-server>
- **Python**
  - **Program used for background scripts**
  - Packages needed: glob, os, sys, time, pwd, serial
    - Most packages will be preinstalled
    - PySerial may have to be installed
- **CRON Table**
  - **Edit the task scheduler table**
  - Edit the Crontab: sudo crontab -e
  - Change the contents of the table to include the lines in **Appendix B**
  - Make sure the directories referenced in the table are the actual correctly installed directories.
  - Save, install and exit.
- **Fstab**
  - **Create temporary memory location**
  - Open Fstab : sudo gedit /etc/fstab
    - Optionally use your text editor of choice.
  - Edit the contents of the file to include this line:
  - tmpfs /var/www/Smart-Calendar/HTML/temporary tmpfs size=1m 0 0

## Maintaining the System

- **Accessing the Operating System**
  - Disconnect the touchscreen monitor.
  - Connect a different monitor as well as a mouse and keyboard.
  - Press Alt+F4 to close the internet browser.
  - You can now use the Smart Calendar as a normal computer.
    - In order to use the Internet, run Firefox in safe mode using a terminal:
 

```
firefox --safe-mode
```
    - In order to return the system to displaying the calendar, reopen Mozilla Firefox.

- **Disabling Kiosk Mode**
  - Run Firefox in safe mode using a terminal: `firefox --safe-mode`
  - On the top right, click on the menu and go to Add-ons.
  - On the left, go to extensions and disable RKiosk.
  - Reopen Firefox without safe mode.
  - In order to reactivate kiosk mode, follow the same steps.
    - Safe mode is unnecessary to reactivate RKiosk.
- **Changing Ads**
  - Make advertisements in .jpg, .png, or .gif format.
  - Upload them to your repository in the HTML/images folder.
  - Run `images_Grab.py`
  - Push changes to your repository.
  - Next time Smart Calendar pulls changes, the ads should show.
- **New Unwanted Google Calendar Links are Showing**
  - Learn more about Adblock Plus filters: <https://adblockplus.org/filters>
  - Make sure Firefox is not in kiosk mode.
  - Find the name of the element/hyperlink that contains the unwanted link.
    - Element Hiding Helper will make this process very easy.
    - Open it using the toolbar and click on the element to block.
  - Open the settings for Adblock Plus and add the filter if not using Element Hiding Helper.
  - If the element is recurring on multiple spots, it is possible to block all of them with one filter.
    - Find the common prefix of all of the unwanted elements.
    - Delete the suffix of the filter where the similar elements differ and replace it with a \*
    - Add this as a new filter and refresh the page in order to make sure that your filter worked.
- **USB Serial Relay not Working**
  - Make sure to check if the wire connections are secure and connecting.
  - SSH into the board
  - Check `/dev/` for items named like `ttyUSBx` where `x` is a number.
  - If there are multiple items, figure out which one is the USB Serial Relay.
  - If there are no items, then the Relay is either not plugged in correctly or broken.
  - Open `Background/startup.py` in a text editor.
  - Change lines 39 and 46 to the name of the item.
  - Save and close the file.
  - Push changes to your repository.
- **How to SSH**
  - <http://42bots.com/tutorials/access-raspberry-pi-terminal-and-desktop-remotely-with-ssh-and-vnc/>
  - Enable SSH for the Pi.
  - Find the IP address of the Raspberry Pi on the network.

- This can be done by using the ifconfig command on the Pi.
  - SSH from your computer using the username, password, and IP address of the Pi.
    - PuTTY can be used for SSH.
  - If the SSH is successful, you are now logged into the Pi over a terminal.
- **Disable Monitor Turning Off**
  - Open Background/pins.py in a text editor.
  - Change do\_monitor to 0 to disable the monitor turning off
    - Change it back later to 1 for monitor turning off if wanted
  - Save and close the file.
  - Push changes to your repository.
- **How to Use Git**
  - Use an online tutorial: <https://try.github.io/levels/1/challenges/1>
- **Firefox is Working Improperly**
  - Close any instance of Firefox.
  - Locate the ~/.mozilla/firefox/xxxxxxx.default/prefs.js file.
    - This path name is approximately correct; it needs to be changed depending on installation.
  - Find any differences (if any) between this file and what is listed below in **Appendix C**.
  - Modify and save changes where this is deemed fitting.
  - Restart Firefox.

### Appendix A: Adblock Filters

```
calendar.google.com###.menu-link
calendar.google.com###A[href*="https://calendar.google.com/calendar/event?"]
calendar.google.com###A[href*="https://www.google.com/calendar/event?"]
calendar.google.com###.logo-plus-button
```

### Appendix B: Cron Table

```
*/10 * * * * (cd /var/www/Smart-Calendar; git pull origin master; sync)
@reboot python /var/www/Smart-Calendar/Background/init.py
0 4 * * * python /var/www/Smart-Calendar/Background/startup.py --stop
0 4 * * * python /var/www/Smart-Calendar/Background/startup.py --monitor-off
5 4 * * * sudo shutdown -r
```

### Appendix C: Firefox Preferences

```
user_pref("accessibility.typeaheadfind.flashBar", 0);
user_pref("app.update.auto", false);
user_pref("app.update.lastUpdateTime.addon-background-update-timer", 1494271857);
```

```
user_pref("app.update.lastUpdateTime.blocklist-background-update-timer", 1494357851);
user_pref("app.update.lastUpdateTime.browser-cleanup-thumbnails", 1494355018);
user_pref("app.update.lastUpdateTime.experiments-update-timer", 1494271737);
user_pref("app.update.lastUpdateTime.search-engine-update-timer", 1494349264);
user_pref("app.update.lastUpdateTime.xpi-signature-verification", 1494358040);
user_pref("browser.cache.disk.capacity", 307200);
user_pref("browser.cache.disk.enable", false);
user_pref("browser.cache.disk.filesystem_reported", 1);
user_pref("browser.cache.disk.smart_size.first_run", false);
user_pref("browser.cache.disk.smart_size.use_old_max", false);
user_pref("browser.cache.disk_cache_ssl", false);
user_pref("browser.cache.frecency_experiment", 3);
user_pref("browser.cache.frecency_half_life_hours", 1);
user_pref("browser.cache.memory.enable", false);
user_pref("browser.customizemode.tip0.shown", true);
user_pref("browser.download.importedFromSqlite", true);
user_pref("browser.download.panel.shown", true);
user_pref("browser.laterrun.bookkeeping.profileCreationTime", 1487454019);
user_pref("browser.laterrun.bookkeeping.sessionCount", 52);
user_pref("browser.migrated-sync-button", true);
user_pref("browser.migration.version", 42);
user_pref("browser.newtabpage.enhanced", true);
user_pref("browser.newtabpage.storageVersion", 1);
user_pref("browser.pagethumbnails.storage_version", 3);
user_pref("browser.places.smartBookmarksVersion", 8);
user_pref("browser.safebrowsing.provider.google.lastupdatetime", "1494357515278");
user_pref("browser.safebrowsing.provider.google.nextupdatetime", "1494359353278");
user_pref("browser.safebrowsing.provider.mozilla.lastupdatetime", "1494356052184");
user_pref("browser.safebrowsing.provider.mozilla.nextupdatetime", "1494359652184");
user_pref("browser.search.countryCode", "US");
user_pref("browser.search.region", "US");
user_pref("browser.sessionstore.upgradeBackup.latestBuildID", "20170329150643");
user_pref("browser.slowStartup.averageTime", 0);
user_pref("browser.slowStartup.samples", 0);
user_pref("browser.startup.homepage", "http://localhost/Ads.html");
user_pref("browser.startup.homepage_override.buildID", "20170329150643");
user_pref("browser.startup.homepage_override.mstone", "52.0.2");
user_pref("browser.uiCustomization.state",
"{\"placements\":{\"PanelUI-contents\":[\"edit-controls\", \"zoom-controls\", \"new-window-button\", \"privatebrowsing-button\", \"save-page-button\", \"print-button\", \"history-panelmenu\", \"fullscreen-button\", \"find-button\", \"preferences-button\", \"add-ons-button\", \"developer-button\", \"sync-button\"], \"addon-bar\": [\"addonbar-closebutton\", \"status-bar\"], \"PersonalToolbar\": [\"personal-bookmarks\", \"nav-bar\": [\"urlbar-container\", \"search-container\", \"bookmarks-menu-button\", \"download
```

```
ds-button\", \"home-button\", \"pocket-button\", \"abp-toolbarbutton\"], \"TabsToolbar\": [\"tabbrowser-  
-tabs\", \"new-tab-button\", \"alltabs-button\"], \"toolbar-menubar\": [\"menubar-items\"], \"seen\": [\"a  
bp-toolbarbutton\", \"developer-button\", \"dirtyAreaCache\": [\"toolbar-menubar\", \"nav-bar\", \"Tab  
sToolbar\", \"PersonalToolbar\", \"PanelUI-contents\", \"addon-bar\"], \"currentVersion\": 6, \"newEle  
mentCount\": 0}");  
user_pref(\"datareporting.policy.dataSubmissionPolicyAcceptedVersion\", 2);  
user_pref(\"datareporting.policy.dataSubmissionPolicyNotifiedTime\", \"1494355587162\");  
user_pref(\"datareporting.sessions.current.activeTicks\", 0);  
user_pref(\"datareporting.sessions.current.firstPaint\", 26490);  
user_pref(\"datareporting.sessions.current.main\", 1184);  
user_pref(\"datareporting.sessions.current.sessionRestored\", 30162);  
user_pref(\"datareporting.sessions.current.startTime\", \"1494357990303\");  
user_pref(\"datareporting.sessions.current.totalTime\", 20);  
user_pref(\"datareporting.sessions.currentIndex\", 9);  
user_pref(\"datareporting.sessions.previous.0\",  
\"{\\\"s\\\":1494352296205,\\\"a\\\":0,\\\"t\\\":26,\\\"c\\\":false,\\\"m\\\":651,\\\"fp\\\":54818,\\\"sr\\\":-1}\");  
user_pref(\"datareporting.sessions.previous.1\",  
\"{\\\"s\\\":1494354971326,\\\"a\\\":1,\\\"t\\\":67,\\\"c\\\":false,\\\"m\\\":752,\\\"fp\\\":31336,\\\"sr\\\":30586}\");  
user_pref(\"datareporting.sessions.previous.2\",  
\"{\\\"s\\\":1494355546758,\\\"a\\\":2,\\\"t\\\":70,\\\"c\\\":false,\\\"m\\\":1017,\\\"fp\\\":21746,\\\"sr\\\":24415}\");  
user_pref(\"datareporting.sessions.previous.3\",  
\"{\\\"s\\\":1494356024193,\\\"a\\\":3,\\\"t\\\":43,\\\"c\\\":false,\\\"m\\\":391,\\\"fp\\\":13029,\\\"sr\\\":11306}\");  
user_pref(\"datareporting.sessions.previous.4\",  
\"{\\\"s\\\":1494356323313,\\\"a\\\":8,\\\"t\\\":87,\\\"c\\\":true,\\\"m\\\":188,\\\"fp\\\":10851,\\\"sr\\\":12557}\");  
user_pref(\"datareporting.sessions.previous.5\",  
\"{\\\"s\\\":1494356434669,\\\"a\\\":117,\\\"t\\\":949,\\\"c\\\":true,\\\"m\\\":178,\\\"fp\\\":12463,\\\"sr\\\":13356}\");  
user_pref(\"datareporting.sessions.previous.6\",  
\"{\\\"s\\\":1494357390926,\\\"a\\\":0,\\\"t\\\":30,\\\"c\\\":true,\\\"m\\\":188,\\\"fp\\\":10923,\\\"sr\\\":16001}\");  
user_pref(\"datareporting.sessions.previous.7\",  
\"{\\\"s\\\":1494357429405,\\\"a\\\":17,\\\"t\\\":187,\\\"c\\\":true,\\\"m\\\":185,\\\"fp\\\":9613,\\\"sr\\\":13587}\");  
user_pref(\"datareporting.sessions.previous.8\",  
\"{\\\"s\\\":1494357692751,\\\"a\\\":26,\\\"t\\\":167,\\\"c\\\":true,\\\"m\\\":183,\\\"fp\\\":15214,\\\"sr\\\":19762}\");  
user_pref(\"distribution.canonical.bookmarksProcessed\", true);  
user_pref(\"experiments.activeExperiment\", false);  
user_pref(\"extensions.adblockplus.currentVersion\", \"2.8.2\");  
user_pref(\"extensions.adblockplus.notificationdata\",  
\"{\\\"lastCheck\\\":1494358063437,\\\"softExpiration\\\":1494436621815,\\\"hardExpiration\\\":149452517  
7866,\\\"data\\\":{\\\"notifications\\\":[],\\\"version\\\":\\\"201705091752\\\"},\\\"lastError\\\":0,\\\"downloadStatus\\\":\\  
\\\"synchronize_ok\\\",\\\"downloadCount\\\":1}\");  
user_pref(\"extensions.blocklist.pingCountTotal\", 2);  
user_pref(\"extensions.blocklist.pingCountVersion\", 2);  
user_pref(\"extensions.bootstrappedAddons\",  
\"{\\\"{d10d0bf8-f5b5-c8b4-a8b2-2b9879e08c5d}\\\":{\\\"version\\\":\\\"2.8.2\\\",\\\"type\\\":\\\"extension\\\",\\\"descr
```

```
iptor\":" /home/jason/.mozilla/firefox/37uxaw55.default/extensions/{d10d0bf8-f5b5-c8b4-a8b2-2b9879e08c5d}.xpi\","multiprocessCompatible":true,"runInSafeMode":false,"dependencies":[],"hasEmbeddedWebExtension":false},"elemhidehelper@adblockplus.org":{"version":"1.4","type":"extension","descriptor":" /home/jason/.mozilla/firefox/37uxaw55.default/extensions/elehidehelper@adblockplus.org.xpi\","multiprocessCompatible":true,"runInSafeMode":false,"dependencies":[],"hasEmbeddedWebExtension":false},"deployment-checker@mozilla.org":{"version":"1.0","type":"extension","descriptor":" /usr/lib/firefox/browser/features/deployment-checker@mozilla.org.xpi\","multiprocessCompatible":true,"runInSafeMode":true,"dependencies":[],"hasEmbeddedWebExtension":false}}");
user_pref("extensions.databaseSchema", 19);
user_pref("extensions.e10s.rollout.hasAddon", false);
user_pref("extensions.e10s.BlockedByAddons", true);
user_pref("extensions.enabledAddons",
"ubufox%40ubuntu.com:3.2,%7B4D498D0A-05AD-4fdb-97B5-8A0AABC1FC5B%7D:0.9.0.1-signed.1-signed,fxkeyboard%40zabreznik.net:2.4.2.1-signed.1-signed,%7B972ce4c6-7e08-4474-a285-3208198ce6fd%7D:52.0.2");
user_pref("extensions.getAddons.databaseSchema", 5);
user_pref("extensions.lastAppVersion", "52.0.2");
user_pref("extensions.lastPlatformVersion", "52.0.2");
user_pref("extensions.pendingOperations", false);
user_pref("extensions.xpiState",
{"app-profile":{"fxkeyboard@zabreznik.net":{"d":" /home/jason/.mozilla/firefox/37uxaw55.default/extensions/fxkeyboard@zabreznik.net.xpi\","e":true,"v":"2.4.2.1-signed.1-signed","st":1486497899000},"elemhidehelper@adblockplus.org":{"d":" /home/jason/.mozilla/firefox/37uxaw55.default/extensions/elehidehelper@adblockplus.org.xpi\","e":true,"v":"1.4","st":1492045156000},"{d10d0bf8-f5b5-c8b4-a8b2-2b9879e08c5d}":{"d":" /home/jason/.mozilla/firefox/37uxaw55.default/extensions/{d10d0bf8-f5b5-c8b4-a8b2-2b9879e08c5d}.xpi\","e":true,"v":"2.8.2","st":1487801687000},"{4D498D0A-05AD-4fdb-97B5-8A0AABC1FC5B}":{"d":" /home/jason/.mozilla/firefox/37uxaw55.default/extensions/{4D498D0A-05AD-4fdb-97B5-8A0AABC1FC5B}.xpi\","e":true,"v":"0.9.0.1-signed.1-signed","st":1486497399000},"app-system-defaults":{"firefox@getpocket.com":{"d":" /usr/lib/firefox/browser/features/firefox@getpocket.com.xpi\","e":false,"v":"1.0.5","st":1490806223000},"webcompat@mozilla.org":{"d":" /usr/lib/firefox/browser/features/webcompat@mozilla.org.xpi\","e":false,"v":"1.0","st":1490806223000},"e10srollout@mozilla.org":{"d":" /usr/lib/firefox/browser/features/e10srollout@mozilla.org.xpi\","e":false,"v":"1.9","st":1490806223000},"aushelper@mozilla.org":{"d":" /usr/lib/firefox/browser/features/aushelper@mozilla.org.xpi\","e":false,"v":"2.0","st":1490806223000},"deployment-checker@mozilla.org":{"d":" /usr/lib/firefox/browser/features/deployment-checker@mozilla.org.xpi\","e":true,"v":"1.0","st":1490806223000},"app-global":{"972ce4c6-7e08-4474-a285-3208198ce6fd":{"d":" /usr/lib/firefox/browser/extensions/{972ce4c6-7e08-4474-a285-3208198ce6fd}.xpi\","e":true,"v":"52.0.2","st":1490806223000},"app-system-share":{"ubufox@ubuntu.com":{"d":" /usr/share/mozilla/extensions/{ec8030f7-c20a-464f-9b0e-13a3a9e97384}/ubufox@ubuntu.com.xpi\","e":true,"v":"3.2","st":1442597402000}}});
user_pref("idle.lastDailyNotification", 1494352517);
```

```
user_pref("media.gmp-manager.buildID", "20170329150643");
user_pref("media.gmp-manager.lastCheck", 1494352419);
user_pref("media.gmp.storage.version.observed", 1);
user_pref("network.cookie.prefsMigrated", true);
user_pref("network.predictor.cleaned-up", true);
user_pref("pdfjs.migrationVersion", 2);
user_pref("places.history.expiration.transient_current_max_pages", 64699);
user_pref("plugin.disable_full_page_plugin_for_types", "application/pdf");
user_pref("services.blocklist.clock_skew_seconds", 170081);
user_pref("services.blocklist.last_update_seconds", 1494187771);
user_pref("signon.importedFromSqlite", true);
user_pref("startup.homepage_override_url", "http://localhost/Ads.html");
user_pref("startup.homepage_welcome_url", "http://localhost/Ads.html");
user_pref("storage.vacuum.last.index", 0);
user_pref("toolkit.startup.last_success", 1494357991);
user_pref("toolkit.telemetry.cachedClientID", "ec34b50e-7295-47bd-9392-ee8efd1f7e3f");
user_pref("toolkit.telemetry.previousBuildID", "20170329150643");
user_pref("toolkit.telemetry.reportingpolicy.firstRun", false);
```