Podešavanje Linux operativnog sistema za rad sa elektronskim čitačima kartica

Podržane distribucije Linux operativnog sistema, na koje se odnosi ovo uputstvo, su:

- Ubuntu Linux 14.04 (Desktop LTS)

NAPOMENA: Da bi podešavanje klijentskog računara bilo uspešno realizovano, neophodno je omogućiti pristup internetu tokom konfiguracije.

Na instaliranom sistemu je potrebno instalirati sledeće pakete koji sadrže drajvere za rad sa elektronskim čitačem kartica. Otvoriti **Terminal** i uneti set komandi:

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|-------|--------------|--------|-------|--|
| ٠ 🌑 | ⊗ ter | | | |
| | Applications | | | |
| | >_ | | | |
| | Terminal | UXTerm | XTerm | |
| | | | | |
| | | | | |

sudo apt-get install -y pcsc-tools pcscd
(uneti sudo password)
sudo apt-get install libusb-dev libusb++-0.1-4c2
sudo apt-get install -y libccid libpcsclite1 libpcsclite-dev
sudo service pcscd restart
sudo update-rc.d pcscd defaults

Potom je potrebno instalirati Oracle JDK 1.8. U terminalu je potrebno uneti sledeći set komandi:

```
sudo apt-add-repository ppa:webupd8team/java
# ENTER za nastavak instalacije Java 8
sudo apt-get update
sudo apt-get install -y oracle-java8-installer
# ENTER za OK, i obeleziti YES. Potvrditi sa ENTER
export JAVA_HOME=/usr/lib/jvm/java-8-oracle
cd /usr
sudo mkdir lib64
cd /usr/lib64
sudo ln -s /usr/lib/x86_64-linux-gnu/libpcsclite.so libpcsclite.so
cd /usr/lib
```

Pokrenuti Java kontrolni centar komandom iz terminala:

jcontrol

i klikom na tab "Security" otvoriti "Edit Site List"

| 😣 🖨 Java Control Panel | o p |
|--|------------|
| General Java Security Advanced | |
| 🗹 Enable Java content in the browser |] [. |
| | ovi vid |
| Security level for applications pot on the Exception Site list | ovi |
| | |
| \bigcirc very right \bigcirc | to |
| allowed to run, and only if the certificate can be verified as not revoked. | ide |
| High | рго |
| Java applications identified by a certificate from a trusted authority are allowed | рг |
| to run, even if the revocation status of the certificate cannot be verified. | vid |
| | рго |
| Exception Site List | de |
| Applications launched from the sites listed below will be allowed to run after the appropriate security prompts. | bnp |
| Java Control Panel | |
| to add items to this list. | -05 |
| Edit <u>S</u> ite List | |
| | |
| <u>R</u> estore Security Prompts <u>Manage Certificates</u> | |
| | gnu |
| | |
| OK Cancel Apply | |
| | |

Uneti lokalnu adresu Heliant servera i kliknuti na **"Add**", pa na **"Continue**" Ukoliko se Helinatu pristupa preko porta 8080 potrebno je adresu uneti u formatu <u>http://192.168.1.100:8080</u>

| Java Control Panel | o provide /usr/bin/jps (jps) in auto mode o provide /usr/bin/jrunscript (jrun |
|---|---|
| General Java Security Advanced | provide /usr/bin/jsadebugd (jsade |
| 🗹 Enable Java content in the browser | 8 Exception Site List |
| Security level for applications not on the Exception Very High Only Java applications identified by a certificate allowed to run, and only if the certificate can be High Java applications identified by a certificate from to run, even if the revocation status of the certificate | Applications launched from the sites listed below will be allowed to run after the appropriate security prompts. Location Image: Location Image: Location |
| Exception Site List Applications launched from the sites listed below appropriate security prompts. Click Edit Site List | Add Remove FILE and HTTP protocols are considered a security risk. We recommend using HTTPS sites where available. OK Cancel |
| to add items to this list. Workspaces | Edit <u>S</u> ite List |
| <u>R</u> estore Securit | y Prompts Manage Certificates gnu/libpcsclite.so libpcsclite.so |
| | OK Cancel Apply nux-gnu/libpcsclite.so libpcsclite |

Potvrditi izmene sa **OK** u 2 otvorena prozora.

Na kraju je potrebno dodati Firebug kao ekstenziju u Firefox.

Otvoriti Firefox pretrazivac i u pretrazi uneti Firebug

- Kliknuti na prvi link getfirebug.com
- Kliknuti na Install Firebug
- Kliknuti na **Download** ispod poslednjeg "Stable Release-a" Kliknuti na "**Add to Firefox**" pa na "**Install Now**"

| | | Register or Log in Other Applications - MOZILLA |
|------------|---|--|
| | DD-ONS | Software Installation |
| Welcome to | Firefox Add-ons. Choose fro | Install add-ons only from authors whom you trust. Malicious software can damage your computer or violate your privacy. |
| * | Firebug 2.0.13 by Joe Hewitt, Jan Odvark Firebug integrates with fingertips while you br and JavaScript live in a + Add to Firefox | Firebug (Author not verified) https://addon\$.mozilla.org/firefox/downloads/latest/1843/addon-1843-latest.xpi?sr |
| Terminal | Enjoy this add-on? | Cancel Install Now |

U gornjem desnom uglu ekrana kliknuti na ikonicu Firebug-a da bismo je aktivirali

| Se Firebug :: / | u g :: Add-ons Add-ons f | for Firef × 📌 F | ox - Mo irebug | zilla Fire | efox > | × + | | | | | | | | | | | | | | | | | | | | | | |
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| 🗲 🔒 Mozilla F | oundation (US) | https:// | addons. | mozilla.c | org/en- | 1-US/Fir | refox | x/add | don/f | firebu | ıg/ | | | v (| C | 8 | Goo | gle | | | (| Q 2 | ٦ 🗈 | 1 | ŀ | ^ (| 0 | ≡ |
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| FITEBULY 2.0.13 RORESONT by Joe Hewitt, Jan Odvarko, robcee, Firebug Working Group Firebug integrates with Firefox to put a wealth of development tools at your | | | | | | | | | | 1,805 user reviews 2,283,722 users ส์เ | | | | | | | J | | | | | | | | | | | |
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Kliknuti na "-– " kao na slici iznad da bismo minimizovali Firebug

Sa padajuće liste pored ikonice Firebug-a (gonji desni ugao ekrana) čekirati Enable All Panels i On for All Web Pages

Prilikom prvog pokretanja u Heliant informacionom sistemu, na stranici upućivanja pacijenata, potrebno je:

| 😣 😑 🗉 🛛 Institut za onkologiju i radiologiju Srbije - Mozilla Firefox | |
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| 💿 Institut za onkologij 🗙 🥩 Firebug 🛛 🗙 🕂 | |
| | Q ☆ 自 ♣ 斋 ≁ ▼ = |
| Allow to run "Java"? | Continue <u>B</u> locking <u>A</u> llow × |
| • heliant Zdravstveni informacioni sistem (v5.6.4.dev) | admin (dr Admin Administrator) 🖂 |
| | W Kraj rada |
| Upućivanje pacijenta | |
| 😮 Nazad 🛛 Dalje 🜍 🔹 Poništi 🤤 | |
| Pretraga na osnovu broja zdravstvene isprave | |
| Ubuntu Software Center .a: | |
| S Nazad Dalje S Poništi S | |

Kliknuti na **Allow** da se dozvoli pokretanje Java Apleta.

Kliknuti na **Allow and Rember** da se obaveštenje ne bi pojavljivalo prilikom svakog narednog pokretanja.



Kao na slici iznad, označiti "**Do not show this again for apps from the publisher and location above**" i kliknuti **Run**

Čitač kartica na Linux operativnom sistemu Ubuntu 14.04 je ovim uspešno podešen.