Build Server configuration

# Install Java

### Download Site:

<http://www.oracle.com/technetwork/java/javase/downloads/index.html>

Version to download: jdk-11.02\_linux-x64\_bin.tar.gz

x64 for 64 bit systems and tar.gz for Ubuntu Op Systems

### Steps:

1. create a directory in the /usr/lib directory called java

Cd Downloads directory

/Downloads$ sudo tar -xzvf jdk-11.02\_linux-x64\_bin.tar.gz -C /usr/lib/java

X = extract, v= verbose, z= gunzip/unzipping f= extract in filesystem tar= to create and extract tape archives

-C specifies a different directory other than the current working directory

1. Add the file path for java to the /etc/environment file as JAVA\_HOME

Cd /etc

sudo nano environment

#Edit the file with this line.

JAVA\_HOME=”usr/lib/java/jre1.8.0\_201”

1. Next show Ubuntu a link to java

sudo update-alternatives --install "/usr/bin/java" "java" "/usr/lib/java/jre1.8.0\_201/bin/java" 1

Set this version of java as the default

sudo update-alternatives --set java /usr/lib/java/jre1.8.0\_201/bin/java

1. To check that java is install

java -version This should return:

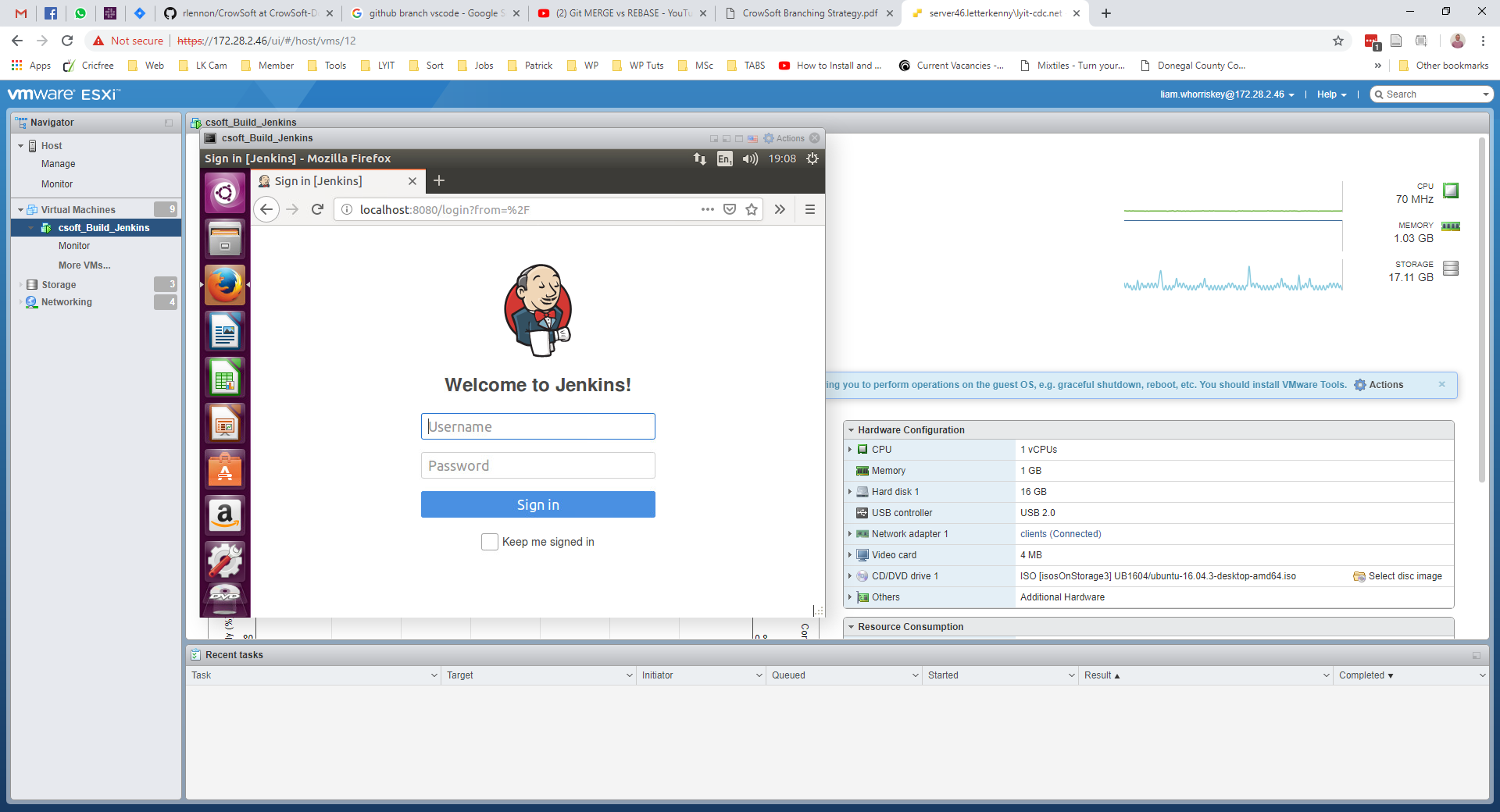
java version "1.8.0\_201"

Java(TM) SE Runtime Environment (build 1.8.0\_201-b09)

Java HotSpot(TM) 64-Bit Server VM (build 25.201-b09, mixed mode)

Installed Vmware tools

# Jenkins



**Jenkins Setup Complete with suggested plugins.**

* Name: Dev Ops
* User: admin
* Pass: lyit2019
* email: [l00113360@student.lyit.ie](mailto:l00113360@student.lyit.ie)
* Jenkins Url: <http://localhost:8080/>

**Plugins Installed**

* Ant Plugin
* Build Timeout
* Email Extension Plugin
* GitHub Branch Source Plugin
* Gradle Plugin
* LDAP Plugin
* Matrix Authorisation Strategy Plugin
* SWASP Markup Formatter Plugin
* PAM Authentication Plugin
* Pipeline
* Pipeline: GitHub Groovy Libraries
* SSH Slaves Plugin
* Subversion plugin
* Timestamper
* Workspace Cleanup Plugin
* Artifactory plugin
* Audit log
* Backup plugin

### Jenkins Security

* Added Users with permissions
* Disabled “Remember Me” option
* Set up Matrix-based security

# Artifactory

Install: JFrog Artifactory-OSS Version 5.8.3. An open source version of JFrog Artifactory

Created: Maven, Gradle and Generic Repositories

Set up: Users with permissions