How to install and configure Xvfb in Linux/Centos

Step to install and configure xvfb :   
  
First check the xvfb install or not   
# yum info xorg-x11-server-Xvfb  
  
**If installed then look like this :**  
[root@server ~]# yum info xorg-x11-server-Xvfb  
Loaded plugins: fastestmirror, refresh-packagekit, security  
Loading mirror speeds from cached hostfile  
 \* base: mirror.leapswitch.com  
 \* epel: mirrors.vinahost.vn  
 \* extras: mirror.leapswitch.com  
 \* rpmforge: mirror-fpt-telecom.fpt.net  
 \* updates: mirror.leapswitch.com  
 \* webtatic: us-east.repo.webtatic.com  
Installed Packages  
Name        : xorg-x11-server-Xvfb  
Arch        : x86\_64  
Version     : 1.13.0  
Release     : 11.1.el6.centos.2  
Size        : 1.8 M  
Repo        : installed  
From repo   : updates  
Summary     : A X Windows System virtual framebuffer X server.  
URL         : [http://www.x.org](http://www.x.org/)  
License     : MIT and GPLv2  
Description : Xvfb (X Virtual Frame Buffer) is an X server that is able to run  
            : on machines with no display hardware and no physical input  
            : devices. Xvfb simulates a dumb framebuffer using virtual memory.  
            : Xvfb does not open any devices, but behaves otherwise as an X  
            : display.  Xvfb is normally used for testing servers.  
[root@server ~]#  
If it's not installed, please install it :  
# yum info xorg-x11-server-Xvfb  
# yum install firefox  
  
check firewall version :  
#firefox -v  
  
Run firefox browser in backend service  :  
  
/usr/bin/Xvfb :1 -screen 0 1024x768x24 &  
export DISPLAY=:1     ( note you can change display number)  
echo 'display is set'  
firefox &

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In server if you check for the installation of the xvfb server using command

yum info xorg-x11-server-Xvfb we will get as

[pentaho@enst01ap22pr data-integration]$ yum info xorg-x11-server-Xvfb

Loaded plugins: amazon-id, langpacks, rhui-lb

Repo rhui-REGION-client-config-server-7 forced skip\_if\_unavailable=True due to: /etc/pki/rhui/cdn.redhat.com-chain.crt

Repo rhui-REGION-client-config-server-7 forced skip\_if\_unavailable=True due to: /etc/pki/rhui/product/rhui-client-config-server-7.crt

Repo rhui-REGION-client-config-server-7 forced skip\_if\_unavailable=True due to: /etc/pki/rhui/rhui-client-config-server-7.key

Repo rhui-REGION-rhel-server-releases forced skip\_if\_unavailable=True due to: /etc/pki/rhui/cdn.redhat.com-chain.crt

Repo rhui-REGION-rhel-server-releases forced skip\_if\_unavailable=True due to: /etc/pki/rhui/product/content-rhel7.crt

Repo rhui-REGION-rhel-server-releases forced skip\_if\_unavailable=True due to: /etc/pki/rhui/content-rhel7.key

Repo rhui-REGION-rhel-server-rh-common forced skip\_if\_unavailable=True due to: /etc/pki/rhui/cdn.redhat.com-chain.crt

Repo rhui-REGION-rhel-server-rh-common forced skip\_if\_unavailable=True due to: /etc/pki/rhui/product/content-rhel7.crt

Repo rhui-REGION-rhel-server-rh-common forced skip\_if\_unavailable=True due to: /etc/pki/rhui/content-rhel7.key

Could not contact CDS load balancer rhui2-cds01.us-east-1.aws.ce.redhat.com, trying others.

Could not contact any CDS load balancers: rhui2-cds01.us-east-1.aws.ce.redhat.com, rhui2-cds02.us-east-1.aws.ce.redhat.com.

Now we have to start xvfb server by setting screen using command

Xvfb :1 -screen 0 800x600x24&

Or Xvfb :1 -screen 0 1024x768x24 &

Now set Display variable as

export DISPLAY=localhost:1.0

we can print display variable using command

echo $DISPLAY

Now you can run ETL to download files.

In the ETL I have created a jar to download file. To download you have to pass these parameters year,month,filename,directory,url,excount to the respective market class.

Eg:

**import** SPPDAFILESDOWNLOAD.\*;

String messageField;

**public boolean** processRow(StepMetaInterface smi, StepDataInterface sdi) **throws** KettleException

{

Object[] r=getRow();

**if** (r==null)

{

setOutputDone();

**return** false;

}

**if** (first) {

messageField = getParameter("MESSAGE\_FIELD");

first=false;

}

Object[] outputRow = createOutputRow(r, data.outputRowMeta.size());

String message="downloaded";

get(Fields.Out, messageField).setValue(outputRow, message);

putRow(data.outputRowMeta, outputRow);

**int** excount=0;

//String directory="F:\\testing\\test2\\";

String directory="/usr/local/data/bi\_data/SPP/dayahead\_regulation\_temp/";

String url="https://marketplace.spp.org/web/guest/mcp";

String year = get(Fields.In, "year").getString(r);

String month = get(Fields.In, "month").getString(r);

String filename1 = get(Fields.In, "filename").getString(r);

String[] filename=filename1.split(",");

//String[] filename={"RTBM-MCP-201501010005.csv","RTBM-MCP-201501010010.csv"};

**try**{

SppDAFilesAuto sppDaFilesAuto=**new** SppDAFilesAuto();

sppDaFilesAuto.navigate(year,month,filename,directory,url,excount);

}**catch**(Exception e){

message=e.getMessage();

get(Fields.Out, messageField).setValue(outputRow, message);

putRow(data.outputRowMeta, outputRow);

}

**return** true;

}

Methods will catch error if any error.

Reference:

<http://corpocrat.com/2008/08/19/how-to-install-xvfb-x11-server-in-linux-server/>

<http://ithubinfo.blogspot.in/2013/11/how-to-install-and-configure-xvfb-in.html>