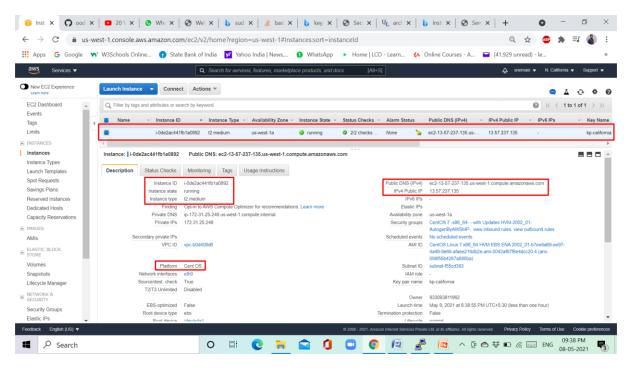
AWS Project: -15

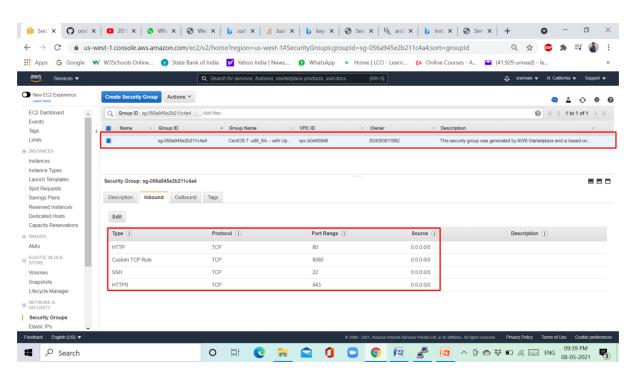
Project Date: - 08.05.2021

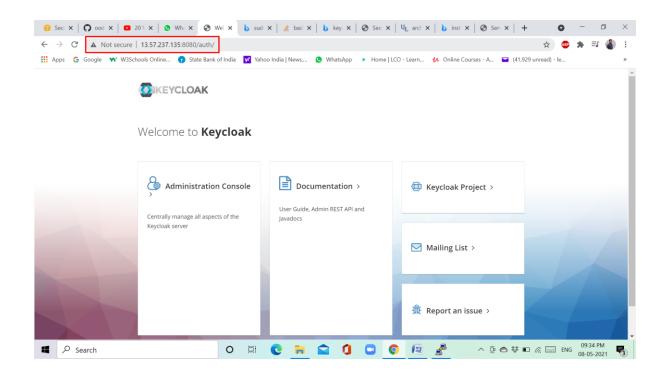
Prepared by: - Sarveswara Sarma Nemani

Q:- Create Open Source Identity and Access Management server - **Keycloak** install using centos7 AMI

Sol:







Terminal Logs: -

login as: centos

Authenticating with public key "imported-openssh-key"

[centos@ip-172-31-25-248 \sim]\$ sudo -i

[root@ip-172-31-25-248 ~]# cd /opt

[root@ip-172-31-25-248 opt]# yum install wget -y

Loaded plugins: fastestmirror Determining fastest mirrors

- * base: d36uatko69830t.cloudfront.net
- * extras: d36uatko69830t.cloudfront.net
- * updates: d36uatko69830t.cloudfront.net

base | 3.6 kB 00:00 extras | 2.9 kB 00:00 updates | 2.9 kB 00:00

 (1/4): base/7/x86_64/group_gz
 | 153 kB 00:00

 (2/4): extras/7/x86_64/primary_db
 | 236 kB 00:00

 (3/4): updates/7/x86_64/primary_db
 | 8.0 MB 00:00

 (4/4): base/7/x86_64/primary_db
 | 6.1 MB 00:00

Resolving Dependencies

- --> Running transaction check
- ---> Package wget.x86_64 0:1.14-18.el7_6.1 will be installed
- --> Finished Dependency Resolution

Dependencies Resolved

==========

Package Arch Version Repository Size

==========

Installing:

wget x86_64 1.14-18.el7_6.1 base 547 k

Transaction Summary

=========

Install 1 Package

Total download size: 547 k

Installed size: 2.0 M Downloading packages:

warning: /var/cache/yum/x86_64/7/base/packages/wget-1.14-18.el7_6.1.x86_64.rpm: Header V3

RSA/SHA256 Signature, key ID f4a80eb5: NOKEY

Public key for wget-1.14-18.el7_6.1.x86_64.rpm is not installed

wget-1.14-18.el7 6.1.x86 64.rpm

| 547 kB 00:00

Retrieving key from file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7

Importing GPG key 0xF4A80EB5:

Userid : "CentOS-7 Key (CentOS 7 Official Signing Key) <security@centos.org>"

Fingerprint: 6341 ab27 53d7 8a78 a7c2 7bb1 24c6 a8a7 f4a8 0eb5 Package : centos-release-7-7.1908.0.el7.centos.x86 64 (installed)

From:/etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7

Running transaction check Running transaction test Transaction test succeeded

Running transaction

Installing : wget-1.14-18.el7_6.1.x86_64 1/1 Verifying : wget-1.14-18.el7_6.1.x86_64 1/1

Installed:

wget.x86_64 0:1.14-18.el7_6.1

Complete!

[root@ip-172-31-25-248 opt]# sudo wget https://downloads.jboss.org/keycloak/9.0.0/keycloak-9.0.0.tar.gz

--2021-05-08 15:12:03-- https://downloads.jboss.org/keycloak/9.0.0/keycloak-9.0.0.tar.gz Resolving downloads.jboss.org (downloads.jboss.org)... 23.66.122.58, 23.66.122.41, 2600:1406:8400::1725:7fb2, ...

Connecting to downloads.jboss.org (downloads.jboss.org)|23.66.122.58|:443... connected.

HTTP request sent, awaiting response... 200 OK Length: 226566350 (216M) [application/x-qzip]

Saving to: 'keycloak-9.0.0.tar.gz'

2021-05-08 15:12:05 (115 MB/s) - 'keycloak-9.0.0.tar.gz' saved [226566350/226566350]

[root@ip-172-31-25-248 opt]# sudo tar xzf keycloak-9.0.0.tar.gz

[root@ip-172-31-25-248 opt]# sudo groupadd -r keycloak

[root@ip-172-31-25-248 opt]# sudo useradd -m -d /var/lib/keycloak -s /sbin/nologin -r -g keycloak keycloak

[root@ip-172-31-25-248 opt]# sudo chown keycloak: -R keycloak-9.0.0

[root@ip-172-31-25-248 opt]# cd keycloak-9.0.0

[root@ip-172-31-25-248 keycloak-9.0.0]# sudo -u keycloak chmod 700 standalone [root@ip-172-31-25-248 keycloak-9.0.0]# sudo yum install java-1.8.0-openjdk-devel

Loaded plugins: fastestmirror

Loading mirror speeds from cached hostfile

- * base: d36uatko69830t.cloudfront.net
- * extras: d36uatko69830t.cloudfront.net
- * updates: d36uatko69830t.cloudfront.net

Resolving Dependencies

- --> Running transaction check
- ---> Package java-1.8.0-openjdk-devel.x86 64 1:1.8.0.292.b10-1.el7 9 will be installed
- --> Processing Dependency: java-1.8.0-openjdk(x86-64) = 1:1.8.0.292.b10-1.el7_9 for package: 1:java-1.8.0-openjdk-devel-1.8.0.292.b10-1.el7_9.x86_64
- --> Processing Dependency: libjvm.so()(64bit) for package: 1:java-1.8.0-openjdk-devel-1.8.0.292.b10-1.el7 9.x86 64
- --> Processing Dependency: libjava.so()(64bit) for package: 1:java-1.8.0-openjdk-devel-1.8.0.292.b10-1.el7_9.x86_64
- --> Processing Dependency: libX11.so.6()(64bit) for package: 1:java-1.8.0-openjdk-devel-1.8.0.292.b10-1.el7 9.x86 64
- --> Running transaction check
- ---> Package java-1.8.0-openjdk.x86_64 1:1.8.0.292.b10-1.el7_9 will be installed
- --> Processing Dependency: xorg-x11-fonts-Type1 for package: 1:java-1.8.0-openjdk-1.8.0.292.b10-1.el7 9.x86 64
- --> Processing Dependency: libjpeg.so.62(LIBJPEG_6.2)(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.292.b10-1.el7_9.x86_64
- --> Processing Dependency: libasound.so.2(ALSA_0.9.0rc4)(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.292.b10-1.el7_9.x86_64
- --> Processing Dependency: libasound.so.2(ALSA_0.9)(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.292.b10-1.el7_9.x86_64
- --> Processing Dependency: libXcomposite(x86-64) for package: 1:java-1.8.0-openjdk-1.8.0.292.b10-1.el7_9.x86_64
- --> Processing Dependency: gtk2(x86-64) for package: 1:java-1.8.0-openjdk-1.8.0.292.b10-1.el7_9.x86_64
- --> Processing Dependency: fontconfig(x86-64) for package: 1:java-1.8.0-openjdk-1.8.0.292.b10-1.el7 9.x86 64
- --> Processing Dependency: libjpeg.so.62()(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.292.b10-1.el7 9.x86 64
- --> Processing Dependency: libgif.so.4()(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.292.b10-1.el7 9.x86 64
- --> Processing Dependency: libasound.so.2()(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.292.b10-1.el7 9.x86 64
- --> Processing Dependency: libXtst.so.6()(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.292.b10-1.el7 9.x86 64
- --> Processing Dependency: libXrender.so.1()(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.292.b10-1.el7_9.x86_64
- --> Processing Dependency: libXi.so.6()(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.292.b10-1.el7 9.x86 64
- --> Processing Dependency: libXext.so.6()(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.292.b10-1.el7_9.x86_64
- ---> Package java-1.8.0-openjdk-headless.x86 64 1:1.8.0.292.b10-1.el7 9 will be installed
- --> Processing Dependency: tzdata-java >= 2021a for package: 1:java-1.8.0-openjdk-headless-1.8.0.292.b10-1.el7_9.x86_64
- --> Processing Dependency: copy-jdk-configs >= 3.3 for package: 1:java-1.8.0-openjdk-headless-1.8.0.292.b10-1.el7_9.x86_64

- --> Processing Dependency: pcsc-lite-libs(x86-64) for package: 1:java-1.8.0-openjdk-headless-1.8.0.292.b10-1.el7_9.x86_64
- --> Processing Dependency: lksctp-tools(x86-64) for package: 1:java-1.8.0-openjdk-headless-1.8.0.292.b10-1.el7_9.x86_64
- --> Processing Dependency: jpackage-utils for package: 1:java-1.8.0-openjdk-headless-1.8.0.292.b10-1.el7_9.x86_64
- --> Processing Dependency: cups-libs(x86-64) for package: 1:java-1.8.0-openjdk-headless-1.8.0.292.b10-1.el7_9.x86_64
- ---> Package libX11.x86_64 0:1.6.7-3.el7_9 will be installed
- --> Processing Dependency: libX11-common >= 1.6.7-3.el7_9 for package: libX11-1.6.7-3.el7_9.x86_64
- --> Processing Dependency: libxcb.so.1()(64bit) for package: libX11-1.6.7-3.el7_9.x86_64
- --> Running transaction check
- ---> Package alsa-lib.x86_64 0:1.1.8-1.el7 will be installed
- ---> Package copy-jdk-configs.noarch 0:3.3-10.el7_5 will be installed
- ---> Package cups-libs.x86_64 1:1.6.3-51.el7 will be installed
- --> Processing Dependency: libavahi-common.so.3()(64bit) for package: 1:cups-libs-1.6.3-51.el7.x86_64
- --> Processing Dependency: libavahi-client.so.3()(64bit) for package: 1:cups-libs-1.6.3-51.el7.x86_64
- ---> Package fontconfig.x86_64 0:2.13.0-4.3.el7 will be installed
- --> Processing Dependency: fontpackages-filesystem for package: fontconfig-2.13.0-4.3.el7.x86_64
- --> Processing Dependency: dejavu-sans-fonts for package: fontconfig-2.13.0-4.3.el7.x86_64
- ---> Package giflib.x86_64 0:4.1.6-9.el7 will be installed
- --> Processing Dependency: libSM.so.6()(64bit) for package: giflib-4.1.6-9.el7.x86_64
- --> Processing Dependency: libICE.so.6()(64bit) for package: giflib-4.1.6-9.el7.x86_64
- ---> Package gtk2.x86_64 0:2.24.31-1.el7 will be installed
- --> Processing Dependency: pango >= 1.20.0-1 for package: gtk2-2.24.31-1.el7.x86_64
- --> Processing Dependency: libtiff >= 3.6.1 for package: gtk2-2.24.31-1.el7.x86_64
- --> Processing Dependency: libXrandr >= 1.2.99.4-2 for package: gtk2-2.24.31-1.el7.x86_64
- --> Processing Dependency: atk >= 1.29.4-2 for package: gtk2-2.24.31-1.el7.x86_64
- --> Processing Dependency: hicolor-icon-theme for package: gtk2-2.24.31-1.el7.x86_64
- --> Processing Dependency: gtk-update-icon-cache for package: gtk2-2.24.31-1.el7.x86_64
- --> Processing Dependency: libpangoft2-1.0.so.0()(64bit) for package: gtk2-2.24.31-1.el7.x86_64
- --> Processing Dependency: libpangocairo-1.0.so.0()(64bit) for package: gtk2-2.24.31-1.el7.x86_64
- --> Processing Dependency: libpango-1.0.so.0()(64bit) for package: gtk2-2.24.31-1.el7.x86_64
- --> Processing Dependency: libgdk_pixbuf-2.0.so.0()(64bit) for package: gtk2-2.24.31-1.el7.x86_64
- --> Processing Dependency: libcairo.so.2()(64bit) for package: gtk2-2.24.31-1.el7.x86_64
- --> Processing Dependency: libatk-1.0.so.0()(64bit) for package: qtk2-2.24.31-1.el7.x86_64
- --> Processing Dependency: libXrandr.so.2()(64bit) for package: gtk2-2.24.31-1.el7.x86_64
- --> Processing Dependency: libXinerama.so.1()(64bit) for package: gtk2-2.24.31-1.el7.x86_64
- --> Processing Dependency: libXfixes.so.3()(64bit) for package: qtk2-2.24.31-1.el7.x86_64
- --> Processing Dependency: libXdamage.so.1()(64bit) for package: gtk2-2.24.31-1.el7.x86_64
- --> Processing Dependency: libXcursor.so.1()(64bit) for package: gtk2-2.24.31-1.el7.x86_64
- ---> Package javapackages-tools.noarch 0:3.4.1-11.el7 will be installed
- --> Processing Dependency: python-javapackages = 3.4.1-11.el7 for package: javapackages-tools-3.4.1-11.el7.noarch
- --> Processing Dependency: libxslt for package: javapackages-tools-3.4.1-11.el7.noarch
- ---> Package libX11-common.noarch 0:1.6.7-3.el7_9 will be installed
- ---> Package libXcomposite.x86_64 0:0.4.4-4.1.el7 will be installed
- ---> Package libXext.x86 64 0:1.3.3-3.el7 will be installed
- ---> Package libXi.x86 64 0:1.7.9-1.el7 will be installed
- ---> Package libXrender.x86_64 0:0.9.10-1.el7 will be installed
- ---> Package libXtst.x86_64 0:1.2.3-1.el7 will be installed
- ---> Package libjpeg-turbo.x86_64 0:1.2.90-8.el7 will be installed
- ---> Package libxcb.x86_64 0:1.13-1.el7 will be installed

- --> Processing Dependency: libXau.so.6()(64bit) for package: libxcb-1.13-1.el7.x86_64
- ---> Package lksctp-tools.x86_64 0:1.0.17-2.el7 will be installed
- ---> Package pcsc-lite-libs.x86_64 0:1.8.8-8.el7 will be installed
- ---> Package tzdata-java.noarch 0:2021a-1.el7 will be installed
- ---> Package xorg-x11-fonts-Type1.noarch 0:7.5-9.el7 will be installed
- --> Processing Dependency: ttmkfdir for package: xorg-x11-fonts-Type1-7.5-9.el7.noarch
- --> Processing Dependency: ttmkfdir for package: xorg-x11-fonts-Type1-7.5-9.el7.noarch
- --> Processing Dependency: mkfontdir for package: xorg-x11-fonts-Type1-7.5-9.el7.noarch
- --> Processing Dependency: mkfontdir for package: xorg-x11-fonts-Type1-7.5-9.el7.noarch
- --> Running transaction check
- ---> Package atk.x86_64 0:2.28.1-2.el7 will be installed
- ---> Package avahi-libs.x86_64 0:0.6.31-20.el7 will be installed
- ---> Package cairo.x86_64 0:1.15.12-4.el7 will be installed
- --> Processing Dependency: libpixman-1.so.0()(64bit) for package: cairo-1.15.12-4.el7.x86_64
- --> Processing Dependency: libGL.so.1()(64bit) for package: cairo-1.15.12-4.el7.x86_64
- --> Processing Dependency: libEGL.so.1()(64bit) for package: cairo-1.15.12-4.el7.x86_64
- ---> Package dejavu-sans-fonts.noarch 0:2.33-6.el7 will be installed
- --> Processing Dependency: dejavu-fonts-common = 2.33-6.el7 for package: dejavu-sans-fonts-2.33-6.el7.noarch
- ---> Package fontpackages-filesystem.noarch 0:1.44-8.el7 will be installed
- ---> Package gdk-pixbuf2.x86_64 0:2.36.12-3.el7 will be installed
- --> Processing Dependency: libjasper.so.1()(64bit) for package: gdk-pixbuf2-2.36.12-3.el7.x86_64
- ---> Package gtk-update-icon-cache.x86_64 0:3.22.30-6.el7 will be installed
- ---> Package hicolor-icon-theme.noarch 0:0.12-7.el7 will be installed
- ---> Package libICE.x86_64 0:1.0.9-9.el7 will be installed
- ---> Package libSM.x86 64 0:1.2.2-2.el7 will be installed
- ---> Package libXau.x86_64 0:1.0.8-2.1.el7 will be installed
- ---> Package libXcursor.x86_64 0:1.1.15-1.el7 will be installed
- ---> Package libXdamage.x86_64 0:1.1.4-4.1.el7 will be installed
- ---> Package libXfixes.x86_64 0:5.0.3-1.el7 will be installed
- ---> Package libXinerama.x86_64 0:1.1.3-2.1.el7 will be installed
- ---> Package libXrandr.x86_64 0:1.5.1-2.el7 will be installed
- ---> Package libtiff.x86_64 0:4.0.3-35.el7 will be installed
- --> Processing Dependency: libjbig.so.2.0()(64bit) for package: libtiff-4.0.3-35.el7.x86_64
- ---> Package libxslt.x86_64 0:1.1.28-6.el7 will be installed
- ---> Package pango.x86_64 0:1.42.4-4.el7_7 will be installed
- --> Processing Dependency: libthai(x86-64) >= 0.1.9 for package: pango-1.42.4-4.el7_7.x86_64
- --> Processing Dependency: libXft(x86-64) >= 2.0.0 for package: pango-1.42.4-4.el7_7.x86_64
- --> Processing Dependency: harfbuzz(x86-64) >= 1.4.2 for package: pango-1.42.4-4.el7_7.x86_64
- --> Processing Dependency: fribidi(x86-64) >= 1.0 for package: pango-1.42.4-4.el7_7.x86_64
- --> Processing Dependency: libthai.so.0(LIBTHAI_0.1)(64bit) for package: pango-1.42.4-4.el7_7.x86_64
- --> Processing Dependency: libthai.so.0()(64bit) for package: pango-1.42.4-4.el7_7.x86_64
- --> Processing Dependency: libharfbuzz.so.0()(64bit) for package: pango-1.42.4-4.el7_7.x86_64
- --> Processing Dependency: libfribidi.so.0()(64bit) for package: pango-1.42.4-4.el7_7.x86_64
- --> Processing Dependency: libXft.so.2()(64bit) for package: pango-1.42.4-4.el7_7.x86_64
- ---> Package python-javapackages.noarch 0:3.4.1-11.el7 will be installed
- --> Processing Dependency: python-lxml for package: python-javapackages-3.4.1-11.el7.noarch
- ---> Package ttmkfdir.x86_64 0:3.0.9-42.el7 will be installed
- ---> Package xorg-x11-font-utils.x86 64 1:7.5-21.el7 will be installed
- --> Processing Dependency: libfontenc.so.1()(64bit) for package: 1:xorg-x11-font-utils-7.5-21.el7.x86_64
- --> Running transaction check
- ---> Package dejavu-fonts-common.noarch 0:2.33-6.el7 will be installed
- ---> Package fribidi.x86_64 0:1.0.2-1.el7_7.1 will be installed

- ---> Package harfbuzz.x86_64 0:1.7.5-2.el7 will be installed
- --> Processing Dependency: libgraphite2.so.3()(64bit) for package: harfbuzz-1.7.5-2.el7.x86_64
- ---> Package jasper-libs.x86_64 0:1.900.1-33.el7 will be installed
- ---> Package jbigkit-libs.x86_64 0:2.0-11.el7 will be installed
- ---> Package libXft.x86_64 0:2.3.2-2.el7 will be installed
- ---> Package libfontenc.x86_64 0:1.1.3-3.el7 will be installed
- ---> Package libglvnd-egl.x86_64 1:1.0.1-0.8.git5baa1e5.el7 will be installed
- --> Processing Dependency: libglvnd(x86-64) = 1:1.0.1-0.8.git5baa1e5.el7 for package: $1:libglvnd-egl-1.0.1-0.8.git5baa1e5.el7.x86_64$
- --> Processing Dependency: mesa-libEGL(x86-64) >= 13.0.4-1 for package: 1:libglvnd-egl-1.0.1-0.8.qit5baa1e5.el7.x86-64
- --> Processing Dependency: libGLdispatch.so.0()(64bit) for package: 1:libglvnd-egl-1.0.1-0.8.qit5baa1e5.el7.x86_64
- ---> Package libglvnd-glx.x86_64 1:1.0.1-0.8.git5baa1e5.el7 will be installed
- --> Processing Dependency: mesa-libGL(x86-64) >= 13.0.4-1 for package: 1:libglvnd-glx-1.0.1-0.8.git5baa1e5.el7.x86_64
- ---> Package libthai.x86_64 0:0.1.14-9.el7 will be installed
- ---> Package pixman.x86_64 0:0.34.0-1.el7 will be installed
- ---> Package python-lxml.x86_64 0:3.2.1-4.el7 will be installed
- --> Running transaction check
- ---> Package graphite2.x86_64 0:1.3.10-1.el7_3 will be installed
- ---> Package libglvnd.x86_64 1:1.0.1-0.8.git5baa1e5.el7 will be installed
- ---> Package mesa-libEGL.x86_64 0:18.3.4-12.el7_9 will be installed
- --> Processing Dependency: mesa-libgbm = 18.3.4-12.el7_9 for package: mesa-libEGL-18.3.4-12.el7_9.x86_64
- --> Processing Dependency: libxshmfence.so.1()(64bit) for package: mesa-libEGL-18.3.4-12.el7_9.x86_64
- --> Processing Dependency: libwayland-server.so.0()(64bit) for package: mesa-libEGL-18.3.4-12.el7_9.x86_64
- --> Processing Dependency: libwayland-client.so.0()(64bit) for package: mesa-libEGL-18.3.4-12.el7_9.x86_64
- --> Processing Dependency: libglapi.so.0()(64bit) for package: mesa-libEGL-18.3.4-12.el7_9.x86_64
- --> Processing Dependency: libgbm.so.1()(64bit) for package: mesa-libEGL-18.3.4-12.el7_9.x86_64
- --> Processing Dependency: libdrm.so.2()(64bit) for package: mesa-libEGL-18.3.4-12.el7_9.x86_64
- ---> Package mesa-libGL.x86_64 0:18.3.4-12.el7_9 will be installed
- --> Processing Dependency: libXxf86vm.so.1()(64bit) for package: mesa-libGL-18.3.4-12.el7_9.x86_64
- --> Running transaction check
- ---> Package libXxf86vm.x86_64 0:1.1.4-1.el7 will be installed
- ---> Package libdrm.x86_64 0:2.4.97-2.el7 will be installed
- --> Processing Dependency: libpciaccess.so.0()(64bit) for package: libdrm-2.4.97-2.el7.x86_64
- ---> Package libwayland-client.x86_64 0:1.15.0-1.el7 will be installed
- ---> Package libwayland-server.x86_64 0:1.15.0-1.el7 will be installed
- ---> Package libxshmfence.x86_64 0:1.2-1.el7 will be installed
- ---> Package mesa-libgbm.x86_64 0:18.3.4-12.el7_9 will be installed
- ---> Package mesa-libglapi.x86_64 0:18.3.4-12.el7_9 will be installed
- --> Running transaction check

Dependencies Resolved

- ---> Package libpciaccess.x86_64 0:0.14-1.el7 will be installed
- --> Finished Dependency Resolution

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Package Arch Version Repository

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Installing:

java-1.8.0-openjdk-devel x86_64 1:1.8.0.292.b10-1.el7_9 updates 9.8 M

Installing for dependencies:

alsa-lib x86 64 1.1.8-1.el7 base 425 k atk x86_64 2.28.1-2.el7 base 263 k avahi-libs x86_64 0.6.31-20.el7 base 62 k cairo x86 64 1.15.12-4.el7 base 741 k copy-jdk-configs noarch 3.3-10.el7_5 base 21 k cups-libs x86_64 1:1.6.3-51.el7 359 k base dejavu-fonts-common noarch 2.33-6.el7 base 64 k

dejavu-sans-fonts noarch 2.33-6.el7 base 1.4 M fontconfig x86_64 2.13.0-4.3.el7 base 254 k fontpackages-filesystem noarch 1.44-8.el7 base 9.9 k

fribidi x86_64 1.0.2-1.el7_7.1 base 79 k

gdk-pixbuf2 x86_64 2.36.12-3.el7 base 570 k giflib x86_64 4.1.6-9.el7 base 40 k

graphite2 x86_64 1.3.10-1.el7_3 base 115 k

 gtk-update-icon-cache
 x86_64 3.22.30-6.el7
 updates 27 k

 gtk2
 x86_64 2.24.31-1.el7
 base 3.4 M

 harfbuzz
 x86_64 1.7.5-2.el7
 base 267 k

hicolor-icon-theme noarch 0.12-7.el7 base 42 k jasper-libs x86_64 1.900.1-33.el7 base 150 k

java-1.8.0-openjdk x86_64 1:1.8.0.292.b10-1.el7_9 updates 310 k

java-1.8.0-openjdk-headless x86_64 1:1.8.0.292.b10-1.el7_9 updates 33 M

javapackages-tools noarch 3.4.1-11.el7 base 73 k jbigkit-libs x86 64 2.0-11.el7 46 k base libICE x86 64 1.0.9-9.el7 base 66 k 39 k libSM x86 64 1.2.2-2.el7 base libX11 x86_64 1.6.7-3.el7_9 updates 607 k

libX11-common noarch 1.6.7-3.el7_9 updates 164 k

libXau x86_64 1.0.8-2.1.el7 base 29 k x86_64 0.4.4-4.1.el7 22 k libXcomposite base 30 k libXcursor x86 64 1.1.15-1.el7 base libXdamage x86 64 1.1.4-4.1.el7 base 20 k libXext x86 64 1.3.3-3.el7 39 k base libXfixes x86_64 5.0.3-1.el7 base 18 k libXft x86 64 2.3.2-2.el7 58 k base 40 k libXi x86 64 1.7.9-1.el7 base 14 k

libXinerama x86 64 1.1.3-2.1.el7 base libXrandr x86_64 1.5.1-2.el7 base 27 k libXrender x86_64 0.9.10-1.el7 26 k base libXtst x86 64 1.2.3-1.el7 base 20 k libXxf86vm x86 64 1.1.4-1.el7 base 18 k libdrm x86_64 2.4.97-2.el7 base 151 k libfontenc x86_64 1.1.3-3.el7 base 31 k

libglvnd x86_64 1:1.0.1-0.8.git5baa1e5.el7 base 89 k libglvnd-egl x86_64 1:1.0.1-0.8.git5baa1e5.el7 base 44 k

libglvnd-glx x86_64 1:1.0.1-0.8.git5baa1e5.el7 base 125 k libjpeg-turbo x86_64 1.2.90-8.el7 base 135 k

libpciaccess x86_64 0.14-1.el7 base 26 k libthai x86_64 0.1.14-9.el7 base 187 k

libtiff	x86_64 4.0.3-35.el7	base 172 k
libwayland-client	x86_64 1.15.0-1.el7	base 33 k
libwayland-server	x86_64 1.15.0-1.el7	base 39 k
libxcb	x86_64 1.13-1.el7	base 214 k
libxshmfence	x86_64 1.2-1.el7	base 7.2 k
libxslt	x86_64 1.1.28-6.el7	base 242 k
lksctp-tools	x86_64 1.0.17-2.el7	base 88 k
mesa-libEGL	x86_64 18.3.4-12.el7_9	updates 110 k
mesa-libGL	x86_64 18.3.4-12.el7_9	updates 166 k
mesa-libgbm	x86_64 18.3.4-12.el7_9	updates 39 k
mesa-libglapi	x86_64 18.3.4-12.el7_9	updates 46 k
pango	x86_64 1.42.4-4.el7_7	base 280 k
pcsc-lite-libs	x86_64 1.8.8-8.el7	base 34 k
pixman	x86_64 0.34.0-1.el7	base 248 k
python-javapacka	ges noarch 3.4.1-11.el7	base 31 k
python-lxml	x86_64 3.2.1-4.el7	base 758 k
ttmkfdir	x86_64 3.0.9-42.el7	base 48 k
tzdata-java	noarch 2021a-1.el7	updates 191 k
xorg-x11-font-uti	ls x86_64 1:7.5-21.el7	base 104 k
xorg-x11-fonts-Ty	/pe1 noarch 7.5-9.el7	base 521 k

Transaction Summary

===========

Install 1 Package (+68 Dependent packages)

Total download size: 57 M Installed size: 195 M Is this ok [y/d/N]: y Downloading packages:

(1/69): atk-2.28.1-2.el7.x86_64.rpm | 263 kB 00:00 (2/69): alsa-lib-1.1.8-1.el7.x86_64.rpm | 425 kB 00:00 (3/69): avahi-libs-0.6.31-20.el7.x86_64.rpm | 62 kB 00:00 | 21 kB 00:00 (4/69): copy-jdk-configs-3.3-10.el7_5.noarch.rpm | 359 kB 00:00 (5/69): cups-libs-1.6.3-51.el7.x86_64.rpm | 741 kB 00:00 (6/69): cairo-1.15.12-4.el7.x86_64.rpm (7/69): dejavu-fonts-common-2.33-6.el7.noarch.rpm | 64 kB 00:00 (8/69): fontconfig-2.13.0-4.3.el7.x86_64.rpm | 254 kB 00:00 (9/69): fontpackages-filesystem-1.44-8.el7.noarch.rpm 9.9 kB 00:00 (10/69): fribidi-1.0.2-1.el7_7.1.x86_64.rpm | 79 kB 00:00 (11/69): dejavu-sans-fonts-2.33-6.el7.noarch.rpm 1.4 MB 00:00 (12/69): gdk-pixbuf2-2.36.12-3.el7.x86_64.rpm | 570 kB 00:00 (13/69): giflib-4.1.6-9.el7.x86_64.rpm | 40 kB 00:00 (14/69): graphite2-1.3.10-1.el7_3.x86_64.rpm | 115 kB 00:00 (15/69): harfbuzz-1.7.5-2.el7.x86_64.rpm | 267 kB 00:00 | 42 kB 00:00 (16/69): hicolor-icon-theme-0.12-7.el7.noarch.rpm (17/69): gtk-update-icon-cache-3.22.30-6.el7.x86_64.rpm | 27 kB 00:00 (18/69): jasper-libs-1.900.1-33.el7.x86_64.rpm | 150 kB 00:00 (19/69): java-1.8.0-openjdk-1.8.0.292.b10-1.el7_9.x86_64.r | 310 kB 00:00 (20/69): gtk2-2.24.31-1.el7.x86_64.rpm | 3.4 MB 00:00 | 46 kB 00:00 (21/69): jbigkit-libs-2.0-11.el7.x86_64.rpm (22/69): javapackages-tools-3.4.1-11.el7.noarch.rpm | 73 kB 00:00 | 39 kB 00:00 (23/69): libSM-1.2.2-2.el7.x86_64.rpm

(24/69): java-1.8.0-openjdk-devel-1.8.0.292.b10-1.el7_9.x8 | 9.8 MB 00:00

```
(25/69): libX11-common-1.6.7-3.el7_9.noarch.rpm
                                                        | 164 kB 00:00
(26/69): libXcomposite-0.4.4-4.1.el7.x86_64.rpm
                                                      | 22 kB 00:00
(27/69): libXcursor-1.1.15-1.el7.x86 64.rpm
                                                   | 30 kB 00:00
(28/69): libXdamage-1.1.4-4.1.el7.x86_64.rpm
                                                     | 20 kB 00:00
(29/69): libXext-1.3.3-3.el7.x86_64.rpm
                                                  | 39 kB 00:00
(30/69): libXfixes-5.0.3-1.el7.x86_64.rpm
                                                  | 18 kB 00:00
(31/69): libXft-2.3.2-2.el7.x86_64.rpm
                                                 | 58 kB 00:00
(32/69): libXau-1.0.8-2.1.el7.x86_64.rpm
                                                  | 29 kB 00:00
(33/69): libXinerama-1.1.3-2.1.el7.x86_64.rpm
                                                     | 14 kB 00:00
(34/69): libXi-1.7.9-1.el7.x86 64.rpm
                                                | 40 kB 00:00
(35/69): libXrandr-1.5.1-2.el7.x86_64.rpm
                                                   | 27 kB 00:00
(36/69): libXrender-0.9.10-1.el7.x86_64.rpm
                                                    | 26 kB 00:00
(37/69): libXtst-1.2.3-1.el7.x86_64.rpm
                                                 | 20 kB 00:00
(38/69): libXxf86vm-1.1.4-1.el7.x86 64.rpm
                                                    | 18 kB 00:00
(39/69): libfontenc-1.1.3-3.el7.x86_64.rpm
                                                   | 31 kB 00:00
(40/69): libdrm-2.4.97-2.el7.x86_64.rpm
                                                  | 151 kB 00:00
(41/69): libglvnd-1.0.1-0.8.git5baa1e5.el7.x86 64.rpm
                                                       | 89 kB 00:00
(42/69): libglvnd-egl-1.0.1-0.8.git5baa1e5.el7.x86 64.rpm | 44 kB 00:00
(43/69): libglvnd-glx-1.0.1-0.8.git5baa1e5.el7.x86_64.rpm | 125 kB 00:00
(44/69): libpciaccess-0.14-1.el7.x86_64.rpm
                                                   | 26 kB 00:00
(45/69): libjpeg-turbo-1.2.90-8.el7.x86_64.rpm
                                                     | 135 kB 00:00
                                                 | 187 kB 00:00
(46/69): libthai-0.1.14-9.el7.x86 64.rpm
(47/69): libtiff-4.0.3-35.el7.x86 64.rpm
                                                 | 172 kB 00:00
(48/69): libwayland-client-1.15.0-1.el7.x86_64.rpm
                                                      | 33 kB 00:00
(49/69): libwayland-server-1.15.0-1.el7.x86_64.rpm
                                                       | 39 kB 00:00
(50/69): libxshmfence-1.2-1.el7.x86 64.rpm
                                                    | 7.2 kB 00:00
(51/69): libxcb-1.13-1.el7.x86 64.rpm
                                                 | 214 kB 00:00
(52/69): lksctp-tools-1.0.17-2.el7.x86_64.rpm
                                                    | 88 kB 00:00
(53/69): libxslt-1.1.28-6.el7.x86_64.rpm
                                                 | 242 kB 00:00
(54/69): mesa-libEGL-18.3.4-12.el7_9.x86_64.rpm
                                                       | 110 kB 00:00
(55/69): libICE-1.0.9-9.el7.x86 64.rpm
                                                 | 66 kB 00:00
(56/69): mesa-libGL-18.3.4-12.el7_9.x86_64.rpm
                                                      | 166 kB 00:00
(57/69): mesa-libgbm-18.3.4-12.el7_9.x86_64.rpm
                                                       | 39 kB 00:00
(58/69): mesa-libglapi-18.3.4-12.el7_9.x86_64.rpm
                                                       | 46 kB 00:00
(59/69): pango-1.42.4-4.el7_7.x86_64.rpm
                                                    | 280 kB 00:00
(60/69): pcsc-lite-libs-1.8.8-8.el7.x86_64.rpm
                                                   | 34 kB 00:00
(61/69): python-javapackages-3.4.1-11.el7.noarch.rpm
                                                         | 31 kB 00:00
(62/69): ttmkfdir-3.0.9-42.el7.x86_64.rpm
                                                   | 48 kB 00:00
(63/69): tzdata-java-2021a-1.el7.noarch.rpm
                                                     | 191 kB 00:00
(64/69): python-lxml-3.2.1-4.el7.x86_64.rpm
                                                    | 758 kB 00:00
(65/69): libX11-1.6.7-3.el7 9.x86 64.rpm
                                                   | 607 kB 00:00
(66/69): xorg-x11-font-utils-7.5-21.el7.x86 64.rpm
                                                      | 104 kB 00:00
                                                        | 521 kB 00:00
(67/69): xorg-x11-fonts-Type1-7.5-9.el7.noarch.rpm
(68/69): pixman-0.34.0-1.el7.x86_64.rpm
                                                   | 248 kB 00:00
(69/69): java-1.8.0-openjdk-headless-1.8.0.292.b10-1.el7_9 | 33 MB 00:01
                                 32 MB/s | 57 MB 00:01
Total
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
 Installing: libjpeg-turbo-1.2.90-8.el7.x86_64
                                                             1/69
 Installing: mesa-libglapi-18.3.4-12.el7_9.x86_64
                                                               2/69
 Installing: libxslt-1.1.28-6.el7.x86 64
                                                         3/69
```

Installing: libxshmfence-1.2-1.el7.x86_64	4/69
Installing: 1:libglvnd-1.0.1-0.8.git5baa1e5.el7.x86_64	5/69
Installing: fontpackages-filesystem-1.44-8.el7.noarch	6/69
Installing: libICE-1.0.9-9.el7.x86_64	7/69
Installing: libwayland-server-1.15.0-1.el7.x86_64	8/69
Installing: libSM-1.2.2-2.el7.x86_64	9/69
Installing: dejavu-fonts-common-2.33-6.el7.noarch	10/69
Installing: dejavu-sans-fonts-2.33-6.el7.noarch	11/69
Installing: fontconfig-2.13.0-4.3.el7.x86_64	12/69
Installing: python-lxml-3.2.1-4.el7.x86_64	13/69
Installing: python-javapackages-3.4.1-11.el7.noarch	14/69
Installing: javapackages-tools-3.4.1-11.el7.noarch	15/69
Installing: jasper-libs-1.900.1-33.el7.x86_64	16/69
Installing: avahi-libs-0.6.31-20.el7.x86_64	17/69
Installing: 1:cups-libs-1.6.3-51.el7.x86_64	18/69
Installing: libfontenc-1.1.3-3.el7.x86_64	19/69
Installing: 1:xorg-x11-font-utils-7.5-21.el7.x86_64	20/69
Installing: atk-2.28.1-2.el7.x86_64	21/69
Installing: libthai-0.1.14-9.el7.x86_64	22/69
Installing : libXau-1.0.8-2.1.el7.x86_64	23/69
Installing: libxcb-1.13-1.el7.x86_64	24/69
Installing: jbigkit-libs-2.0-11.el7.x86_64	25/69
Installing : libtiff-4.0.3-35.el7.x86_64	26/69
Installing: pcsc-lite-libs-1.8.8-8.el7.x86_64	27/69
Installing: libX11-common-1.6.7-3.el7_9.noarch	28/69
Installing : libX11-1.6.7-3.el7_9.x86_64	29/69
Installing: libXext-1.3.3-3.el7.x86_64	30/69
Installing: libXrender-0.9.10-1.el7.x86_64	31/69
Installing: libXfixes-5.0.3-1.el7.x86_64	32/69
Installing : libXi-1.7.9-1.el7.x86_64	33/69
Installing: libXdamage-1.1.4-4.1.el7.x86_64	34/69
Installing: gdk-pixbuf2-2.36.12-3.el7.x86_64	35/69
Installing: libXcomposite-0.4.4-4.1.el7.x86_64	36/69
Installing: gtk-update-icon-cache-3.22.30-6.el7.x86_64	
Installing: libXtst-1.2.3-1.el7.x86_64	38/69
Installing: libXcursor-1.1.15-1.el7.x86_64	39/69
Installing: libXft-2.3.2-2.el7.x86_64	40/69
Installing : libXrandr-1.5.1-2.el7.x86_64	41/69
Installing: libXinerama-1.1.3-2.1.el7.x86_64	42/69
Installing : libXxf86vm-1.1.4-1.el7.x86_64	43/69
Installing : giflib-4.1.6-9.el7.x86_64	44/69
Installing : pixman-0.34.0-1.el7.x86_64	45/69
Installing: hicolor-icon-theme-0.12-7.el7.noarch	46/69
Installing: lksctp-tools-1.0.17-2.el7.x86_64	47/69
Installing : fribidi-1.0.2-1.el7_7.1.x86_64	48/69
Installing: triblul=1.0.2=1.el7_7.1.x00_04 Installing: tzdata-java-2021a-1.el7.noarch	49/69
Installing: copy-jdk-configs-3.3-10.el7_5.noarch	50/69
Installing: 1:java-1.8.0-openjdk-headless-1.8.0.292.b10	
Installing: libwayland-client-1.15.0-1.el7.x86_64	52/69
· · · · · · · · · · · · · · · · · · ·	53/69
Installing: alsa-lib-1.1.8-1.el7.x86_64	· ·
Installing: ttmkfdir-3.0.9-42.el7.x86_64	54/69 55/60
Installing: xorg-x11-fonts-Type1-7.5-9.el7.noarch	55/69 56/69
Installing : graphite2-1.3.10-1.el7_3.x86_64	56/69
Installing: harfbuzz-1.7.5-2.el7.x86_64	57/69

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Installing: libpciaccess-0.14-1.el7.x86_64
                                                          58/69
Installing: libdrm-2.4.97-2.el7.x86_64
                                                         59/69
Installing: mesa-libGL-18.3.4-12.el7 9.x86 64
                                                             60/69
Installing: 1:libglvnd-glx-1.0.1-0.8.git5baa1e5.el7.x86_64
                                                                61/69
Installing: mesa-libgbm-18.3.4-12.el7_9.x86_64
                                                               62/69
Installing: 1:libglvnd-egl-1.0.1-0.8.git5baa1e5.el7.x86_64
                                                                63/69
Installing: mesa-libEGL-18.3.4-12.el7_9.x86_64
                                                              64/69
Installing: cairo-1.15.12-4.el7.x86_64
                                                         65/69
                                                           66/69
Installing: pango-1.42.4-4.el7_7.x86_64
Installing: gtk2-2.24.31-1.el7.x86 64
                                                         67/69
Installing: 1:java-1.8.0-openjdk-1.8.0.292.b10-1.el7_9.x86_64
                                                                  68/69
Installing: 1:java-1.8.0-openjdk-devel-1.8.0.292.b10-1.el7_9.x86_64
                                                                    69/69
Verifying: libXext-1.3.3-3.el7.x86 64
                                                          1/69
Verifying: libpciaccess-0.14-1.el7.x86_64
                                                           2/69
Verifying: libXi-1.7.9-1.el7.x86_64
                                                        3/69
Verifying: python-javapackages-3.4.1-11.el7.noarch
                                                                 4/69
Verifying: fontconfig-2.13.0-4.3.el7.x86 64
                                                            5/69
Verifying: giflib-4.1.6-9.el7.x86 64
                                                        6/69
Verifying: libXinerama-1.1.3-2.1.el7.x86 64
                                                             7/69
Verifying: mesa-libGL-18.3.4-12.el7_9.x86_64
                                                              8/69
Verifying: libXrender-0.9.10-1.el7.x86_64
                                                            9/69
Verifying: 1:xorg-x11-font-utils-7.5-21.el7.x86 64
                                                              10/69
Verifying: libXxf86vm-1.1.4-1.el7.x86 64
                                                           11/69
Verifying: graphite2-1.3.10-1.el7_3.x86_64
                                                            12/69
Verifying: libwayland-server-1.15.0-1.el7.x86_64
                                                              13/69
Verifying: 1:java-1.8.0-openjdk-devel-1.8.0.292.b10-1.el7 9.x86 64 14/69
Verifying: libXcursor-1.1.15-1.el7.x86 64
                                                           15/69
Verifying: libICE-1.0.9-9.el7.x86_64
                                                        16/69
Verifying: 1:java-1.8.0-openjdk-1.8.0.292.b10-1.el7_9.x86_64
                                                                   17/69
Verifying: gtk2-2.24.31-1.el7.x86_64
                                                          18/69
Verifying: ttmkfdir-3.0.9-42.el7.x86 64
                                                          19/69
                                                           20/69
Verifying: 1:cups-libs-1.6.3-51.el7.x86_64
Verifying: alsa-lib-1.1.8-1.el7.x86_64
                                                         21/69
Verifying: libwayland-client-1.15.0-1.el7.x86_64
                                                             22/69
Verifying: gdk-pixbuf2-2.36.12-3.el7.x86_64
                                                             23/69
Verifying: pango-1.42.4-4.el7_7.x86_64
                                                           24/69
Verifying: fontpackages-filesystem-1.44-8.el7.noarch
                                                                 25/69
Verifying: copy-jdk-configs-3.3-10.el7_5.noarch
                                                               26/69
Verifying: 1:java-1.8.0-openjdk-headless-1.8.0.292.b10-1.el7_9.x86_ 27/69
Verifying: tzdata-java-2021a-1.el7.noarch
                                                            28/69
Verifying: dejavu-fonts-common-2.33-6.el7.noarch
                                                                 29/69
Verifying: libXcomposite-0.4.4-4.1.el7.x86_64
                                                             30/69
Verifying: fribidi-1.0.2-1.el7_7.1.x86_64
                                                         31/69
Verifying: libXtst-1.2.3-1.el7.x86_64
                                                        32/69
Verifying: 1:libglvnd-1.0.1-0.8.git5baa1e5.el7.x86 64
                                                               33/69
Verifying: libxcb-1.13-1.el7.x86 64
                                                         34/69
Verifying: libXft-2.3.2-2.el7.x86_64
                                                        35/69
Verifying: libdrm-2.4.97-2.el7.x86_64
                                                          36/69
Verifying: 1:libglvnd-eql-1.0.1-0.8.git5baa1e5.el7.x86 64
                                                                 37/69
Verifying: gtk-update-icon-cache-3.22.30-6.el7.x86 64
                                                                  38/69
                                                           39/69
Verifying: lksctp-tools-1.0.17-2.el7.x86_64
Verifying: harfbuzz-1.7.5-2.el7.x86_64
                                                          40/69
Verifying: hicolor-icon-theme-0.12-7.el7.noarch
                                                               41/69
Verifying: libjpeg-turbo-1.2.90-8.el7.x86 64
                                                            42/69
```

Verifying: pixman-0.34.0-1.el7.x86_64	43/69
Verifying: xorg-x11-fonts-Type1-7.5-9.el7.noarch	44/69
Verifying: libX11-common-1.6.7-3.el7_9.noarch	45/69
Verifying: libX11-1.6.7-3.el7_9.x86_64	46/69
Verifying: mesa-libglapi-18.3.4-12.el7_9.x86_64	47/69
Verifying: 1:libglvnd-glx-1.0.1-0.8.git5baa1e5.el7.x8	6_64 48/69
Verifying: dejavu-sans-fonts-2.33-6.el7.noarch	49/69
Verifying: libXrandr-1.5.1-2.el7.x86_64	50/69
Verifying: pcsc-lite-libs-1.8.8-8.el7.x86_64	51/69
Verifying: javapackages-tools-3.4.1-11.el7.noarch	52/69
Verifying: jbigkit-libs-2.0-11.el7.x86_64	53/69
Verifying : cairo-1.15.12-4.el7.x86_64	54/69
Verifying: mesa-libgbm-18.3.4-12.el7_9.x86_64	55/69
Verifying: libxshmfence-1.2-1.el7.x86_64	56/69
Verifying: libXau-1.0.8-2.1.el7.x86_64	57/69
Verifying: libSM-1.2.2-2.el7.x86_64	58/69
Verifying: libxslt-1.1.28-6.el7.x86_64	59/69
Verifying: jasper-libs-1.900.1-33.el7.x86_64	60/69
Verifying: python-lxml-3.2.1-4.el7.x86_64	61/69
Verifying: mesa-libEGL-18.3.4-12.el7_9.x86_64	62/69
Verifying: libthai-0.1.14-9.el7.x86_64	63/69
Verifying: libXdamage-1.1.4-4.1.el7.x86_64	64/69
Verifying: libXfixes-5.0.3-1.el7.x86_64	65/69
Verifying: atk-2.28.1-2.el7.x86_64	66/69
Verifying: libfontenc-1.1.3-3.el7.x86_64	67/69
Verifying: libtiff-4.0.3-35.el7.x86_64	68/69
Verifying: avahi-libs-0.6.31-20.el7.x86_64	69/69

Installed:

java-1.8.0-openjdk-devel.x86_64 1:1.8.0.292.b10-1.el7_9

Dependency Installed:

alsa-lib.x86_64 0:1.1.8-1.el7 atk.x86_64 0:2.28.1-2.el7 avahi-libs.x86_64 0:0.6.31-20.el7 cairo.x86_64 0:1.15.12-4.el7 copy-jdk-configs.noarch 0:3.3-10.el7_5 cups-libs.x86_64 1:1.6.3-51.el7 dejavu-fonts-common.noarch 0:2.33-6.el7 dejavu-sans-fonts.noarch 0:2.33-6.el7 fontconfig.x86_64 0:2.13.0-4.3.el7 fontpackages-filesystem.noarch 0:1.44-8.el7 fribidi.x86_64 0:1.0.2-1.el7_7.1 gdk-pixbuf2.x86_64 0:2.36.12-3.el7 giflib.x86_64 0:4.1.6-9.el7 graphite2.x86_64 0:1.3.10-1.el7_3 gtk-update-icon-cache.x86_64 0:3.22.30-6.el7 gtk2.x86_64 0:2.24.31-1.el7 harfbuzz.x86 64 0:1.7.5-2.el7 hicolor-icon-theme.noarch 0:0.12-7.el7 jasper-libs.x86_64 0:1.900.1-33.el7 java-1.8.0-openjdk.x86_64 1:1.8.0.292.b10-1.el7_9 java-1.8.0-openjdk-headless.x86_64 1:1.8.0.292.b10-1.el7_9 javapackages-tools.noarch 0:3.4.1-11.el7

jbigkit-libs.x86_64 0:2.0-11.el7

libICE.x86_64 0:1.0.9-9.el7

libSM.x86_64 0:1.2.2-2.el7

libX11.x86_64 0:1.6.7-3.el7_9

libX11-common.noarch 0:1.6.7-3.el7_9

libXau.x86_64 0:1.0.8-2.1.el7

libXcomposite.x86_64 0:0.4.4-4.1.el7

libXcursor.x86_64 0:1.1.15-1.el7

libXdamage.x86_64 0:1.1.4-4.1.el7

libXext.x86 64 0:1.3.3-3.el7

libXfixes.x86_64 0:5.0.3-1.el7

libXft.x86_64 0:2.3.2-2.el7

libXi.x86_64 0:1.7.9-1.el7

libXinerama.x86 64 0:1.1.3-2.1.el7

libXrandr.x86_64 0:1.5.1-2.el7

libXrender.x86_64 0:0.9.10-1.el7

libXtst.x86 64 0:1.2.3-1.el7

libXxf86vm.x86 64 0:1.1.4-1.el7

libdrm.x86_64 0:2.4.97-2.el7

libfontenc.x86_64 0:1.1.3-3.el7

libglvnd.x86_64 1:1.0.1-0.8.git5baa1e5.el7

libglvnd-egl.x86 64 1:1.0.1-0.8.git5baa1e5.el7

libglvnd-glx.x86_64 1:1.0.1-0.8.git5baa1e5.el7

libjpeg-turbo.x86_64 0:1.2.90-8.el7

libpciaccess.x86_64 0:0.14-1.el7

libthai.x86 64 0:0.1.14-9.el7

libtiff.x86 64 0:4.0.3-35.el7

libwayland-client.x86_64 0:1.15.0-1.el7

libwayland-server.x86_64 0:1.15.0-1.el7

libxcb.x86_64 0:1.13-1.el7

libxshmfence.x86_64 0:1.2-1.el7

libxslt.x86_64 0:1.1.28-6.el7

lksctp-tools.x86_64 0:1.0.17-2.el7

mesa-libEGL.x86_64 0:18.3.4-12.el7_9

mesa-libGL.x86_64 0:18.3.4-12.el7_9

mesa-libgbm.x86_64 0:18.3.4-12.el7_9

mesa-libglapi.x86_64 0:18.3.4-12.el7_9

pango.x86_64 0:1.42.4-4.el7_7

pcsc-lite-libs.x86_64 0:1.8.8-8.el7

pixman.x86_64 0:0.34.0-1.el7

python-javapackages.noarch 0:3.4.1-11.el7

python-lxml.x86_64 0:3.2.1-4.el7

ttmkfdir.x86_64 0:3.0.9-42.el7

tzdata-java.noarch 0:2021a-1.el7

xorg-x11-font-utils.x86 64 1:7.5-21.el7

xorg-x11-fonts-Type1.noarch 0:7.5-9.el7

Complete!

[root@ip-172-31-25-248 keycloak-9.0.0]# openssl rand -hex 20 # generate a password to use for admin user

ffb89be973e1c5a608499c949825085d19437422

[root@ip-172-31-25-248 keycloak-9.0.0]# sudo -u keycloak ./bin/add-user-keycloak.sh --user admin --password KEYCLOAKPASS --realm master

```
Added 'admin' to '/opt/keycloak-9.0.0/standalone/configuration/keycloak-add-user.json', restart
server to load user
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo -u keycloak ./bin/jboss-cli.sh 'embed-
server,/subsystem=undertow/server=default-server/http-listener=default:write-
attribute(name=proxy-address-forwarding,value=true)'
{"outcome" => "success"}
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo -u keycloak ./bin/jboss-cli.sh 'embed-server,/socket-
binding-group=standard-sockets/socket-binding=proxy-https:add(port=443)'
{"outcome" => "success"}
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo -u keycloak ./bin/jboss-cli.sh 'embed-
server,/subsystem=undertow/server=default-server/http-listener=default:write-
attribute(name=redirect-socket,value=proxy-https)'
{"outcome" => "success"}
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo systemctl daemon-reload
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo systemctl start keycloak
Failed to start keycloak.service: Unit not found.
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo cat > /etc/systemd/system/keycloak.service
^C
[root@ip-172-31-25-248 keycloak-9.0.0]# cat > /etc/systemd/system/keycloak.service
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo systemctl daemon-reload
                                                                             [root@ip-172-31-25-
248 keycloak-9.0.0]# sudo systemctl start keycloak
                                                      Failed to start keycloak.service: Unit is
masked.
[root@ip-172-31-25-248 keycloak-9.0.0]# systemctl wpa_keycloak.service
Unknown operation 'wpa_keycloak.service'.
[root@ip-172-31-25-248 keycloak-9.0.0]# systemctl status wpa keycloak.service
Unit wpa keycloak.service could not be found.
[root@ip-172-31-25-248 keycloak-9.0.0]# systemctl unmask
Too few arguments.
[root@ip-172-31-25-248 keycloak-9.0.0]# file /etc/systemd/system/keycloak.service
/etc/systemd/system/keycloak.service: empty
[root@ip-172-31-25-248 keycloak-9.0.0]# file /lib/systemd/system/keycloak.service
/lib/systemd/system/keycloak.service: cannot open (No such file or directory)
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo -u keycloak ./bin/jboss-cli.sh --file=config.cli
File /opt/keycloak-9.0.0/config.cli doesn't exist.
[root@ip-172-31-25-248 keycloak-9.0.0]# cat > /etc/systemd/system/keycloak.service
^C
[root@ip-172-31-25-248 keycloak-9.0.0]# ls -la
total 500
drwxr-xr-x. 10 keycloak keycloak 197 Feb 17 2020.
drwxr-xr-x. 3 root root
                             57 May 8 15:12 ..
drwxr-x--x. 3 keycloak keycloak 4096 May 8 15:12 bin
drwxr-xr-x. 7 keycloak keycloak
                                 92 May 8 15:12 docs
drwxr-x--x. 5 keycloak keycloak
                                 50 Feb 17 2020 domain
drwx----. 2 keycloak keycloak
                                  6 Feb 17 2020 .installation
-rw-r--r-. 1 keycloak keycloak 489207 Feb 17 2020 jboss-modules.jar
-rw-r--r-. 1 keycloak keycloak 11358 Feb 17 2020 LICENSE.txt
drwxr-xr-x. 3 keycloak keycloak
                                 39 May 8 15:12 modules
drwx----. 8 keycloak keycloak
                                 91 May 8 15:16 standalone
drwxr-xr-x. 5 keycloak keycloak
                                76 May 8 15:12 themes
-rw-r--r-. 1 keycloak keycloak
                                25 Jan 30 2020 version.txt
drwxr-xr-x. 2 keycloak keycloak
                                 42 May 8 15:12 welcome-content
[root@ip-172-31-25-248 keycloak-9.0.0]# pwd
```

/opt/keycloak-9.0.0

```
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo systemctl daemon-reload
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo systemctl start keycloak
Failed to start keycloak.service: Unit is masked.
[root@ip-172-31-25-248 keycloak-9.0.0]# systemctl unmask keycloak.service
Removed symlink /etc/systemd/system/keycloak.service.
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo systemctl daemon-reload
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo systemctl start keycloak
Failed to start keycloak.service: Unit not found.
[root@ip-172-31-25-248 keycloak-9.0.0]# systemctl status keycloak
Unit keycloak.service could not be found.
[root@ip-172-31-25-248 keycloak-9.0.0]# cat > /etc/systemd/system/keycloak.service
^C
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo systemctl daemon-reload
                                                                              [root@ip-172-31-25-
248 keycloak-9.0.0]# sudo systemctl start keycloak
                                                       Failed to start keycloak.service: Unit is
masked.
[root@ip-172-31-25-248 keycloak-9.0.0]# systemctl unmask keycloak.service
Removed symlink /etc/systemd/system/keycloak.service.
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo systemctl daemon-reload
[root@ip-172-31-25-248 keycloak-9.0.0]# systemctl status keycloak
Unit keycloak.service could not be found.
[root@ip-172-31-25-248 keycloak-9.0.0]# install keycloak.service
install: missing destination file operand after 'keycloak.service'
Try 'install --help' for more information.
[root@ip-172-31-25-248 keycloak-9.0.0]# ./jboss-cli.[sh|bat] --file=keycloak-install.cli
-bash: bat]: command not found
-bash: ./jboss-cli.[sh: No such file or directory
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo -u keycloak ./jboss-cli.[sh|bat] --file=keycloak-install.cli
-bash: bat]: command not found
sudo: ./jboss-cli.[sh: command not found
[root@ip-172-31-25-248 keycloak-9.0.0]# ./jboss-cli.sh --file=keycloak-install.cli
-bash: ./jboss-cli.sh: No such file or directory
[root@ip-172-31-25-248 keycloak-9.0.0]# pwd
/opt/kevcloak-9.0.0
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo -u keyclaok ./jboss-cli.sh --file=keycloak-install.cli
sudo: unknown user: keyclaok
sudo: unable to initialize policy plugin
[root@ip-172-31-25-248 keycloak-9.0.0]# ls -la
total 500
drwxr-xr-x. 10 keycloak keycloak 197 Feb 17 2020.
drwxr-xr-x. 3 root root
                              57 May 8 15:12 ..
drwxr-x--x. 3 keycloak keycloak 4096 May 8 15:12 bin
drwxr-xr-x. 7 keycloak keycloak
                                 92 May 8 15:12 docs
drwxr-x--x. 5 keycloak keycloak
                                 50 Feb 17 2020 domain
drwx----. 2 keycloak keycloak
                                  6 Feb 17 2020 .installation
-rw-r--r-. 1 keycloak keycloak 489207 Feb 17 2020 jboss-modules.jar
-rw-r--r-. 1 keycloak keycloak 11358 Feb 17 2020 LICENSE.txt
drwxr-xr-x. 3 keycloak keycloak
                                 39 May 8 15:12 modules
drwx----. 8 keycloak keycloak
                                 91 May 8 15:16 standalone
drwxr-xr-x. 5 keycloak keycloak
                                 76 May 8 15:12 themes
-rw-r--r-. 1 keycloak keycloak
                                 25 Jan 30 2020 version.txt
drwxr-xr-x. 2 keycloak keycloak
                                 42 May 8 15:12 welcome-content
[root@ip-172-31-25-248 keycloak-9.0.0]# pwd
/opt/keycloak-9.0.0
```

[root@ip-172-31-25-248 keycloak-9.0.0]# sudo systemctl daemon-reload

```
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo systemctl start keycloak
Failed to start keycloak.service: Unit not found.
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo system status keycloak
sudo: system: command not found
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo systemctl status keycloak
Unit keycloak.service could not be found.
[root@ip-172-31-25-248 keycloak-9.0.0]# /etc/systemd/system/keycloak.service
-bash: /etc/systemd/system/keycloak.service: No such file or directory
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo cat > /etc/systemd/system/keycloak.service < < EOF
> [Unit]
> Description=Jboss Application Server
> After=network.target
> [Service]
> Type=idle
> User=kevcloak
> Group=keycloak
> ExecStart=/opt/keycloak-9.0.0/bin/standalone.sh -b 0.0.0.0
> TimeoutStartSec=600
> TimeoutStopSec=600
> [Install]
> WantedBy=multi-user.target
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo systemctl daemon-reload
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo ststemctl start keycloak
sudo: ststemctl: command not found
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo systemctl start keycloak
[root@ip-172-31-25-248 keycloak-9.0.0]# sudo systemctl status keycloak
• keycloak.service - Jboss Application Server
 Loaded: loaded (/etc/systemd/system/keycloak.service; disabled; vendor preset: disabled)
 Active: active (running) since Sat 2021-05-08 16:02:48 UTC; 7s ago
Main PID: 9492 (standalone.sh)
 CGroup: /system.slice/keycloak.service
       -9492 /bin/sh /opt/keycloak-9.0.0/bin/standalone.sh -b 0.0.0.0
       └─9543 java -D[Standalone] -server -Xms64m -Xmx512m -XX:MetaspaceS...
May 08 16:02:54 ip-172-31-25-248.us-west-1.compute.internal standalone.sh[9492]: ...
May 08 16:02:55 ip-172-31-25-248.us-west-1.compute.internal standalone.sh[9492]: ...
May 08 16:02:55 jp-172-31-25-248.us-west-1.compute.internal standalone.sh[9492]: ...
May 08 16:02:55 ip-172-31-25-248.us-west-1.compute.internal standalone.sh[9492]: ...
May 08 16:02:55 ip-172-31-25-248.us-west-1.compute.internal standalone.sh[9492]: ...
May 08 16:02:55 ip-172-31-25-248.us-west-1.compute.internal standalone.sh[9492]: ...
Hint: Some lines were ellipsized, use -I to show in full.
[root@ip-172-31-25-248 keycloak-9.0.0]# history
  1 cd/opt
  2 yum install wget -y
  3 sudo wget https://downloads.jboss.org/keycloak/9.0.0/keycloak-9.0.0.tar.gz
  4 sudo tar xzf keycloak-9.0.0.tar.gz
```

- 5 sudo groupadd -r keycloak
- 6 sudo useradd -m -d /var/lib/keycloak -s /sbin/nologin -r -g keycloak keycloak
- 7 sudo chown keycloak: -R keycloak-9.0.0
- 8 cd keycloak-9.0.0
- 9 sudo -u keycloak chmod 700 standalone
- 10 sudo yum install java-1.8.0-openjdk-devel
- 11 openssl rand -hex 20 # generate a password to use for admin user
- 12 sudo -u keycloak ./bin/add-user-keycloak.sh --user admin --password KEYCLOAKPASS --realm master
- 13 sudo -u keycloak ./bin/jboss-cli.sh 'embed-server,/subsystem=undertow/server=default-server/http-listener=default:write-attribute(name=proxy-address-forwarding,value=true)'
- 14 sudo -u keycloak ./bin/jboss-cli.sh 'embed-server,/socket-binding-group=standard-sockets/socket-binding=proxy-https:add(port=443)'
- 15 sudo -u keycloak ./bin/jboss-cli.sh 'embed-server,/subsystem=undertow/server=default-server/http-listener=default:write-attribute(name=redirect-socket,value=proxy-https)'
 - 16 sudo systemctl daemon-reload
 - 17 sudo systemctl start keycloak
 - 18 sudo cat > /etc/systemd/system/keycloak.service
 - 19 cat > /etc/systemd/system/keycloak.service
 - 20 sudo systemctl daemon-reload
 - 21 sudo systemctl start keycloak
 - 22 systemctl wpa keycloak.service
 - 23 systemctl status wpa_keycloak.service
 - 24 systemctl unmask
 - 25 file /etc/systemd/system/keycloak.service
 - 26 file /lib/systemd/system/keycloak.service
 - 27 sudo -u keycloak ./bin/jboss-cli.sh --file=config.cli
 - 28 cat > /etc/systemd/system/keycloak.service
 - 29 ls -la
 - 30 pwd
 - 31 sudo systemctl daemon-reload
 - 32 sudo systemctl start keycloak
 - 33 systemctl unmask keycloak.service
 - 34 sudo systemctl daemon-reload
 - 35 sudo systemctl start keycloak
 - 36 systemctl status keycloak
 - 37 cat > /etc/systemd/system/keycloak.service
 - 38 sudo systemctl daemon-reload
 - 39 sudo systemctl start keycloak
 - 40 systemctl unmask keycloak.service
 - 41 sudo systemctl daemon-reload
 - 42 systemctl status keycloak
 - 43 install keycloak.service
 - 44 ./jboss-cli.[sh|bat] --file=keycloak-install.cli
 - 45 sudo -u keycloak ./jboss-cli.[sh|bat] --file=keycloak-install.cli
 - 46 ./jboss-cli.sh --file=keycloak-install.cli
 - 4/ pwd
 - 48 sudo -u keyclaok ./jboss-cli.sh --file=keycloak-install.cli
 - 49 Is -la
 - 50 pwd
 - 51 sudo systemctl daemon-reload
 - 52 sudo systemctl start keycloak
 - 53 sudo system status keycloak
 - 54 sudo systemctl status keycloak

55 /etc/systemd/system/keycloak.service56 sudo cat > /etc/systemd/system/keycloak.service <<EOF

[Unit]

Description=Jboss Application Server After=network.target

[Service]
Type=idle
User=keycloak
Group=keycloak
ExecStart=/opt/keycloak-9.0.0/bin/standalone.sh -b 0.0.0.0
TimeoutStartSec=600

TimeoutStartSec=600 TimeoutStopSec=600

[Install]

WantedBy=multi-user.target EOF

- 57 sudo systemctl daemon-reload
- 58 sudo ststemctl start keycloak
- 59 sudo systemctl start keycloak
- 60 sudo systemctl status keycloak
- 61 history

[root@ip-172-31-25-248 keycloak-9.0.0]#