



BUILD SERVER PREPARATION

CIS 5690

Linux Build Server Preparation Prerequisites

Before you begin, assemble the following resources

- An OEL7 server built with enough space on /var mount point
- A local copy of the UCMAUTOBUILD.zip file and OEL7.2 DVD ISO image.

Before you begin, ensure the following criteria are met :

- A directory /var/www/html/install exist on the server
- The server on which the build location is built on, must have Apache web server with the /var/www/html/install directory available via the HTTP protocol using a URL of <http://<Build-server>/install>
- 10Gb available disk space on /var/www/html

Install apache

```
# yum -y install httpd
# systemctl start httpd
# systemctl enable httpd
```

Prepare Linux Build Server

1. Copy the UCMAUTOBUILD.zip to /tmp
2. Mount OEL7.2 OS dvd image
3. Log onto the Build Server as root
4. Create the build locations
 - o `mkdir -p /var/www/html/install/`
 - o `mkdir -p /var/www/html/generated/iso`
 - o `mkdir -p /var/www/html/rsa`
 - o `mkdir -p /var/www/html/iso/oel7.2/x86_64`
 - o `mkdir -p /var/www/html/sw/7.2.00`
 - o `mkdir -p /var/www/html/yum`

- o `mkdir -p /var/www/html/yum/OEL7_2_Base/x86_64`
- o `mkdir -p /var/www/html/yum/OEL7_2_Updates/x86_64/`

Directory	Comments
<code>/var/www/html/install</code>	This directory contains Kickstart file, Build scripts & dvd softlink
<code>/var/www/html/sw/7.2.00</code>	Contains rpms required by build scripts. This is the package url
<code>/var/www/html/generated/iso</code>	bootable iso images genrated by gencd.sh script
<code>/var/www/html/iso/oel7.2/x86_64</code>	Copy the OEL7.2 dvd contents here
<code>/var/www/html/rsa</code>	Holds the PHP upload script. When the BKP script is executed it will copy the pub keys here.
<code>/var/www/html/index.html</code>	Default Index file
<code>/var/www/html/yum</code>	yum repo directory
<code>/var/www/html/yum/OEL7_2_Base/x86_64</code>	OEL7.2 Base yum repo. Create DVD soft link
<code>/var/www/html/yum/OEL7_2_Updates/x86_64/</code>	Another repo. For any updates

Copy the OEL7.2 DVD

Copy the OEL7.2 OS dvd contents to `/var/www/html/iso/oel7.2/x86_64`.

For example :

- o `cp -ar /mnt/dvd /var/www/html/iso/oel7.2/x86_64`

Create soft links as below

```
ln -s /var/www/html/iso/oel7.2/x86_64 /var/www/html/install/dvd/oel7.2
ln -s /var/www/html/iso/oel7.2/x86_64 /var/www/html/yum/OEL7_2_Base/x86_64
```

unzip the UCMAUTOBUILD.ZIP

```
$ unzip UCMAUTOBUILD.zip
Archive: UCMAUTOBUILD.zip
  inflating: UCMAUTOBUILD/index.html
  extracting: UCMAUTOBUILD/Install_scripts.zip
  extracting: UCMAUTOBUILD/rsa.zip
  extracting: UCMAUTOBUILD/sw.zip
```

extract Install_scripts.zip

```
# cp /tmp/UCMAUTOBUILD/Install_scripts.zip /var/www/html/install
# cd /var/www/html/install

# unzip Install_scripts.zip
Archive: Install_scripts.zip
  inflating: ks/ks.cfg
  inflating: scripts/ASP-OEL-BKP.sh
  inflating: scripts/ASP-OEL-CFG.sh
  inflating: scripts/ASP-OEL-GML.sh
  inflating: scripts/ASP-OEL-INI.sh
  inflating: scripts/ASP-OEL-IQS.sh
  inflating: scripts/ASP-OEL-LDP.sh
  inflating: scripts/ASP-OEL-LOG.sh
  inflating: scripts/ASP-OEL-OQS.sh
  inflating: scripts/ASP-OEL-QUA.sh
  inflating: scripts/ASP-OEL-RPO.sh
  inflating: scripts/ASP-OEL-VMT.sh
  inflating: scripts/gencd.sh
  inflating: scripts/incrbkp.py

once all the scripts are copied. Remove the zip file
# rm /var/www/html/install/Install_scripts.zip
```

Extract rsa.zip

```
# cp /tmp/UCMAUTOBUILD/rsa.zip /var/www/html
# cd /var/www/html

# unzip rsa.zip
Archive: rsa.zip
  inflating: rsa/upload.php
  creating: rsa/uploads/

# change permissions to rsa/uploads dir
# chown apache:apache /var/www/html/rsa/uploads
# chmod 775 /var/www/html/rsa/uploads

remove the zip file after copying
# rm /var/www/html/rsa.zip
```

Extract sw.zip

```
# cp /tmp/UCMAUTOBUILD/sw.zip /var/www/html
# cd /var/www/html

# unzip sw.zip
Archive: sw.zip
  creating: sw/7.2.00/configs/
  inflating: sw/7.2.00/configs/audit.rules
  inflating: sw/7.2.00/configs/public-yum-ol7.repo
  inflating: sw/7.2.00/groff-1.22.2-8.el7.x86_64.rpm
  inflating: sw/7.2.00/README.html
  inflating: sw/7.2.00/VMwareTools-10.0.0-2977863.tar.gz
#

Remove the zip file after copying
# rm /var/www/html/sw.zip
```

Copy Index.html file

```
# cp /tmp/UCMAUTOBUILD/index.html /var/www/html/
```

DOCUMENT SIGNOFF

Nature of Signoff	Person	Signature	Date
Author	Lal Pasha Shaik		
Reviewer	Dr. Kesh		