

# Ksh

Korn shell - ksh

## if-then

```
if [[ -e /usr/opt/rpm/bin/rpm ]]
then
    RPM_CMD="/usr/opt/rpm/bin/rpm"
else
    RPM_CMD="/usr/bin/rpm"
fi

# Check if we are running this as the root user.
if [[ "$( /usr/bin/id -u )" != "0" ]]
then
    echo "This script must be run as root."
    exit 1
fi
```

## Check AIX Version

```
# First check the AIX version.
oslvl=`/usr/bin/oslevel`
aix_ver=$( /usr/bin/lslpp -qLc bos.rte | /usr/bin/awk -F': ' '{print $3}' )
af1=$(echo $aix_ver | /usr/bin/cut -d"." -f1)
af2=$(echo $aix_ver | /usr/bin/cut -d"." -f2)
af3=$(echo $aix_ver | /usr/bin/cut -d"." -f3)
if [[ "$oslvl" = "7.1.0.0" ]]
then
    if [[ ( ! $af1 -ge 7 ) || ( ! $af2 -ge 1 ) || ( ! $af3 -ge 3 ) ]]
    then
        echo "dnf and dependencies can be installed on AIX 7.1.3 and higher versions."
        exit 1
    fi
else
```

```

if [[ ( ! $af1 -ge 7 ) || ( ! $af2 -ge 1 ) ]]
then
    echo "dnf and dependencies can be installed on AIX 7.1.3 and higher versions."
    exit 1
fi
fi

```

## Help

```

prog=${0##*/}
usage() {
    print >&2 "Usage: $prog <-d> <-y> <-n> -?"

    -d  Install and setup dnf if yum is not installed.
        yum command will not be available only dnf command can be used.
    -y  Installs dnf, and updates yum3 to dnf yum4 if yum3 is installed.
        If no yum3 is installed then dnf and yum4 will be installed.
        yum command will also be available along with dnf.
    -n  Install dnf where both yum and dnf can coexist if yum is installed already.
        This is not a recommended option."
    exit 1
}

if [[ $# -ne 1 ]]
then
    usage
    exit 1
fi

```

## Check disk space for /tmp

```

oslvl=`/usr/bin/oslevel`
aix_730_plus=0
os_f1=$(echo $oslvl | /usr/bin/cut -d"." -f1)
os_f2=$(echo $oslvl | /usr/bin/cut -d"." -f2)
os_f3=$(echo $oslvl | /usr/bin/cut -d"." -f3)
os_f4=$(echo $oslvl | /usr/bin/cut -d"." -f4)
if [[ ( $os_f1 -ge 7 ) && ( $os_f2 -ge 3 ) && ( $os_f3 -ge 0 ) && ( $os_f4 -ge 0 ) ]]
then
    aix_730_plus=1

```

```

fi

aix_715_prior=0
oslvl_tl=`/usr/bin/lspp -qLc bos.rte | /usr/bin/cut -d: -f3`
os_f1=$(echo $oslvl_tl | /usr/bin/cut -d"." -f1)
os_f2=$(echo $oslvl_tl | /usr/bin/cut -d"." -f2)
os_f3=$(echo $oslvl_tl | /usr/bin/cut -d"." -f3)
if [[ ( $os_f1 -eq 7 ) && ( $os_f2 -eq 1 ) && ( $os_f3 -lt 5 ) ]]
then
    aix_715_prior=1
fi

# Check if /tmp has enough space to download rpm.rte & dnf_bundle
# and size for extracting rpm packages.

if [[ $aix_730_plus -eq 1 ]]
then
    typeset -i total_req=`echo "(512)" | bc`
    tmp_free=`/usr/bin/df -m /tmp | /usr/bin/sed -e /Filesystem/d | /usr/bin/awk '{print $3}'`
    if [[ $tmp_free -le $total_req ]]
    then
        echo "Please make sure /tmp has around 512MB of free space to download and"
        echo "extract files from dnf_bundle."
        exit 1
    fi
else
    typeset -i total_req=`echo "(512)" | bc`
    tmp_free=`/usr/bin/df -m /tmp | /usr/bin/sed -e /Filesystem/d | /usr/bin/awk '{print $3}'`
    if [[ $tmp_free -le $total_req ]]
    then
        echo "Please make sure /tmp has around 512MB of free space to download and"
        echo "extract files from dnf_bundle."
        exit 1
    fi
fi

```

## Download with ftp and perl

```

if [[ $aix_715_prior -eq 1 ]]
then

```

```
echo "Attempting download of dnf_bundle_aix_71_72.tar ..."
```

```
username="anonymous"
```

```
userpassword="anonymous"
```

```
/usr/bin/expect <<DNFEOF
```

```
log_user 0
```

```
set timeout -1
```

```
spawn ftp -s public.dhe.ibm.com
```

```
expect "Name (public.dhe.ibm.com:): "
```

```
send "$username\r"
```

```
expect "Password:"
```

```
send "$userpassword\r"
```

```
expect "ftp> "
```

```
send "lcd $tmppath\r"
```

```
expect "ftp> "
```

```
send "bin\r"
```

```
expect "ftp> "
```

```
send "passive\r"
```

```
expect "ftp> "
```

```
send "cd aix/freeSoftware/aixtoolbox/ezinstall/ppc\r"
```

```
expect "ftp> "
```

```
send "get dnf_bundle_aix_71_72.tar\r"
```

```
expect "ftp> "
```

```
send "bye\r"
```

```
expect eof
```

```
DNFEOF
```

```
if [[ ! -e dnf_bundle_aix_71_72.tar ]]
```

```
then
```

```
echo "Failed to download dnf_bundle_aix_71_72.tar."
```

```
cd - >/dev/null 2>&1
```

```
rm -rf $tmppath
```

```
exit 1
```

```
fi
```

```
elif [[ $aix_730_plus -eq 1 ]]
```

```
then
```

```
echo "Attempting download of dnf_bundle_aix_73.tar ..."
```

```
export PERL_LWP_SSL_VERIFY_HOSTNAME=0
```

```
LDR_CNTRL=MAXDATA=0x80000000@DSA /usr/opt/perl5/bin/lwp-download
```

```
https://public.dhe.ibm.com/aix/freeSoftware/aixtoolbox/ezinstall/ppc/dnf\_bundle\_aix\_73.tar
```

```
if [[ $? -ne 0 ]]
```

```

then
    echo "Failed to download dnf_bundle_aix_73.tar"
    cd - >/dev/null 2>&1
    rm -rf $tmppath
    exit 1
fi

# Do this once rpm.rte for 730 is available on AIX Toolbox.
#/usr/opt/perl5/bin/lwp-download http://public.dhe.ibm.com/aix/freeSoftware/aixtoolbox/INSTALLP/ppc/rpm.rte
# if [[ $? -ne 0 ]]
# then
#     echo "Failed to download rpm.rte"
#     exit 1
# fi
else
    echo "Attempting download of dnf_bundle_aix_71_72.tar ..."
    LDR_CNTRL=MAXDATA=0x80000000@DSA /usr/opt/perl5/bin/lwp-download
https://public.dhe.ibm.com/aix/freeSoftware/aixtoolbox/ezinstall/ppc/dnf_bundle_aix_71_72.tar
    if [[ $? -ne 0 ]]
    then
        echo "Failed to download dnf_bundle_aix_71_72.tar"
        cd - >/dev/null 2>&1
        rm -rf $tmppath
        exit 1
    fi
    #/usr/opt/perl5/bin/lwp-download http://public.dhe.ibm.com/aix/freeSoftware/aixtoolbox/INSTALLP/ppc/rpm.rte
    # if [[ $? -ne 0 ]]
    # then
    #     echo "Failed to download rpm.rte"
    #     exit 1
    # elif [[ -e rpm.rte.txt ]]
    # then
    #     /usr/bin/mv rpm.rte.txt rpm.rte
    # fi
fi
#end of perl download

```

## Check if running as root

```
# Check if we are running this as the root user.  
if [[ "$( /usr/bin/id -u )" != "0" ]]  
then  
    echo "This script must be run as root."  
    exit 1  
fi
```

---

Revision #4

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