

HOWTO: Update a NIM server

Contributed by Michael Felt

Updating NIM

Note: this is an article that I will continue to update. RL teaches me that I prepare "parts" and do not publish, as I wait/look for time to finish the missing "parts" Roughly speaking there are two NIM update paths - especially for lpp_sources and spots:

- New resources

- Update existing resources

This article assumes you have looked at my HOWTO: Install a NIM Server article already.

Add a new LPP Source and SPOT from a DVD

There is a script on the next page you can copy/paste to a notepad and then save as a script. It will have a background looking like this.

```
#!/usr/bin/ksh
```

```
echo "An example script in a highlighted area!"The key parts of the script is to look at current oslevel, and guess at DVD oslevel by looking for bos.rte.install and building a "DVDLEVEL" string that can be used for creating the logical volums and filesystems for an lpp_source and a spot.
```

Based on this data I will work on creating a set of commands to update a DVD lpp_source to a level that can be updated via SUMA and/or an ftp download from Fix Central. This will be "coming soon".

Update an existing lpp_source using SUMA and bff_create

-- scripted ideally. "Coming soon".

Scripts

Click next (the right one!) for the script to create an new lpp_source and spot from an installable DVD.

```
#!/usr/bin/ksh

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# Create a nim lpp_source from an install DVD CD

setlevel()

{

OSLEVEL=`oslevel -s | cut -c 1-2,6-7,9-10`

DVDLEVEL=`installp -d /dev/cd0 -L | grep bos.rte.install | awk -F: ' { print $3 } ' | \

    awk -F. ' { print $1 $2 "0" $3 "0" $4 }' | sort | tail -1`

while [ "x$LEVEL" == "x" ]; do

    if [ $DVDLEVEL -ne $OSLEVEL ]; then

        echo DVDLEVEL is $DVDLEVEL, OSLEVEL is $OSLEVEL

        echo "should new lpp_source be set according to DVD or OS? : (O/D)"\c

        read choice

        case "$choice" in

            O|o)

                LEVEL=$OSLEVEL ;;

            D|d)

                LEVEL=$DVDLEVEL ;;

            esac

        fi

    done

}

getvg()

{

    lsvg -o

    VG=vgNim

    echo --- using volume group vgNim ---

    echo --- need to add selection script ---

}

clear
```

```
echo "AIXTOOLS and ROOTVG.NET script to assist with NIM installation based on host's oslevel"

echo ===== -- getting current software levels

setlevel

echo ===== -- choose existing volume group

getvg

echo ===== -- create logical volumes

mklv -t jfs2 -y lv${LEVEL} ${VG} 4G

[[ $? -ne 0 ]] && echo $0: cannot make logical volume, exiting && exit -1

mklv -t jfs2 -y lv${LEVEL}s ${VG} 2G

[[ $? -ne 0 ]] && echo $0: cannot make logical volume, exiting && exit -1

echo ===== -- create filesystems...

crfs -v jfs2 -d lv${LEVEL} -m /export/${LEVEL} -A yes -u nim

[[ $? -ne 0 ]] && echo $0: cannot filesystem /export/${LEVEL}, exiting && exit -1

mount /export/${LEVEL}

crfs -v jfs2 -d lv${LEVEL}s -m /export/${LEVEL}/spot_${LEVEL} -A yes -u nim

[[ $? -ne 0 ]] && echo $0: cannot filesystem /export/${LEVEL}/spot_${LEVEL}, exiting && exit -1

mount /export/${LEVEL}/spot_${LEVEL}

lsvg -l ${VG}

echo ===== -- create NIM lpp_source and spot from DVD

nim -o define -t lpp_source -a server=master -a source=/dev/cd0 -a location=/export/${LEVEL}/lpp lpp_${LEVEL}

[[ $? -ne 0 ]] && echo $0: nim lpp_source create failed, exiting && nim -o remove lpp_${LEVEL} && exit -1

bffcreate -d /dev/cd0 -q -t /export/${LEVEL}/lpp -v -S -X openssl.base openssl.man.en_US openssl.msg.en_US

nim -o define -t spot -a server=master -a source=lpp_${LEVEL} -a location=/export/${LEVEL} spot_${LEVEL}

[[ $? -ne 0 ]] && echo $0: nim spot create failed && nim -o remove spot_${LEVEL} && exit -1
```