SOFTWARE PRE-INSTALL INSTRUCTIONS

** The RFC "acr" is used as an example in the PRE_INSTALL INSTRUCTIONS.**

SOFTWARE PRE-INSTALL INSTRUCTIONS Formatting the NS1 for the Partition "chpsSHARE": Create the Linux User "fews": Create a Tarball for the SSH Keys: Add the CHPS Systems to the NS1 Database: Change the "Volume Access" of chpsSHARE Value to "READ/WRITE": Configure IP Addresses and Firewall for All Three CHPS Systems CHPS1 CHPS2 CHPS3 **Configure Local/Network Mounts** fstab (chps1) fstab (chps2) fstab (chps3) Configure DNS (Domain Name Server) and NIS (Network Information Service) resolv.conf (chps1 chps2 & chps3) nsswitch.conf (chps1 chps2 & chps3) vp.conf (chps1 chps2 & chps3) ntp.conf (chps1 chps2 & chps3)

NOTES:

- 1. Please be sure to replace "acr" with the appropriate three letter ID for your site. In addition, be sure that the IP addresses used in the following example are the correct addresses for your office.
- A script output file could be used in the future to track the commands that are typed in and the systems response. This could be used in the future, but is not included in this version.

a. For example: script -a -f /tmp/install.out

Do the following on any Ix workstation as user "root"

Formatting the NS1 for the Partition "chpsSHARE":

mkdir /usr/java cp /home/hrl/chps_install/jre-6u17-linux-i586.rpm /usr/java cd /usr/java rpm -iv jre-6u17-linux-i586.rpm

cd /usr/lib/mozilla/plugins Is -al ***option: copy the link libjavaplugin_oji.so to old_link.txt rm libjavaplugin_oji.so *answer "yes" if asked to remove link In -s /usr/java/jre1.6.0_17/plugin/i386/ns7/libjavaplugin_oji.so

***Launch the Firefox Browser

***type "http://ns1/" into the location window

- ***in the pop-up window go to "Open with" and select "other " from the drop down menu
- ***navigate to "/usr/java/jre1.6.0_17/bin" and highlight "javaws" and click on the "Open" button

***now click on the "OK" button

- ***a box will come up with "digital signature cannot be verified" click on the "Run" button
- ***a window will then come up with the ns1 IP address and ask for a password - enter the AWIPS root password

When the display comes up, on the far left side click on the button next to "File Volume Operations" to open a sub menu Now click on "Create File Volumes/Segments" in the sub menu

Click on "LUN isp1d026"

Enter "chpsSHARE" in the Name box

***the maximum allocation size should already be in the Partition Size box (262144)

Click on the "Apply" button

***a create volume progress bar will appear

Click on LUN isp3d067

***"chpsSHARE" should appear in the Name box ***"262144" should appear in the Partition Size box

Click the "segment" radio button in the "Type" box Click on the "Apply" button ***a create segment progress bar will appear

On the far left side click on the page symbol next to "Attach Segment" Click on "chpsSHARE" under the "Existing Volumes" ***the ~chpsSHARE segment is probably the entry under "Available Segments", if not, click on the "~chpsSHARE" segment Click on the "Apply" button

On the far left side click on the button next to "Unix Configuration" to open a sub menu Now click on the button next to "Configure NFS" in the sub menu to open a sub sub menu Now click on "Configure Exports" in the sub sub menu

On the very far right of the display, click on the top button to "Add export to list"

*** the button will have a symbol of what looks like a sheet of paper with the right corner torn off

A window labelled "Add NFS Export" will open Click on /chpsSHARE in the volume drop down menu On the far left side in the area labelled "Map Root User" select "Root User" Click on the "OK" button Click on the "Apply" button at the bottom

Click on the "Logout" button - second button from the left in the upper left-hand corner of Web Admin screen ... look for an arrow -> Click on "Yes" Click on "Cancel" Click on "Yes"

Create the Linux User "fews":

On dx1 as user "root" cd /home/ead the "readme.txt" file and make the necessary changes ./setupAwipsUser.sh fews RSH FEWS-Deltares User *Answer "y" to the two questions: 1. WARNING : This script is WFO centric!

user group will be fxalpha!

You will be able to use ksh (you will be prompted later)! Do you want to continue? (y/n)

2. WARNING: I've noticed you're an RFC

Do you want users to use the ksh? (y/n)

passwd fews **Enter a password

chsh fews

-> it will then ask for the shell, enter: /bin/bash

cd /etc

vi hosts **Add the following four lines to the bottom of the file:

 #CHPS Systems

 165.92.144.91
 chps1-acr
 chps1
 # CHPS Server 1

 165.92.144.92
 chps2-acr
 chps2
 # CHPS Server 2

 165.92.144.93
 chps3-acr
 chps3
 # CHPS Server 3

/var/yp/ypmake

Create a Tarball for the SSH Keys:

cd /awips tar -cvf keys.tar .ssh

Add the CHPS Systems to the NS1 Database:

**At the dx1 root prompt:

ssh nas1

**This will get you to the nas1 prompt (nas1-acr), now issue the following command:

menu

nas1-nhor	StorageTek 5320C NAS Me	nu
Operations 1. Activity Monitor 2. Show Log 3. Lock Console 4. Licenses 0. Shutdown Version 4.22 M1	Configuration A. Host Name & Network B. Timezone, Time, Date C. Drive Letters D. Disks & Volumes E. Users F. Hosts H. DNS & SYSLOGD I. NIS & NIS+ J. NS Lookup Order	<pre>Access Control K. Admin Access L. Volume Access M. Trusted Hosts Extensions U. Language Selection V. EMAIL Configuration W. ADS Setup X. CIFS/SMB Configuration Y. RDATE time updateSPACE more extensions</pre>
Press the number of menu item you want 	r letter that corresponds t to use	o the
ESC to exit menu		Sun Microsystems, Inc.

Press the "F" key on your keyboard. This to select "Hosts". You will get a screen that looks similiar to the following:

nas1-nhor	StorageT	ek 5320C NAS	Update Local	l Host Databa	ase	
10.10.10.1 chps3-nhor chps54-nho dx3-nhor	10.10.10.2 chps4-nhor r chps55-nhor dx4-nhor	ax-nhor chps5-nhor chps56-nhor px1-nhor	ax-tape chps51-nhor chps6-nhor px2-nhor	chps1-nhor chps52-nhor dx1-nhor rp1-nhor	chps2-nhor chps53-nhor dx2-nhor rp2-nhor	
Hos + Enter (or a no 	t Name/IP an existing h ew name to ad	ost name or a d a host, the	address (in c en press ENTE	dotted decima ER	al),	-+
+ ESC for I	Menu					•+

Enter the system name, such as "chps1-acr", and press the "Enter" key

It will then ask for the IP Address, enter the full address, such as 165.92.144.91 and press the "Enter" key.

It will then ask you to press the "7" key to save it.

**Enter all three of the chps boxes names and addresses in this fashion.

**When finished, press <ESC>. This will take you back to the Main Menu.

Press the <M> key

**This will select "Trusted Hosts". You will get a screen that looks similiar to the following:

nas1-nhor StorageTek 5320C NAS Configure Trusted Hosts and the Storage States and State					
10.10.10.1 chps3-nhor chps54-nhor dx3-nhor rp1-nhor	10.10.10.2 chps4-nhor chps55-nhor dx4-nhor rp2-nhor	ax-nhor chps5-nhor chps56-nhor lx4-nhor	ax-tape chps51-nhor chps6-nhor lx6-nhor	chps1-nhor chps52-nhor dx1-nhor px1-nhor	chps2-nhor chps53-nhor dx2-nhor px2-nhor
e following:					
Trusted H	lost Name				
Enter ar trusted 	n existing t host	rusted host r	name or a hos	st name to ac	dda
ESC for Me	enu				

Enter the system name, such as "chps1-acr", and press the "Enter" key

It will then ask you to press the "7" key to save it.

**Enter all three of the chps boxes names in this fashion.

Press <ESC> **This will take you back to the Main Menu.

Press <ESC> **This will take you back to the Main Menu.

Type "exit" **To return to the dx1 prompt

Change the "Volume Access" of chpsSHARE Value to "READ/WRITE":

From dx1:

[root@dx1-nhor ~]# ssh ns1

This will get you to the ns1 prompt (ns1-acr)

ns1-nhor > menu

You will get a screen that looks similiar to the following:

ns1-nhor	StorageTek 5320C NAS Menu			
Operations 1. Activity Monitor 2. Show Log 3. Lock Console 4. Licenses 0. Shutdown	Configuration A. Host Name & Network B. Timezone, Time, Date C. Drive Letters D. Disks & Volumes E. Users F. Hosts H. DNS & SYSLOGD I. NIS & NIS+ J. NS Lookup Order	Access Control K. Admin Access L. Volume Access M. Trusted Hosts Extensions U. Language Selection V. EMAIL Configuration W. ADS Setup X. CIFS/SMB Configuration Y. RDATE time update		
Version 4.22 M0 + Press the number 1 menu item you wan	or letter that corresponds to t to use	o the		
ESC to exit menu		Sun Microsystems, Inc.		

Press "L". This to select "Volume Access."

ns:	L-nhor Sto	rageTek 5320C NAS	Control Volume Access	
A. B. D. F. G. J. K. M.	Volume /chpsARCHIVE /chpsARCHIVE.chkpnt /chpsBACKUP /chpsBACKUP.chkpnt /chpsSHARE /chpsSHARE.chkpnt /cvol /dvol /dvol.chkpnt /home /home.chkpnt /proc /share	General Access No Access Read/Write No Access Read/Write	Volume N. /share.chkpnt	General Access No Access
	ENTER to move	through fields	Save changes after last	t field
	Enter the letter	next to a volume	to change its general ad 0. Cancel	ccess
	ESC for Menu			+

Select "/chpsSHARE":

Press "1" to select "**Read/write**":



Press the "7" key on your keyboard to Save changes. You will be returned to the main menu.

Press "L" to select "**Volume Access**". Check that /chpsSHARE is Read/Write

ns:	L-nhor Stor	ageTek 5320C NAS	Control Volume Access	
A. B. D. F. G. J. K. L.	Volume /chpsARCHIVE /chpsARCHIVE.chkpnt /chpsBACKUP.chkpnt /chpsSHARE /chpsSHARE.chkpnt /cvol /dvol /dvol.chkpnt /home /home.chkpnt /proc /share	General Access No Access No Access No Access Read/Write No Access No Access No Access No Access No Access Read/Write No Access Read/Write	Volume N. /share.chkpnt	General Access No Access
	ENTER to move t 	hrough fields ext to a volume	Save changes after las to change its general ac 0. Cancel	t field ccess
	ESC for Menu			

Press <ESC> (You should be back at the Main Menu.)

Press"F" to select "**Hosts**" Check that chps1-acr, chps2-acr, and chps3-acr are listed. If not, enter those in a similiar fashion described above for nas1.

Press <ESC> (You should be back at the Main Menu.)

Press "M" to select "**Trusted Hosts**" Check that chps1-acr, chps2-acr, and chps3-acr are listed. If not enter those in a similiar fashion described above for nas1.

Press <ESC> (You should be back at the Main Menu.)

Type "exit" **To return to the dx1 prompt

Configure IP Addresses and Firewall for All Three CHPS Systems

** As user "root." **

In the "/etc" directory edit the following files so that they contain the following:

CHPS1

hosts

😣 🗏 🗊 root@chp	os1-acr:~			
<pre># Do not remove # that require r</pre>	the followi network func	ng line, tionality	or various will fail	s programs
127.0.0.1	loc	alhost.lo	caldomain	localhost
165.92.144.91	chps1-acr	chps	1	
165.92.144.29	nas1-acr	nas1	L	
165.92.144.79	ns1-acr	ns1		

hosts.allow **Add the following line to the bottom of the file: ALL: 127.0.0.1 165.92.28. 165.92.30. 165.92.180. 165.92.144.



hosts.deny **Add the following line to the bottom of the file: ALL: ALL



CHPS2

hosts

😣 🖻 🗉 root@chps2-a	cr:~	
# Do not remove the # that require netwo	following line, ork functionality	or various programs will fail.
127.0.0.1	localhost.lo	caldomain localhost
165.92.144.92 chp	s2-acr chps	2
165.92.144.29 nas:	1-acr nas1	
165.92.144.79 ns-	acr ns1	

hosts.allow ALL: 127.0.0.1 165.92.28. 165.92.30. 165.92.180. 165.92.144. **Be sure to replace the 144 with your site IP addresss

on 🗐 🔍	ot@chps2-a	сг:~			
# hosts.al # #		s file describe owed to use the the '/usr/sbin/			
ALL: 127.0	0.0.1 165.	92.28. 165.92.3	0. 165.92.18	30. 165.92.144	

hosts.deny **Add the following line to the bottom of the file: ALL: ALL



CHPS3

hosts

😣 🗐 🗊 root@chj	os3-acr:~			
Do not remove # that require if	the followin network funct	ng line, or tionality w	various ill fail	programs
127.0.0.1	loca	alhost.loca	ldomain	localhost
165.92.144.93	chps3-acr	chps3		
165.92.144.29	nas1-acr	nas1		
165.92.144.79	ns1-acr	ns1		

hosts.allow ALL: 127.0.0.1 165.92.28. 165.92.30. 165.92.180. 165.92.144. ***Be sure to replace the 144 with your site IP address

😣 🗐 🗊 root@ch	nps3-acr:~
# hosts.allow # #	
# ALL: 127.0.0.1	165.92.28. 165.92.30. 165.92.180. 165.92.144.

hosts.deny **Add the following line to the bottom of the file: ALL: ALL



Configure Local/Network Mounts

In the "/etc" directory edit the following files so that they contain the following:

fstab (chps1)

**Be sure to comment out the logical volume /home directory

🛛 🙁 🗐 🔹 root@chps1-acr:/et	5			
/dev/VolGroup00/LogVol00) /	ext3	defaults	
/dev/VolGroup00/LogVol07	/awips/chps_local	ext3	defaults	
/dev/VolGroup00/LogVol06	j/data	ext3	defaults	
/dev/VolGroup00/LogVol04	/var	ext3	defaults	
/dev/VolGroup00/LogVol03	/tmp	ext3	defaults	
/dev/VolGroup00/LogVol02	/usr	ext3	defaults	
LABEL=/boot	/boot	ext3	defaults	
tmpfs	/dev/shm	tmpfs	defaults	
devpts	/dev/pts	devpts	gid=5,mode=620	
sysfs	/sys	sysfs	defaults	
ргос	/proc	ргос	defaults	
/dev/VolGroup00/LogVol01	. swap	swap	defaults	
nas1:awipsHOME	/home	nfs		
ns1:chpsSHARE	/awips/chps_share	nfs		
ns1:chpsARCHIVE	/awips/chps_archive	nfs	tcp,timeo=600,n	fsvers=3
<pre>chps3:/awips/chps_data</pre>	/awips/chps_data	nfs	tcp,timeo=600,r	w,nfsvers=2

fstab (chps2)

**If present, be sure to comment out the LogVol "/home" directory; not the nas1.

😣 🗐 🗊 root@chps2-acr:~					
	/		d = 6 = 1 + =		
αεν/νοιστουρωυ/Logvoluu	/	ext3	deraults		
/dev/VolGroup00/LogVol06	/data	ext3	defaults		
/dev/VolGroup00/LogVol04	/var	ext3	defaults		
/dev/VolGroup00/LogVol03	/tmp	ext3	defaults		
/dev/VolGroup00/LogVol02	/usr	ext3	defaults		
LABEL=/boot	/boot	ext3	defaults		
tmpfs	/dev/shm	tmpfs	defaults		
devpts	/dev/pts	devpts	gid=5,mode=620		
sysfs	/sys	sysfs	defaults		
ргос	/proc	ргос	defaults		
/dev/VolGroup00/LogVol01	swap	swap	defaults		
nas1:awipsHOME	/home	nfs			
ns1:chpsSHARE	/awips/chps_share	nfs			
ns1:chpsBACKUP	/awips/chps_backup	nfs			

fstab (chps3)

If present, be sure to comment out the LogVol "/home" directory; **not the nas1.

😣 🗐 🗉 🛛 root@chps3-acr:~				
/dev/VolGroup00/LogVol00	/	ext3	defaults	
/dev/VolGroup00/LogVol06	/awips/chps_data	ext3	defaults	
/dev/VolGroup00/LogVol07	/awips/chps_local	ext3	defaults	
/dev/VolGroup00/LogVol04	/var	ext3	defaults	
/dev/VolGroup00/LogVol03	/tmp	ext3	defaults	
/dev/VolGroup00/LogVol02	/usr	ext3	defaults	
LABEL=/boot	/boot	ext3	defaults	
tmpfs	/dev/shm	tmpfs	defaults	
devpts	/dev/pts	devpts	gid=5,mode=620	
sysfs	/sys	sysfs	defaults	
ргос	/proc	ргос	defaults	
/dev/VolGroup00/LogVol01	swap	swap	defaults	
nas1:awipsHOME	/home	nfs		
ns1:chpsSHARE	/awips/chps_share	nfs		
ns1:chpsARCHIVE	/awips/chps_archive	nfs	<u>tcp,tim</u> eo=600,n	
ns1:share /awips/rep nfs tcp,timeo=600,nfsvers=3				

Configure DNS (Domain Name Server) and NIS (Network Information Service)

resolv.conf (chps1 chps2 & chps3)



search sr.nws.noaa.gov awips.noaa.gov
nameserver=165.92.240.2
nameserver=165.92.240.1
options ndots:4

nsswitch.conf (chps1 chps2 & chps3)

**Add "nis" to the lines shown

# Example: #passwd: #shadow: #group:	db files nisplus nis db files nisplus nis db files nisplus nis
passwd:	files nis
shadow:	files nis
group:	files nis
#hosts:	db files nisplus nis dns
hosts:	files nis dns

yp.conf (chps1 chps2 & chps3)

**Add the following line at the bottom

domain acr.awips1 broadcast

ntp.conf (chps1 chps2 & chps3)

**Edit the file so that the last five lines appear similiar to as shown

#restrict 0.rhel.pool.ntp.org mask 255.255.255.255 nomodify notrap noquery #restrict 1.rhel.pool.ntp.org mask 255.255.255.255 nomodify notrap noquery #restrict 2.rhel.pool.ntp.org mask 255.255.255.255 nomodify notrap noquery server 165.92.144.1

restrict 165.92.144.1 mask 255.255.255.0 nomodify notrap noquery

cron.allow (chps1 & chps3)

**Create this file if needed fews

cron.allow (chps2)

**Create this file if needed fews postgres

Configure NIC and Ethernet Interfaces

cd /etc/sysconfig (chps1 chps2 & chps3)

network (chps1 chps2 & chps3)

**Edit the file so that it looks like the following: NETWORKING=yes GATEWAY=165.92.144.70 HOSTNAME=chps1-acr <-HOSTNAME will changed base on the system (chps1 chps2 chps3) NISDOMAIN=acr.awips1

cd network-scripts (chps1 chps2 & chps3)

ifcfg-eth0 (chps1 chps2 & chps3)

**Edit the file so that it looks like the following: DEVICE=eth0 BOOTPROTO=static HWADDR=00:22:19:0B:F6:1E <-Do NOT change this line it is very specific to the hardware on your system ONBOOT=yes BROADCAST=165.92.144.127 IPADDR=165.92.144.91 <-Last number will change based on the systems (91 92 93) NETMASK=255.255.255.128 **Set the local time to GMT by issuing the following command:

cp /usr/share/zoneinfo/GMT /etc/localtime (chps1 chps2 & chps3) -> it will then ask if it can overwrite, so enter: y

**Set the local time to GMT (chps1 chps2 & chps3)

system-config-date

- -> a window will pop up
- -> click on the "Network Time Protocol" check box
- -> click on "Show advanced options"
- -> click on the unchecked box
 - "Synchronize system clock before starting service" so that it is checked
- -> click on the "Time Zone" tab
 - -> drag the slider bar to the bottom and click on "Non-geographic timeszones" and then click on
 - the triangle to the left so that it is pointed down
 - -> drag the slider bar down one line and click on "GMT"
 - -> make sure that the box in front of "System clock uses UTC" is checked
 - -> click on "OK"
- **Update some runlevel system services (chps1 chps2 & chps3)
- chkconfig --level 2345 ypbind on chkconfig --level 2345 ntpd on chkconfig --level 2345 sendmail off

**Reboot each system after completing the above setup. reboot

On chps1, as user "root"

vgdisplay Ivcreate -L 5G -n LogVol06 VolGroup00 Ivdisplay mkfs -t ext3 /dev/VolGroup00/LogVol06 vgdisplay Ivcreate -L 20G -n LogVol07 VolGroup00 Ivdisplay mkfs -t ext3 /dev/VolGroup00/LogVol07

**Remove the logical volume that originally contained the /home directory **Check the /etc/fstab file

lvremove /dev/VolGroup00/LogVol05
 **answer "y" when asked if you are sure

vi /etc/fstab

**Add the following lines: /dev/VolGroup00/LogVol07 /awips/chps_local ext3 defaults 1 2 /dev/VolGroup00/LogVol06 /data ext3 defaults 1 2

**Remove the following line: /dev/VolGroup00/LogVol05 /home ext3 defaults 1 2

cd /usr/bin In -s /bin/bash sh

cd / mkdir /data mkdir -p /awips/chps_local/schemas cd /awips mkdir hydroapps mkdir chps_share mount -a

***ERROR NOTE: If you get the following error:

"mount: mount to NFS server 'ns1' failed: RPC Error: Program not registered." Go check /etc/hosts for an error in the ns1 address

cd /awips chmod -R 775 * chown -R fews:fxalpha * mkdir -p /var/awips/hydroapps In -s /awips/chps_local /var/awips/hydroapps/chps In -s /awips/chps_local /opt/fews In -s /awips/chps_local /awips/hydroapps/chps In -s /awips/chps share /var/awips/rep

On chps3 as user "root"

cd /usr/bin In -s /bin/bash sh

vgdisplay Ivcreate -L 20G -n LogVol06 VolGroup00 Ivdisplay mkfs -t ext3 /dev/VolGroup00/LogVol06

lvcreate -L 20G -n LogVol07 VolGroup00 lvdisplay mkfs -t ext3 /dev/VolGroup00/LogVol07

**Remove the logical volume that originally contained the /home directory **Check the /etc/fstab file

lvremove /dev/VolGroup00/LogVol05
 **answer "y" when asked if you are sure

vi /etc/fstab

**Add the following lines: /dev/VolGroup00/LogVol06 /awips/chps_data ext3 defaults 1 2 /dev/VolGroup00/LogVol07 /awips/chps_local ext3 defaults 1 2 **Remove the following line: /dev/VolGroup00/LogVol05 /home ext3 defaults 1 2

mkdir -p /awips/chps_data

cd /awips mkdir chps_local mkdir hydroapps mkdir chps_share mount -a

cd /awips chmod -R 775 * chown -R fews:fxalpha *

mkdir -p /var/awips/hydroapps In -s /awips/chps_local /var/awips/hydroapps/chps In -s /awips/chps_local /opt/fews In -s /awips/chps_local /awips/hydroapps/chps In -s /awips/chps_data /awips/hydroapps/chps/data In -s /awips/chps_share /var/awips/rep

cd /awips/chps_local mkdir install mkdir -p /awips/chps_local/scripts/logs mkdir -p /awips/chps_local/fss/aprfc

cd /awips/chps_local chmod -R 775 * chown -R fews:fxalpha *

cd /awips/chps_data mkdir toCHPS mkdir fromCHPS

cd fromCHPS mkdir aprfc

cd /awips/chps_data/toCHPS mkdir aprfc

cd aprfc mkdir cardfiles failed grib1 modifiers ofsde pixml ratings shef cd grib1 mkdir fle flf pe pef qpe qpf qte qtf

cd /awips/chps_data

chmod -R 775 * chown -R fews:fxalpha *

cd /usr/lib scp -r root@lx1:/usr/lib/libg2c.so.0.0.0 . In -s libg2c.so.0.0.0 libg2c.so.0

On chps2, as user "root"

cd /usr/bin In -s /bin/bash sh

lvcreate -L 100G -n LogVol06 VolGroup00 lvdisplay mkfs -t ext3 /dev/VolGroup00/LogVol06

**Remove the logical volume that originally contained the /home directory **Check the /etc/fstab file

lvremove /dev/VolGroup00/LogVol05
 **answer "y" when asked if you are sure

vi /etc/fstab

**Add the following line: /dev/VolGroup00/LogVol06 /data ext3 defaults 1 2
**Remove the following line: /dev/VolGroup00/LogVol05 /home ext3 defaults 1 2

cd / mkdir /data mkdir -p /awips/chps_share mount -a

cd /awips chmod 775 * chown fews:fxalpha * mkdir -p /var/awips/ In -s /awips/chps_share /var/awips/rep

As user "root" on all three systems, do the following:

Issue the following command: uname -a

***Check the results to make sure a 64 bit operating system was loaded

On chps1 and chps3 as user "root"

**Load the "Postgresql 8.2.11 64-bit" RPM's

cd /usr scp fews@dx1:/home/hrl/chps_install/pg.tar.gz . tar -zxvf pg.tar.gz cd zzz rpm -Uvh *rpm cd /usr rm -rf zzz rm pg.tar.gz

On chps2 as user "root"

**Load the "Postgresql 8.2.11 64-bit" RPM's

cd /usr scp fews@dx1:/home/hrl/chps_install/pg.tar.gz . tar -zxvf pg.tar.gz cd zzz rpm -Uvh *rpm cd /usr rm -rf zzz rm pg.tar.gz

cd /data mkdir -p fewsdb/acrdb00_data mkdir -p fewsdb/acrdb00_idx mkdir pg_data chmod -R 700 * chown -R postgres:postgres *

cd /var/lib/pgsql rm -rf data

In -s /data/pg_data data

**Start the PostgrSQL Server

su - postgres initdb <-Do NOT run this command again

pg_ctl -D /var/lib/pgsql/data -I logfile start

exit

**You are now user "root"

chkconfig --level 345 postgresql on

**Reboot all three computers reboot

On dx1 as user "fews"

**Replace the content of the /home/fews/.bash_profile file with the following:

Source global definitions if [-f /etc/bashrc]; then

. /etc/bashrc

fi

export JAVA_HOME=/awips/chps_local/java PATH=\${JAVA_HOME}/bin:\$PATH:\$HOME/bin export FEWS_MC_HOME=/awips/chps_local/mc/mcs/acrmc00 export FEWS_JBOSS_HOME=/awips/chps_local/jboss

SYSx=`hostname | cut -c1-5` if ["\$SYSx" = chps4] then export FEWS_MC_HOME=/awips/chps_local/mc/mcs/acrmc01 fi

export PATH unset USERNAME alias mcstop='cd \$FEWS_MC_HOME && NFFS_HOME=\$(pwd) build/scripts/stopall.sh' alias mcstart='cd \$FEWS_MC_HOME && NFFS_HOME=\$(pwd) build/scripts/restart.sh nl.wldelft.fews.master.mc.systemmonitor.main.SystemMonitor' alias mccomp='cd \$FEWS_MC_HOME && NFFS_HOME=\$(pwd) build/scripts/restart.sh'

alias startjboss='nohup \${FEWS_JBOSS_HOME}/bin/run.sh -c fews &' alias stopjboss='\${FEWS_JBOSS_HOME}/bin/shutdown.sh -S'

****NOTE**** Do not understand NFFS_HOME setting

On chps1 as user "root"

cd /awips scp fews@dx1:/awips/keys.tar . tar -xvf keys.tar service sshd restart

su - fews

mkdir -p /awips/chps_share/install/mc_2010.01.24695 mkdir /awips/chps_share/install/release_20091215

cd /awips/chps_share/install/release_20091215 scp fews@dx1:/home/hrl/chps_install/Release_NWS_CHPS_20091215.tar.gz . tar -zxvf Release_NWS_CHPS_20091215.tar.gz rm Release_NWS_CHPS_20091215.tar.gz

cd mc cp release.jboss.24695.zip /awips/chps_share/install/mc_2010.01.24695 cd /awips/chps_share/install/mc_2010.01.24695 unzip release.jboss.24695.zip cd scripts chmod +x *.sh

cd /awips/chps_share/install/ scp fews@dx1:/home/hrl/chps_install/3party.tar.gz . tar -zxvf 3party.tar.gz rm 3party.tar.gz cd /awips/chps_share/install/3rd_Party_Software/JBoss unzip jboss-jms.zip **answer "A" when asked: replace app-jboss-jms/mssql/config/mssql-ds.xml? [y]es, [n]o, [A]II, [N]one, [r]ename:

On chps2 as user "root"

cd /awips scp fews@dx1:/awips/keys.tar . tar -xvf keys.tar service sshd restart

cd /var/lib/pgsql mkdir -p fews/jboss

cd fews/jboss cp -r /awips/chps_share/install/mc_2010.01.24695/postgresql/8.x . cd 8.x rm -rf *.bat chmod +x *.sh

cd /var/lib/pgsql/data

 autovacuum = on stats_start_collector = on stats_row_level = on timezone = GMT listen_addresses = '*' !!!make sure the # comment is removed!!!

vi pg_hba.conf

TYPE DATABASE USER CIDR-ADDRESS METHOD

"local" is for Unix domain socket connections only local all all trust # IPv4 local connections: host all all 127.0.0.1/32 ident sameuser host all all 165.92.144.0/24 trust host all all 165.92.28.0/24 trust <- support system access # IPv6 local connections: host all all ::1/128 ident sameuser

cd /var/lib/pgsql/fews/jboss/8.x

./db_user_creation.sh acrdb00 fews00 pass01word

./tbs_creation.sh acrdb00 fews00 /data/fewsdb/acrdb00_data /data/fewsdb/acrdb00_idx

./schema_creation.sh acrdb00 fews00

./view_creation.sh acrdb00 fews00

su - postgres

pg_ctl -D /var/lib/pgsql/data -I logfile restart

On chps3 as user "root"

cd /awips scp fews@dx1:/awips/keys.tar . tar -xvf keys.tar service sshd restart DO THE FOLLOWING ON ALL THREE (3) OF THE chps COMPUTERS as user "root"

cd /etc

**Put the usual warnings in the issue file & remove anything already in the file vi issue

**Note: the usual warning is as follows:

"This is a United States National Weather Service computer system, which may be accessed and used only for official Government business by authorized personnel. Unauthorized access or use of this computer system may subject violators to criminal, civil, and/or administrative. action. All information on this computer system may be intercepted, recorded, read, copied, and disclosed by and to authorized personnel for official purposes, including criminal investigations. Access or use of this computer system by any person whether authorized or unauthorized, constitutes consent to these terms."

cp issue issue.net *answer "y" when assked: cp: overwrite `issue.net'?

cp issue motd *answer "y" when assked: cp: overwrite `issue.net'?

On chps3 as user "root"

cd /etc

vi /etc/exports

**Add the following line: /awips/chps_data chps1-acr(ro,root_squash) vi /etc/hosts

**Add the following line: 165.92.144.91 chps1-acr chps1

service nfs restart

exportfs -a -v

On chps1 as user "root"

cd /awips mkdir chps_data chmod 775 chps_data chown fews:fxalpha chps_data

vi /etc/fstab

**Add the following line at the bottom: chps3:/awips/chps_data /awips/chps_data nfs tcp,timeo=600,nfsvers=2

vi /etc/hosts

**Add the following line: 165.92.144.93 chps3-acr chps3

service nfs restart

mount -a

chkconfig --level 345 nfs on

su - fews

In -s /awips/chps_data /awips/hydroapps/chps/data

cd /awips/chps_local cp /awips/chps_share/install/3rd_Party_Software/Apache/apache-tomcat-5.5.27.zip . cp /awips/chps_share/install/3rd_Party_Software/JBoss/jboss-4.0.2.zip . cp /awips/chps_share/install/3rd_Party_Software/Java/jre-6u10-linux-i586.bin .

unzip apache-tomcat-5.5.27.zip mv apache-tomcat-5.5.27 tomcat rm apache-tomcat-5.5.27.zip

unzip jboss-4.0.2.zip mv jboss-4.0.2 jboss rm jboss-4.0.2.zip cd jboss/bin chmod +x *.sh

cd /awips/chps_local ./jre-6u10-linux-i586.bin *hit <spacebar> to question *answer "yes" and NOT "y" mv jre1.6.0_10 java rm jre-6u10-linux-i586.bin

On chps2 as user "root"

cd /var/lib/pgsql/fews/jboss/8.x cp -r /awips/chps_share/install/3rd_Party_Software/JBoss/app-jboss-jms/postgresql/sql/8.x/* . chmod +x *.sh

su - postgres

cd /var/lib/pgsql/fews/jboss/8.x ./user_and_tbs_creation.sh 2 4 On chps1 as user "fews"

cd /awips/chps_share/install/3rd_Party_Software/JBoss/app-jboss-jms/postgresql/lib cp postgresql-8.3-603.jdbc3.jar /awips/chps_local/jboss/server/fews/lib

cd /awips/chps_share/install/3rd_Party_Software/JBoss/app-jboss-jms/postgresql/config cp postgres-ds.xml /awips/chps_local/jboss/server/fews/deploy cd /awips/chps_local/jboss/server/fews/deploy

vi postgres-ds.xml

<connection-url>jdbc:postgresql://chps2:5432/jbossmq</connection-url>

*Change "localhost" to "chps2"

cd /awips/chps_share/install/3rd_Party_Software/JBoss/app-jboss-jms/postgresql/config cp postgres-jdbc2-service.xml /awips/chps_local/jboss/server/fews/deploy/jms cd /awips/chps_local/jboss/server/fews/deploy/jms rm mysql*

< open a new terminal window on the workstation >

cat /etc/hosts *locate IP Address of workstation *decide which screen you want the DBVisualizer to come up on xhost +

```
ssh -X fews@chps1
cd /awips/chps_share/install/3rd_Party_Software/DBVisualizer
./dbvis_linux_6_5_1.sh
```

If X complains export the Display: export display=165.92.xx.xx:0.2 Then rerun: ./dbvis_linux_6_5_1.sh

<next <accept the license - next <Destination Directory: /awips/chps_share/DbVisualizer-6.5.1 - next <Both components - next <select "Don't create symlinks" - next <next <Finish

cd /awips/chps_share/ mv DbVisualizer-6.5.1 DbVisualizer cd DbVisualizer ./dbvis

**Wait for the "Log" to show "PostgreSQL" along with "/awips/chps_share/DbVisualizer/jdbc/postgresql"

**If it seems to be stuck click on "Tools->Connection Wizard" near the bottom of the DbVisualizer window

<connection alias: acrdb - next <select database drive: PostgreSQL <from drop down menu> - next <connection window <server: chps2 <port: 5432

<database: acrdb00
<userid: fews00
<password: pass01word</pre>

<Test Connection - click on the button if successful Finish <close any boxes

-under "Connections" you should see your "connect alias" -under the "connect alias" you should see your <database -click on the little button in front of your <database -"fews00" should appear -click on "fews00" and a listing of items should appear

-click on "File" -highlight "Exit" On chps1 as user "fews"

cd /awips/chps_share cp /awips/chps_share/install/3rd_Party_Software/Java/jre-6u10-linux-i586.bin ./jre-6u10-linux-i586.bin *hit <spacebar> to question *answer "yes" and NOT "y" mv jre1.6.0_10 java rm jre-6u10-linux-i586.bin

mkdir -p /awips/chps_share/install/configurator/output cd /awips/chps_share/install/mc_2010.01.24695/configurator In -s /awips/chps_share/install/configurator/output /awips/chps_share/install/mc_2010.01.24695/ configurator/output

cd /awips/chps_share/install/configurator scp fews@dx1:/home/hrl/chps_install/installation_configurator_sh.zip . unzip installation_configurator_sh.zip chmod +x *.sh

< open a new terminal window on the workstation >

- < as user hrl < cd chps install
- < nedit config.dat
- < click on "Search"
 - < highlight "Replace"
 - < check boxes "Case Sensitive" & "Keep Dialog"
 - < click cursor to top line of file
 - < String to Find: APRFC
 - < Replace With: the rfc you are at
 - < repeat for aprfc, ACR, acr

< make necessary changes for the RFC being installed

< save the file "config.dat"

< exit for the terminal window

On chps1 as user "fews"

cd /awips/chps_share/install/configurator scp fews@dx1:/home/hrl/chps_install/config.dat . ./fews_installation_configurator.sh -p config.dat

cd /awips/chps_share/install/configurator/output/jboss cp jbossmq-destinations-service.xml /awips/chps_local/jboss/server/fews/deploy/jms

startjboss cd /awips/chps_local/jboss/server/fews/log tail -100 server.log ***Look for "Started" at the bottom

mkdir -p /awips/chps_local/mc/mcs/acrmc00 cd /awips/chps_share/install/mc_2010.01.24695/configurator/output/APRFC_ACRMC00/mc cp * /awips/chps_local/mc/mcs/acrmc00

mkdir -p /awips/chps_local/mc/builds cd /awips/chps_local/mc/builds cp -r /awips/chps_share/install/mc_2010.01.24695 . cd /awips/chps_local/mc/mcs/acrmc00 In -s /awips/chps_local/mc/builds/mc_2010.01.24695/ build

cp fews.master.mc.conf build/populater cd build/populater unzip populater.zip java -jar populate.jar cd ../scripts chmod +x *.sh

mcstart

cd /awips/chps_share/install/configurator/output/tomcat cp * /awips/chps_local/tomcat/conf cd /awips/chps_share/install/mc_2010.01.24695/lib cp postgresql-8.3-603.jdbc3.jar /awips/chps_local/tomcat/common/lib cp log4j-1.2.14.jar /awips/chps_local/tomcat/common/lib

cd /awips/chps_local/tomcat mkdir fews cd /awips/chps_share/install/mc_2010.01.24695/admin_interface cp fewsadmin.war /awips/chps_local/tomcat/fews cd /awips/chps_share/install/configurator/output/ai cp fewsadmin_acrmc00.xml /awips/chps_local/tomcat/fews

cd /awips/chps_local/tomcat/fews cp fewsadmin_acrmc00.xml /awips/chps_local/tomcat/conf/Catalina/localhost cd /awips/chps_local/tomcat/bin chmod +x *.sh ./startup.sh

>

>

>

>

>

- < go to netscape http://chps1:8080/manager/html >
- < admin
- < pass
- < select fewsadmin_acrmc00
- < admin
- < pass
- < admin pass !! may need to be entered a 2nd time >

**If "status 500" do the following: !! cd /awips/chps_local/tomcat/bin ./shutdown.sh ./startup.sh !!now run netscape again as shown above !!

mkdir -p /awips/chps_local/scripts/logs cd /awips/chps_local/scripts/ scp -r fews@dx1:/home/hrl/chps_install/fews_scripts/* . chmod +x *.sh

*** We cheated and ftp the 3 files over using: scp in the above lines***

cd /awips/chps_share/install/mc_2010.01.24695/scripts cp sysmon_watcher.sh /awips/chps_local/scripts/ cd unix_rc/jboss cp jboss_init_redhat.sh /awips/chps_local/scripts/ cd ../tomcat cp tomcat_init_redhat.sh /awips/chps_local/scripts/ cd /awips/chps_local/scripts/ chmod +x *.sh

vi jboss_init_redhat.sh

JBOSS_USR=\${JBOSS_USR:-"fews"} JBOSS_HOME=\${JBOSS_HOME:-"/awips/chps_local/jboss"} JAVA_HOME=\${JAVA_HOME:-"/awips/chps_local/java"} JBOSS_CONSOLE=\${JBOSS_CONSOLE:-"/awips/chps_local/jboss/log/jboss.log"}

vi tomcat init redhat.sh

TOMCAT_HOME=\${TOMCAT_HOME:-"/awips/chps_local/tomcat"} JAVA_HOME=\${JAVA_HOME:-"/awips/chps_local/java"} TOMCAT_CONSOLE=\${TOMCAT_CONSOLE:-"/awips/chps_local/tomcat/logs/ tomcat_boot.log"} TOMCAT_USR=\${TOMCAT_USR:-"fews"}

vi sysmon_watcher.sh

MC_ROOT_DIR=/awips/chps_local/mc/mcs/

su -

cd /etc/init.d In -s /awips/chps_local/scripts/jboss_init_redhat.sh jboss chkconfig --add jboss chkconfig --list jboss chkconfig --level 35 jboss on

In -s /awips/chps_local/scripts/tomcat_init_redhat.sh tomcat chkconfig --add tomcat

chkconfig --list tomcat chkconfig --level 35 tomcat on

exit **You are now user "fews" on chps1

crontab -e

0-59/5 * * * * /awips/chps_local/scripts/sysmon_watcher.sh 2>&1 > /awips/chps_local/scripts/ logs/sysmon_watcher.log

On chps3 as user "root"

su - fews

cd /awips/chps_local cp /awips/chps_share/install/3rd_Party_Software/Java/jre-6u10-linux-i586.bin ./jre-6u10-linux-i586.bin *hit <spacebar> to question *answer "yes" and NOT "y" mv jre1.6.0_10 java rm jre-6u10-linux-i586.bin chown -R fews:fxalpha java

cd /awips/chps_share/install/configurator/output/APRFC_ACRMC00/FSS cp -r FSS00 /awips/chps_local/fss/aprfc cp -r FSS01 /awips/chps_local/fss/aprfc

cd /awips/chps_share/install/mc_2010.01.24695/mcproxy cp * /awips/chps_local/fss/aprfc/FSS00/mcproxy cp * /awips/chps_local/fss/aprfc/FSS01/mcproxy

```
cd /awips/chps_local/fss/aprfc/FSS00/mcproxy
vi fews.master.mcproxy.conf
***do a search for "class"
find the line: <arg id="1" value="../apgrfc"/>
change it to : <arg id="1" value="/awips/chps_local/fss/aprfc/FSS00/FewsShell/
aprfc"/>
./mcproxy.sh start
```

cd /awips/chps_local/fss/aprfc/FSS01/mcproxy vi fews.master.mcproxy.conf

***do a search for "class"
 find the line: <arg id="1" value="../apgrfc"/>
 change it to : <arg id="1" value="/awips/chps_local/fss/aprfc/FSS00/FewsShell/
aprfc"/>
./mcproxy.sh start

>

>

>

>

>

>

>

< On the workstation, start netscape http://chps1:8080 >

- < "TOMCAT MANAGER"
- < admin
- < pass
- < select fewsadmin_acrmc00
- < admin
- < pass
- < See if it is green.

cd /awips/chps_share/install/mc_2010.01.24695/scripts/mcproxy cp mcproxy_watcher.sh /awips/chps_local/scripts cd /awips/chps_local/scripts chmod +x *.sh

vi mcproxy_watcher.sh ------FSS_ROOT_DIR=/awips/chps_local/fss

crontab -e

0-59/5 * * * * /awips/chps_local/scripts/mcproxy_watcher.sh 2>&1 > /awips/chps_local/scripts/ logs/mcproxy_watcher.log

******Can't get this done

cd /awips/chps_local/fss/aprfc/FSS00/FewsShell/aprfc cp -rf /awips/chps_local/install/aprfc/FSS_APRFC/* .

cp /awips/chps_local/install/fews/fews-bin-development-20466.zip . unzip fews-bin-development-20466.zip

cd /awips/chps_local/fss/aprfc/FSS01/FewsShell cp -rf /awips/chps_local/fss/aprfc/FSS00/FewsShell/* .

*****Can't get this done

cd /awips/hydroapps/chps/data/fromCHPS/aprfc mkdir import_backup mkdir import_failed mkdir DumpFiles chmod 775 *

cd /awips/chps_share/install scp fews@dx1:/home/hrl/chps_install/Release_NWS_CHPS_20100129.tar.gz . tar -zxvf Release_NWS_CHPS_20100129.tar.gz

cd /awips/chps_local mkdir fews hec ohd chmod 775 fews hec ohd

cd /awips/chps_local/ohd cp -r /awips/chps_share/install/20100129/fss/Models/ohd/bin . chmod -R +x *

cd ../fews cp -r /awips/chps_share/install/release_20091215/delft_fews_binaries/bin . chmod -R +x * chmod -R -x bin/*.jar In -s /awips/chps_local/java jre

cd ../hec mkdir hecras cd hecras scp -r fews@165.92.28.93:/opt/fews/hec/hecras/bin .

****STOPPED HERE FOR THE EVENING****

cd /awips/chps_share mkdir oc fews hec migration_scripts ohd scripts mkdir -p sa/oper chmod -R 775 *

-----> In each of the OC's created in /awips/chps_share/oc the following logical links need to be created: In -s /awips/chps_share/fews/bin bin In -s /awips/chps_share/fews/jre jre

cd ohd cp -r /awips/chps_share/install/oct2010_boc/fss/Models/ohd/bin . chmod -R +x *

cd ../fews cp -r /awips/chps_share/install/oct2010_boc/delft_fews_binaries/bin . chmod -R +x * chmod -R -x bin/*.jar In -s /awips/chps_share/java jre

cd ../hec cp -r /awips/chps_local/hec/* .

cd ../migration_scripts scp fews@165.92.28.1:/awips/chps_share/install/jun2010/migration_scripts/ migrationscripts_May2010.zip unzip migrationscripts_May2010.zip

cd ../scripts scp fews@dx1:/home/hrl/chps_install/setdisplay.tar.gz tar -zxvf setdisplay.tar.gz

cd /awips/chps_local/fss/aprfc/FSS00/FewsShell/ In -s /awips/chps_local/fews/bin bin

mkdir -p /awips/chps_local/fss/aprfc/FSS00/FewsShell/aprfc/Models/ohd mkdir -p /awips/chps_local/fss/aprfc/FSS00/FewsShell/aprfc/Models/hec/hecras mkdir -p /awips/chps_local/fss/aprfc/FSS00/FewsShell/aprfc/Models/hec/ressim

cd /awips/chps_local/fss/aprfc/FSS00/FewsShell/aprfc/Models/ohd In -s /awips/chps_local/ohd/bin bin cd /awips/chps_local/fss/aprfc/FSS00/FewsShell/aprfc/Models/hec/hecras In -s /awips/chps_local/hec/hecras/bin bin cd /awips/chps_local/fss/aprfc/FSS00/FewsShell/aprfc/Models/hec/ressim In -s /awips/chps_local/hec/ressim/bin bin

cd /awips/chps_local/fss/aprfc/FSS01/FewsShell/ In -s /awips/chps_local/fews/bin bin

mkdir -p /awips/chps_local/fss/aprfc/FSS01/FewsShell/aprfc/Models/ohd mkdir -p /awips/chps_local/fss/aprfc/FSS01/FewsShell/aprfc/Models/hec/hecras mkdir -p /awips/chps_local/fss/aprfc/FSS01/FewsShell/aprfc/Models/hec/ressim

cd /awips/chps_local/fss/aprfc/FSS01/FewsShell/aprfc/Models/ohd In -s /awips/chps_local/ohd/bin bin cd /awips/chps_local/fss/aprfc/FSS01/FewsShell/aprfc/Models/hec/hecras In -s /awips/chps_local/hec/hecras/bin bin cd /awips/chps_local/fss/aprfc/FSS01/FewsShell/aprfc/Models/hec/ressim In -s /awips/chps_local/hec/ressim/bin bin

mkdir /awips/chps_share/install/deltares_init_config chmod -R 775 /awips/chps_share/install/deltares_init_config

cd /awips/chps_share/install/deltares_init_config scp fews@165.92.28.1:/home/oper/CHPS/root_config/aprfc.tar.gz . tar -zxvf aprfc.tar.gz tar -zxvf aprfc_root.tgz mv aprfc_sa.tgz /awips/chps_share/sa/oper

cd /awips/chps_local/fss/aprfc/FSS00/FewsShell/aprfc/ cp /awips/chps_share/install/deltares_init_config/RootConfigFiles/*.xml . cp /awips/chps_share/install/deltares_init_config/RootConfigFiles/201001_patch.jar . cp /awips/chps_share/install/deltares_init_config/RootConfigFiles/fss_global.properties . rm oc_synchConfig.xml

cd /awips/chps_local/fss/aprfc/FSS01/FewsShell/aprfc/ cp /awips/chps_share/install/deltares_init_config/RootConfigFiles/*.xml . cp /awips/chps_share/install/deltares_init_config/RootConfigFiles/201001_patch.jar . cp /awips/chps_share/install/deltares_init_config/RootConfigFiles/fss_global.properties . rm oc_synchConfig.xml

mkdir -p /awips/chps_share/oc/oper/aprfc_oc/Models/ohd

mkdir -p /awips/chps_share/oc/oper/aprfc_oc/Models/hec/hecras

mkdir -p /awips/chps_share/oc/oper/aprfc_oc/Models/hec/ressim

In -s /awips/chps_share/fews/bin /awips/chps_share/oc/oper/bin

In -s /awips/chps_share/java /awips/chps_share/oc/oper/jre

In -s /awips/chps_share/ohd/bin /awips/chps_share/oc/oper/aprfc_oc/Models/ohd/bin

In -s /awips/chps_share/hec/hecras/bin /awips/chps_share/oc/oper/aprfc_oc/Models/hec/hecras/ bin

cd /awips/chps_share/oc/oper/aprfc_oc

- cp /awips/chps_share/install/deltares_init_config/RootConfigFiles/*.xml .
- cp /awips/chps_share/install/deltares_init_config/RootConfigFiles/201001_patch.jar .

cp /awips/chps_share/install/deltares_init_config/RootConfigFiles/oc_global.properties .

cd /awips/chps_share/sa/oper

cp /awips/chps_share/install/deltares_init_config/RootConfigFiles/sa_global.properties .

cd /awips/chps_share

mkdir -p /awips/chps_share/oc/oper/aprfc_oc/DumpFiles

mkdir -p /awips/chps_share/oc/oper/aprfc_oc/temp

mkdir -p /awips/chps_share/oc/oper/aprfc_oc/Export

mkdir -p /awips/chps_share/oc/oper/aprfc_oc/ColdStates

mkdir -p /awips/chps_local/fss/aprfc/FSS00/FewsShell/aprfc/DumpFiles mkdir -p /awips/chps_local/fss/aprfc/FSS00/FewsShell/aprfc/Import mkdir -p /awips/chps_local/fss/aprfc/FSS01/FewsShell/aprfc/DumpFiles mkdir -p /awips/chps_local/fss/aprfc/FSS01/FewsShell/aprfc/Import

cd /home/fews scp fews@dx1:/home/hrl/chps_install/taskp.tar . scp fews@dx1:/home/hrl/chps_install/workflows.tar . tar -xvf taskp.tar tar -xvf workflows.tar rm taskp.tar rm workflows.tar

cd /awips/chps_share/install/deltares_init_config rm aprfc.tar.gz rm aprfc_root.tgz

To reset the hardware clock to the system time run the following command:

hwclock --systohc

WORKSTATIONS CHANGES FOR RUNNING THE CHPS SOFTWARE

**** Adding additional dedicate unallocated vg00 disk space to the /tmp and /data ****

**** directories on any workstation to be used for chps ****

**** Instructions for adding the display option are located at the bottom of **** **** this section ****

On any Ix workstation - set up to run chps - as user "root"

su - fews cd /awips/chps_share/scripts/setdisplay

**Edit the "sudoers" file and make any additions to the file as needed for for your site.

**Changes will need to be made in two areas of the file specific to your location:

- 1. "Host alias specification"
- 2. "User alias specification"

**Use the editor "visudo".

visudo

exit

**You are now user "root"

cd /awips mkdir chps_share chmod 775 chps_share chown fxa:fxalpha chps_share ls -alrt |grep chps_share

mkdir -p /var/awips cd /var chmod 775 awips chown fews:fxalpha awips ls -alrt |grep awips su - fews

In -s /awips/chps_share /var/awips/rep cd /var/awips Is -alrt

exit

**You are now user "root" on the workstation

vi /etc/fstab

**Add the following line to the bottom: ns1:chpsSHARE /awips/chps_share nfs tcp,timeo=600,nfsvers=2

mount -a df -h

cd /var vgdisplay

**Look for the following line: Free PE / Size 1206 / 4.71 GB
**The second number (4.71 GB) will indicate the amount of unallocated disk space in vg00. There should be over 2 GB available. We will assign 1GB to the "/tmp" partition.

df -h |more

**Check for the lvol group /tmp belongs to lvol2 **Check for the lvol group /data belongs to lvol11

lvextend -L 1G /dev/vg00/lvol02 resize2fs /dev/vg00/lvol02

lvextend -L 5G /dev/vg00/lvol11 resize2fs /dev/vg00/lvol11

**Check that it worked df -h |more

cd /data mkdir chps chmod 775 chps chown fews:fxalpha chps ls -al |grep chps

*****Adding the multiple screen options*****

cd /etc

**Be sure that you have edited the "sudoers" file in /awips/chps_share/scripts/setdisplay as instructed at the beginning of this sections

chmod 640 sudoers

cp /awips/chps_share/scripts/setdisplay/sudoers . **Since you are overwriting an existing file, it will ask you if it is ok, so answer "y"

chmod 440 sudoers

Login as any user , but start with user "fews".

Click on the RedHat Symbol located on the panel and then click on "Control Center"

On the left side of the "Control Center" Window click on "Desktop".

This will expand the options, now click on "Behavior".

On the right side of the Behavior-Control Center window. Find the "Mouse Button Actions" section and click on the "Edit..." button on the same line as "Left button:" and "Custom Menu 1"

A "Menu Editor - Control Center" popup window will appear. Clink on the "New..." button.

A "Choose Applications" window will open. Near the top on the right hand side of the window will be a button with what looks like a folder, this is the browse button, click on it.

A "Control Center" window will open up. In the top box, it will have the image of a folder on the left side of the box, type in "/awips/chps_share/scripts/setdisplay/" and hit <Enter>.

Highlight "changeDisplay.sh" in the large, middle box and click the "OK" button.

Click the "OK" button on the next two windows and then clcik on "Apply".

Finally test the install

Log out and then log back in as the same user.

Click the left mouse button and choose "changeDispaly.sh"

Choose the first or second otion.

Log out and then log back in again.

What do you see???

INSTALLING THE APACHE WEB SERVER ON CHPS1

Get out the box containing the RedHat Enterprise Release DVD's

Find the DVD labelled: DVD1 For 64-BIT INTEL REDHAT ENTERPRISE RELEASE 5.3

Place it into the DVD Drive on chps1 chps1 is located on the bottom of the RP Rack

Get out the system monitor in the RP Rack and press number 3 on the "Rose" or "Black Box" monitor selector

Log in as user "root"

When the screen comes up you will see the image of a DVD with the name: "RHEL5.3x86_64" Place the pointer over the DVD image and double-click on it

Find the folder labelled "Server" and double-click on it.

Find the file labelled httpd-2.2.3-22.elm5x86_64rpm and double-click on it It will come up and tell you about two dependances, load them It will ask about loading a "Key" ... load it.

When it has finished loading the program, close the window and left-click on the DVD image and select "Eject ..." The DVD tray should pop out of chps1

Log off chps1 and put the system monitor away.

Log on to chps3 as user "fews"

cd /awips/chps_local

ls -al

**Check for a directory named "schemas" if it is not there, that is fine If it exists remove using the following command: rm -rf schemas

cd /awips/chps_share/install scp fews@dx1:/home/hrl/chps_install/apache.tar.gz . tar -zxvf apache.tar.gz

ssh chps1 **You are now user "fews" on chps1

cd /awips/chps_local mkdir schemas

cd schemas cp /awips/chps_share/fews/bin/Delft_FEWS_schemas.jar . unzip Delft_FEWS_schemas.jar

cd apache_install

vi httpd.conf

**Search for "ServerName" and include the RFC's three letter id after "chps1-" For example for ACR you would have "ServerName chps1-acr"

**Search for "DocumentRoot" and remove the following: /schemas It should now look like DocumentRoot "/awips/chps_local"

su -**You are now user "root" on chps1

cd /etc/httpd/conf cp /awips/chps_local/schemas/apache_install/httpd.conf . **If asked if you want to overwrite answer "y"

cd /etc/httpd/conf.d cp /awips/chps_local/schemas/apache_install/welcome.conf . **If asked if you want to overwrite answer "y" chkconfig --level 2345 httpd on chkconfig --list httpd

service httpd start

Bring up Mozilla Firefox and enter "http://chps1/" You should now see the schema files