# sjos.rec file

cdvr-rec-sjos-a-38 69.240.99.46 69.240.97.34 10.43.85.42 10.43.85.43 10.35.251.138

cdvr-rec-sjos-a-39 69.240.98.86 69.240.99.50 10.43.85.44 10.43.85.45 10.35.251.139

cdvr-rec-sjos-a-40 69.240.99.58 69.240.98.178 10.43.85.46 10.43.85.47 10.35.251.140

cdvr-rec-sjos-a-41 69.240.99.14 69.240.99.182 10.43.85.48 10.43.85.49 10.35.251.141

# cisco.rec script creates tests and does validation of results0

# tests

# recorder SubnetTable contents

[root@cdvr-rec-sjos-a-38 ~]# cat /arroyo/test/SubnetTable

network 69.240.97.32 netmask 255.255.255.252 gateway 69.240.97.33

network 10.43.85.0 netmask 255.255.255.128 gateway 10.43.85.1

## eth1 test on SubnetTable

echo "echo \" \" " >>$loc/recorder\_sit\_$site

echo "echo Verifying parameters on the subnet file" >>$loc/recorder\_sit\_$site

echo "eth1\_net=`echo \$eth1\_ip | awk -F '.' '{print \$1\".\"\$2\".\"\$3\".\"\$4-2}'`" >>$loc/recorder\_sit\_$site

echo "eth1\_sub=\$(cat /arroyo/test/SubnetTable | grep \$eth1\_net | awk '{print \$2}')" >>$loc/recorder\_sit\_$site

echo " if [ -z \$eth1\_sub ]" >>$loc/recorder\_sit\_$site

echo " then" >>$loc/recorder\_sit\_$site

echo " echo -e \"Rec.27.1: $host\_name Verify eth1 network ip\\t\\t\\t\\t\\t\\t---FAILED check subnet file designed $eth1\_ip\"">>$loc/recorder\_sit\_$site

echo " else" >>$loc/recorder\_sit\_$site

echo " echo -e \"Rec.27.1: $host\_name Verify eth1 network ip\\t\\t\\t\\t\\t\\t---PASSED \$eth1\_net\"" >>$loc/recorder\_sit\_$site

echo "fi" >>$loc/recorder\_sit\_$site

## eth6 test on SubnetTable ##(corrections here to allow for different subnets. CIDR /24 /23 /22 /21 or 0 128 192 224)

# eth6\_last\_octet=`echo \$eth6\_ip | awk -F '.' '{print $4}'`

# 64 32 16 8 4 2 --> maximum subnets

# 2 6 14 30 62 126 --> useable addresses

# 252 248 240 224 192 128 --> last octet of mask

# networks will be at

0 to 3, 4 to 7, 8 to 11, 12 to 15, 16 to 19, 20 to 23, 24 to 27, 28 to 31, 32 to 35, 36 to 39, 40 to 43, 44 to 47, 48 to 51, 52 to 55, 56 to 59, 60 to 63, 64 to 67, 68 to 71, 72 to 75, 76 to 79, 80 to 83, 84 to 87, 88 to 91, 92 to 95, 96 to 99, 100 to 103, 104 to 107, 108 to 111, 112 to 115, 116 to 119, 120 to 123, 124 to 127, 128 to 131, 132 to 135, 136 to 139, 140 to 143, 144 to 147, 148 to 151, 152 to 155, 156 to 159, 160 to 163, 164 to 167, 168 to 171, 172 to 175, 176 to 179, 180 to 183, 184 to 187, 188 to 191, 192 to 195, 196 to 199, 200 to 203, 204 to 207, 208 to 211, 212 to 215, 216 to 219, 220 to 223, 224 to 227, 228 to 231, 232 to 235, 236 to 239, 240 to 243, 244 to 247, 248 to 251, 252 to 255 for 252 mask or /30 or 64 nets

0 to 7, 8 to 15, 16 to 23, 24 to 31, 32 to 39, 40 to 47, 48 to 55, 56 to 63, 64 to 71, 72 to 79, 80 to 87, 88 to 95, 96 to 103, 104 to 111, 112 to 119, 120 to 127, 128 to 135, 136 to 143, 144 to 151, 152 to 159, 160 to 167, 168 to 175, 176 to 183, 184 to 191, 192 to 199, 200 to 207, 208 to 215, 216 to 223, 224 to 231, 232 to 239, 240 to 247, 248 to 255 for 248 mask or /29 or 32 nets

0 to 15, 16 to 31, 32 to 47, 48 to 63, 64 to 79, 80 to 95, 96 to 111, 112 to 127, 128 to 143, 144 to 159, 160 to 175, 176 to 191, 192 to 207, 208 to 223, 224 to 239, 240 to 255 for 240 mask or /28 or 16 nets

0 to 31, 32 to 63, 64 to 95, 96 to 127, 128 to 159, 160 to 191, 192 to 223, 224 to 255 for 224 mask or /27 or 8 nets

0 to 63, 64 to 127, 128 to 191, 192 to 255 for 192 mask or /26 or 4 nets

0 to 127 and 128 to 255 for 128 mask or /25 or 2 nets

0 to 255 for 0 mask or /24 or 1 net

echo "eth6\_net=`echo \$eth6\_ip | awk -F '.' '{print \$1\".\"\$2\".\"\$3\".\"\$4-2}'`" >>$loc/recorder\_sit\_$site

echo "eth6\_sub=\$(cat /arroyo/test/SubnetTable | grep \$eth6\_net | awk '{print \$2}')" >>$loc/recorder\_sit\_$site

# SubnetTable entry is: network 10.43.85.0 netmask 255.255.255.128 gateway 10.43.85.1

# That makes all the following yield failed unless the mask is a 255.255.255.252

echo " if [ -z \$eth6\_sub ]" >>$loc/recorder\_sit\_$site

echo " then" >>$loc/recorder\_sit\_$site

echo " echo -e \"Rec.27.2: $host\_name Verify eth6 network ip\\t\\t\\t\\t\\t\\t---FAILED check subnet file designed $eth6\_ip\"">>$loc/recorder\_sit\_$site

echo " else" >>$loc/recorder\_sit\_$site

echo " echo -e \"Rec.27.2: $host\_name Verify eth6 network ip\\t\\t\\t\\t\\t\\t---PASSED \$eth6\_net\"">>$loc/recorder\_sit\_$site

echo "fi" >>$loc/recorder\_sit\_$site

# recorder\_sit\_sjos validation

----- snip

#This section verifies IP configs by matching configs with design IPs

echo -e "Rec.1: cdvr-rec-sjos-a-41 Access through CLI on mgmt \t\t\t\t\t\t---PASSED"

eth0=$(cat /etc/sysconfig/network-scripts/ifcfg-eth0 | grep 'IPADDR' | awk -F"=" '{ print $2}')

if [[ $eth0 = 69.240.99.14 ]]

then

echo -e "Rec.2: cdvr-rec-sjos-a-41 Verify eth0 IPs\t\t\t\t\t\t\t---PASSED"

else

echo -e "Rec.2: cdvr-rec-sjos-a-41 Verify eth0 IPs\t\t\t\t\t\t\t---FAILED"

fi

eth4=$(cat /etc/sysconfig/network-scripts/ifcfg-eth4 | grep 'IPADDR' | awk -F"=" '{ print $2}')

if [[ $eth4 = 10.43.85.48 ]]

then

echo -e "Rec.3: cdvr-rec-sjos-a-41 Verify eth4 IPs\t\t\t\t\t\t\t---PASSED"

else

echo -e "Rec.3: cdvr-rec-sjos-a-41 Verify eth4 IPs\t\t\t\t\t\t\t---FAILED"

fi

eth6=$(cat /etc/sysconfig/network-scripts/ifcfg-eth6 | grep 'IPADDR' | awk -F"=" '{ print $2}')

if [[ $eth6 = 10.43.85.49 ]]

then

echo -e "Rec.4: cdvr-rec-sjos-a-41 Verify eth6 IPs\t\t\t\t\t\t\t---PASSED"

else

echo -e "Rec.4: cdvr-rec-sjos-a-41 Verify eth6 IPs\t\t\t\t\t\t\t---FAILED"

fi

----- end snip

----- snip

echo Verify all Interfaces are up and running

ethtool eth0 | grep -i "link detected" | awk -F ':' '{print "Rec.21.1: cdvr-rec-sjos-a-41 eth0 detected\t\t\t\t\t\t\t---"$2}'

ethtool eth1 | grep -i "link detected" | awk -F ':' '{print "Rec.21.2: cdvr-rec-sjos-a-41 eth1 detected\t\t\t\t\t\t\t---"$2}'

ethtool eth4 | grep -i "link detected" | awk -F ':' '{print "Rec.21.3: cdvr-rec-sjos-a-41 eth4 detected\t\t\t\t\t\t\t---"$2}'

ethtool eth6 | grep -i "link detected" | awk -F ':' '{print "Rec.21.4: cdvr-rec-sjos-a-41 eth6 detected\t\t\t\t\t\t\t---"$2}'

----- end snip

----- snip

echo Verifying parameters on the Setupfile

----- end snip

----- snip

eth0\_fn=$(cat /arroyo/test/setupfile | grep management | awk '{print $2}')

echo -e "Rec.23.4: cdvr-rec-sjos-a-41 Verify that eth0 is used for mgmt\t\t\t\t---$eth0\_fn"

eth4\_fn=$(cat /arroyo/test/setupfile | grep -E ingest | grep -E eth4 | awk '{print $2}')

echo -e "Rec.23.5a: cdvr-rec-sjos-a-41 Verify that eth4 is used for mulitcast ingest\t\t\t---$eth4\_fn"

eth6\_fn=$(cat /arroyo/test/setupfile | grep -E ingest | grep -E eth6 | awk '{print $2}')

echo -e "Rec.23.5b: cdvr-rec-sjos-a-41 Verify that eth6 is used for mulitcast ingest\t\t\t---$eth6\_fn"

eth0\_ctr=$(cat /arroyo/test/setupfile | grep control | awk '{print $2}')

echo -e "Rec.23.6: cdvr-rec-sjos-a-41 Verify that control is on eth0\t\t\t\t\t---$eth0\_ctr"

localip=$(cat /arroyo/test/setupfile | grep localip | awk '{print $2}')

echo -e "Rec.23.7: cdvr-rec-sjos-a-41 Verify it corresponds to IP address of eth0 in hex\t\t---$localip"

dscp=$(cat /arroyo/test/setupfile | grep http\_dscp | awk '{print $2}')

echo -e "Rec.23.8: cdvr-rec-sjos-a-41 Verify that this is set to 37\t\t\t\t\t---$dscp"

-----end snip

----- snip

c2\_loc=$(cat /arroyo/test/setupfile | grep "service http locate port" | awk '{print $6}')

echo -e "Rec.23.11: cdvr-rec-sjos-a-41 Verify C2 locate port corresponds to eth1\t\t\t---$c2\_loc"

rate\_1g=$(cat /arroyo/test/setupfile | grep "igb adapter" | awk '{print $4}')

echo -e "Rec.23.12: cdvr-rec-sjos-a-41 Verify that 1G driver rate is 975\t\t\t\t---$rate\_1g"

c2\_eth1=$(cat /arroyo/test/setupfile | grep "igb 1" | awk '{print $8}')

if [[ $c2\_eth1 = $eth1\_ip ]]; then

echo -e "Rec.23.13: cdvr-rec-sjos-a-41 Verify C2 locate correspond to eth1 ip\t\t\t\t---PASSED"

else

echo -e "Rec.23.13: cdvr-rec-sjos-a-41 Verify C2 locate correspond to eth1 ip\t\t\t\t---FAILED"

fi

rate\_10g=$(cat /arroyo/test/setupfile | grep "ixgbe adapter" | awk '{print $4}')

echo -e "Rec.23.14: cdvr-rec-sjos-a-41 Verify that 10G driver rate is 9850\t\t\t\t---$rate\_10g"

str\_eth6=$(cat /arroyo/test/setupfile | grep "ixgbe 2" | awk '{print $8}')

echo -e "Rec.23.15: cdvr-rec-sjos-a-41 Verify eth6 is the streaming port with correct IP address\t---$str\_eth6"

tcp=$(cat /arroyo/test/setupfile | grep tcp)

echo -e "Rec.23.16: cdvr-rec-sjos-a-41 Verify tcp traffic is enabled\t\t\t\t\t---$tcp"

----- end snip

----- snip

rec\_ip=$(cat /home/isa/bss/etc/recsvr.conf | grep "RecorderIPAddress" | awk -F"=" '{print $2}')

echo -e "Rec.24.9: cdvr-rec-sjos-a-41 Verify Recorder IP Address is same as eth0\t\t\t---$rec\_ip"

----- end snip

----- snip

echo Verifying parameters on the subnet file

eth1\_net=69.240.99.180

eth1\_sub=$(cat /arroyo/test/SubnetTable | grep $eth1\_net | awk '{print $2}')

if [ -z $eth1\_sub ]

then

echo -e "Rec.27.1: cdvr-rec-sjos-a-41 Verify eth1 network ip\t\t\t\t\t\t---FAILED check subnet file designed 69.240.99.182"

else

echo -e "Rec.27.1: cdvr-rec-sjos-a-41 Verify eth1 network ip\t\t\t\t\t\t---PASSED $eth1\_net"

fi

eth6\_net=10.43.85.47

eth6\_sub=$(cat /arroyo/test/SubnetTable | grep $eth6\_net | awk '{print $2}')

if [ -z $eth6\_sub ]

then

echo -e "Rec.27.2: cdvr-rec-sjos-a-41 Verify eth6 network ip\t\t\t\t\t\t---FAILED check subnet file designed 10.43.85.49"

else

echo -e "Rec.27.2: cdvr-rec-sjos-a-41 Verify eth6 network ip\t\t\t\t\t\t---PASSED $eth6\_net"

fi

----- end snip

----- snip

echo Verifying /etc/sysconfig/network

network=$(cat /etc/sysconfig/network | grep "NETWORK" | awk -F"=" '{print $2}')

echo -e "Rec.30.1: cdvr-rec-sjos-a-41 Verify Network is enabled\t\t\t\t\t---$network"

host=$(cat /etc/sysconfig/network | grep "HOSTNAME" | awk -F"=" '{print $2}')

echo -e "Rec.30.2: cdvr-rec-sjos-a-41 Verify hostname is persistent\t\t\t\t\t---$host"

gw=$(cat /etc/sysconfig/network | grep "GATEWAY=" | awk -F"=" '{print $2}')

echo -e "Rec.30.3: cdvr-rec-sjos-a-41 Verify Gateway\t\t\t\t\t\t\t---$gw"

gw\_dev=$(cat /etc/sysconfig/network | grep "GATEWAYDEV" | awk -F"=" '{print $2}')

echo -e "Rec.30.4: cdvr-rec-sjos-a-41 Verify GatewayDev\t\t\t\t\t\t---$gw\_dev"

nzc=$(cat /etc/sysconfig/network | grep "NOZEROCONF" | awk -F"=" '{print $2}')

echo -e "Rec.30.5: cdvr-rec-sjos-a-41 Verify NoZeroConf\t\t\t\t\t\t---$nzc"

mgmt\_if=$(cat /home/isa/.arroyorc | grep "mgmtif" | awk '{print $2}')

echo -e "Rec.31.5: cdvr-rec-sjos-a-41 Verify mgmtif is set to 0\t\t\t\t\t---$mgmt\_if"

------ end snip

------ snip

while IFS='~' && read IPaddr; do

ping\_result=$(ping -c 2 $IPaddr >& /dev/null) #routing output to null

rc=$? #assigning return code to a variable

if [[ $rc -ne 0 ]] #ping successful if retrun code is 0

then

echo -e "Network.32.$ct $(hostname) Connection to $IPaddr\t\t\t\t\t---FAILED"

else

echo -e "Network.32.$ct $(hostname) Connection to $IPaddr\t\t\t\t\t---PASSED"

fi

......

done

-------- end snip

# cisco.rec.out output - shows failure on eth6 because test is for ip minus 2 addresses. Should be

Verifying parameters on the subnet file

Rec.27.1: cdvr-rec-sjos-a-41 Verify eth1 network ip ---PASSED 69.240.99.180

Rec.27.2: cdvr-rec-sjos-a-41 Verify eth6 network ip ---FAILED check subnet file designed 10.43.85.49