CLI XOS Cheat Sheet

More information can be found in both "Concepts Guide and Command Reference" http://www.extremenetworks.com/services/software-userguide.aspx

ACCOUNTS

(Admin Accounts)
Create account admin <username>
(User Read-Only Accounts)
Create account user <username>

Show accounts

NOTE: By default one of each account is created (Admin/User) with no password. It is recommended that the password is changed on the Admin account and either changed on the User account or deleted.

Configure account admin <cr>
Configure account user <cr>
Delete account user

CLI

Config cli max-sessions 4
Config cli max-failed-logins 2
Disable clipaging (Disables pauses between screens – useful in show commands when logging)
Enable clipaging

SHOW

Show version
Show switch
Show config
Show management
Show port 1 info detail

SHOW <TAB KEY> (Hitting the TAB KEY after part or all of a command will list next available command options)

REMOTE MONITORING - RMON

enable rmon

WEB – GUI MANAGEMENT

Enable web http

PROCESS

top
show process
show process detail
show heartbeat process
show memory
terminate process tftpd graceful msm slot
terminate process tftpd forceful
start process tftpd

SAVE CONFIGURATION

Save configuration (Saves configuration as existing name)
Save config test (Saves configuration as new name)
Ls (Lists all files including configurations on switch)
Use config <Config Name minus the .cfq> (Will use saved configuration after next reboot)

NOTE: ExtremeXOS configurations are XML based. It is recommended that configuration backups are maintained in both XML for restoring and ASCII format for readability.

tftp put 192.168.5.116 vr "VR-Default" primary.cfg XMLBackup-4-27-2009.cfg upload config 192.168.5.116 ASCIIBackup-4-27-2009.cfg vr vr-default

FILE MANAGEMENT – (Software Upgrades – Refer to Virtual Router)

cp primary.cfg tested.cfg (Copies File)
mv tested.cfg eleventhree.cfg (Moves file and renames)
rm eleventhree.cfg (Removes file)
tftp <TFTP Server> -v <vr-default/vr-mgmt> -p -l primary.cfg (Uploads "primary.cfg" to TFTP)
use config <primary/secondary/user created name>

download image <TFTP Server> filename vr <vr-default/vr-mgmt> <primary/secondary> download bootrom <TFTP Server> filename vr <vr-default/vr-mgmt> use image <primary/secondary>

RESET SWITCH TO FACTORY DEFAULTS

unconfig switch all

NOTE: Any policies and/or user created configurations will remain in file system; execute the following to delete them as well:

Rm *.* Rm <*filename.ext*>

VLAN

create vlan blue config vlan blue tag 10 (Configures 802.1q Tag) config vlan blue add port 1-25 <tagged/untagged> (If tagged is specified 802.1q trunking is used) config vlan blue delete port 24 config vlan blue ipaddress 192.168.1.1/24 show vlan (Shows all VLANs) show vlan <vlan name>

SNMP

enable snmp access
enable snmp traps
config snmp add trapreceiver 10.1.1.1 community public
config snmp community readonly public
config snmp delete trapreceiver 10.1.1.1 public/private/all
config snmp sysname robs_switch (Change name of switch)
config snmp syslocation dover (Changes location information)
config snmp syscontact rob (Changes contact information)

SYSLOG

config syslog add <IP Address> vr vr-default local6 config log target syslog <IP Address> vr "VR-Default" local6 severity info enable syslog

show log config show syslog

STP-Edge Protection - Recommended (Port to port in same switch loop protection)

disable stpd s0 auto-bind vlan default disable stpd s0 config stpd s0 mode dot1w enable stpd s0 auto-bind vlan <*ADD EACH VLAN*> (If Uplinks are all Tagged) OR Config stpd sdata add vlan <*ADD EACH VLAN*> ports 1-22 (Do not list uplink ports)

config stpd sdata add vian <*ADD EACH VLAN*> ports 1-22 (Do not list uplink ports) config stpd s0 ports link-type edge <EDGE PORTS ONLY> edge-safeguard enable enable stpd s0

show s0

STP

config stpd s0 add vlan blue port 1-24 config stpd s0 tag 10 config stpd s0 priority 10 config stpd s0 port cost auto enable stpd s0 show stpd s0

LINK AGGREGATION – LAG Groups

Enable sharing 1 group 1-7

LACP – Recommended if both sides support enable sharing 1 grouping 1-2 lacp

show port sharing show lacp

LLDP

enable IIdp ports config IIdp show IIdp

EAPS

CREATE EAPS DOMAIN

create eaps EAPS-Domain1

config eaps EAPS-Domain1 mode < transit/master> (One switch in ring must be master the rest are transit nodes)

config eaps EAPS-Domain1 primary port 23 config eaps EAPS-Domain1 secondary 24

CREATE EAPS CONTROL VLAN

create vlan EAPS-Control1
config vlan EAPS-Control1 tag 10
config vlan EAPS-Control1 add port 23-24 tagged
config eaps EAPS-Domain1 add control vlan EAPS-Control1

ADD PROTECTED VLAN – (All ports traversing ring must be tagged and therefore needed to be protected)

create vlan purple
config vlan purple tag 20
config vlan purple add port 23-24 tagged
config vlan purple add port 1 untagged
config eaps EAPS-Domain1 add protect vlan purple

ENABLE

enable eaps
enable eaps EAPS-Domain1
show eaps
show eaps eaps-domain1

QOS (Recommended for most VOIP deployments)

disable dot1p examination ports all create qosprofile qp5 create qosprofile qp3 create qosprofile qp4 config diffserv examination code-point 31 qosprofile qp3 config diffserv examination code-point 41 qosprofile qp4 config diffserv examination code-point 46 qosprofile qp5 enable diffserv examination ports all

QOS - Options

Create qosprofile QP7
Config qosscheduler weight-round-robin/strict-priority
Config qosprofile QP7 weight (1-15)
Config diffserv examination code-point 46 qosprofile qp7

ROUTING (Required to forward packets across L3 boundaries) enable ipforwarding (Enables routing globally on all VLANs) enable ipforwarding <*VLAN Name*>

STATIC ROUTES

config iproute add 192.168.3.0/24 192.168.1.2 config iproute add default 10.1.1.1

RIP

config rip add vlan <VLAN Name/ALL>
config rip delete vlan <VLAN Name/ALL>
config rip rxmode/txmode v1/v2
enable rip
disable rip

unconfig rip

OSPF

config ospf routerid 1.1.1.1
config ospf add vlan <*VLAN Name>* area 0.0.0.0
enable ospf
create ospf area 1.1.1.1
config ospf area stub/nssa

VRRP

MASTER

configure vlan vlan1 ipaddress 192.168.1.3/24 create vrrp vlan vlan1 vrid 1 configure vrrp vlan vlan1 vrid 1 prioirty 255 configure vrrp vlan vlan1 vrid 1 add 192.168.1.3 enable vrrp

BACKUP

configure vlan vlan1 ipaddress 192.168.1.5/24 create vrrp vlan vlan1 vrid 1 configure vrrp vlan vlan1 vrid 1 prioirty 100 configure vrrp vlan vlan1 vrid 1 add 192.168.1.3 enable vrrp

VIRTUAL ROUTER

INFO: By default ExtremeXOS based switches have two defined VR's (VR-Default & VR-Mgmt) thus separate address tables creating isolation between networks/ports. All of the front ports are members of the VR-Default VR and the out-of-band management port is a member of VR-Mgmt.

The above is important to know considering some commands require specifying the VR because the command or function may default to one or the other VR. For example, downloading software (XOS/Bootroms) default to VR-Mgmt so if not specified the command/function will not work if TFTP server is connected to front ports.

NOTE: User created VR's are only available on certain HW/SW - refer to Concepts Guide.

create virtual-router vr-default config vr vr-default add port 1-24