























VIOS Trusted Firewall

- By default the VIOS level Trusted Firewall will not internally route/bridge the packet unless it has a rule that permits it
- If no rule, the packet is placed on the external network and higher level external router/gateway/firewall to forward or drop packets
- It is common practice to have multiple layers of firewalls







































Warning: ftp is inherently insecure	
ftp (<u>port 21</u>) only between <u>two IP Address only</u>	
\$ genvfilt -v 4 -a P -z 100 -Z 200 -s 9.2.2.2 -d 9.3.3.3 -o any -p 0 -O eq -P 21 -c any	
\$ mkvfilt -u ftp \$ lsvfilt -a bu	destination is port 21 so –O eq –p 21 t
source port is random so -o any -p 0 Filter ID :1	
Filter Action :1	
Source VLANID :100	→ from VLAN 100
Destination VLANID :200	→ to VLAN 200
Source Address :9.2.2.2	→ specific IP
Destination Address :9.3.3.1	→ specific IP
Source Port Operation :any	\rightarrow only port number equal to
Source Port :0	→ Not Applicable
Destination Port Operation :eq	\rightarrow only port number equal to
Destination Port :21	→ telnet see /etc/services
Protocol :6	→ TCP
Only one direction = need 2 nd rule with VLAN & IP Addresses swapped	



















PowerSC Trusted Firewall Cheat Sheet
All commands on the VIOS Install powerscStd.svm • \$ mksvm • \$ lsdev grep svm • \$ rmdev -dev svm Start Firewall
<pre>vlantfw -s to start (-t =stop, -d =display -f =flush) Firewall Rules mkvfilt -u lsvfilt chvfilt chvfilt rmvfilt -n all</pre>
<pre>genvfilt ← Add filter rules Allow everything VLAN to VLAN</pre>
 genvfilt -v 4 -a P -z 100 -Z 200 -s 9.2.2.2 -d 9.3.3.3 Enable telnet (ssh port=22) genvfilt -v 4 -a P -z 100 -Z 200 -o any -p 0 -O eq -P 23 -c tcp genvfilt -v 4 -a P -z 200 -Z 100 -o any -p 0 -O eq -P 23 -c tcp
 Enable ttp (sttp port=115) genvfilt -v 4 -a P -z 100 -Z 200 -s 9.2.2.2 -d 9.3.3.3 -o any -p 0 -O eq -P 21 -c any genvfilt -v 4 -a P -z 200 -Z 100 -s 9.3.3.3 -d 9.2.2.2 -o any -p 0 -O eq -P 21 -c any
 Enable ping everything everywhere genvfilt -v 4 -a P -z 100 -Z 200 -c icmp USE A SCRIPT

