

Layer 2 Configuration Guide HP Procurve Switches



Basic Configuration	
Command example	Description
configure terminal	Enter configuration mode
exit	Leave configuration mode
hostname myswitch	Set host name
time timezone -480	Set time zone offset (minutes from UTC)
vlan 10 name "DATA_VLAN" untagged 1-22 tagged 23-24 ip address 10.2.3.4 255.255.255.0	Enter configuration for VLAN 10 Assign name to VLAN Specify member ports (no tagging) Trunk ports which will carry this VLAN Set IP address and mask
password manager user-name admin	Set localpassword for 'admin' user
interface 1-24 no lacp	Desactivar LACP en las interfaces 1-24
show running-config	Shows current active config
write memory	Save configuration
show config	Shows the current saved configuration

Spanning Tree Protocol	
Command example	Description
spanning-tree protocol-version MSTP	Select Multiple Spanning Tree protocol (needs <i>write mem + reload</i>)
spanning-tree config-name "some-name"	Assign a configuration name (must match in all switches)
spanning-tree config-revision 1	Assign configuration revision (must match in all switches)
spanning-tree instance 1 vlan 10 20	Assign VLANs 10 and 20 to instance 1 of spanning tree
spanning-tree instance 1 priority 0	Assign priority 0 to instance 1 of spanning tree
spanning-tree 1-22 admin-edge-port	Set ports 1-22 as "edge ports" (where end devices are connected)
spanning-tree 1-22 bpdu-protection	Disable ports in range if STP BPDU's are received on those ports

Port Aggregation (LACP)	
Command example	Description
Trunk 23-24 trk1 lacp	Establish an LACP trunk called "trk1" using ports 23 and 24

Authentication	
Command example	Description
no aaa authentication login privileged mode	Do not honor authentication server's privilege level
aaa authentication {console, ssh} login radius local	{Console, SSH} access uses RADIUS first, then local credentials
radius-server dead-time 5	RADIUS server is considered dead for 5 minutes after a failure to respond to an authentication request
radius-server timeout 3	Wait 3 seconds for authentication response
radius-server retransmit 1	Retry once after not receiving a response from RADIUS server
radius-server key verycomplexkey	Set encryption key for communication with RADIUS server
radius-server host 10.1.2.3.4	Add IP address of RADIUS server

Network Management

Command example	Description
ip icmp burst-normal 20	Drop ICMP packets in excess of 20/sec
ip icmp reply-limit	Enable ICMP reply rate limiting
ip ttl 6	Limit IP packet scope to 6 hops
snmp-server location "Building A"	Set SNMP location
snmp-server contact "noc@mydomain"	Set SNMP contact information
snmp-server community "public" manager restricted	Set the SNMP community and allow read-only access to all MIBs
snmp-server host 10.2.3.4 "public" Not-INFO	Send SNMP traps to IP address with community public. Do not send informational-only messages.
snmp-server enable traps authentication	Send traps about unauthorized access attempts
ip authorized-managers 10.2.3.4 255.255.255.0	Stations in subnet are authorized to manage the switch
no telnet-server	Disable Telnet service
ip ssh key-size 1024	Specify size of SSH key
crypto key generate ssh rsa	Generate RSA key for SSH access
ip ssh	Activate SSH service
dhcp-snooping	Enable Protection for rogue DHCP servers
no dhcp-snooping option 82	Do not add relay information
no dhcp-snooping verify mac	Do not verify that DHCP client address matches source MAC address of packet
dhcp-snooping option 82 untrusted-policy keep	Do not drop DHCP client packets that already contain option 82
interface 24 dhcp-snooping trust	DHCP server replies come in through this port
dhcp-snooping vlan 1-4094	Enable DHCP snooping on all VLANs
timesync sntp	Use Simple Network Time Protocol for time synchronization
sntp server 10.2.3.4	Add SNTP server
sntp unicast	Use unicast delivery for SNTP

Operation and Troubleshooting

Command example	Description
show interfaces [brief]	Shows interface status and counters (or just status with <i>brief</i>)
show interfaces config	Show port settings
show interfaces 23	Show detailed status of port 23
show ip	Show IP configuration
show spanning-tree [detail]	Show status of common spanning tree
show spanning-tree instance 1 [detail]	When using MSTP, show status of instance 1
show vlan [VLAN-ID]	Show VLAN status
show lacp	Show status of LACP trunks
show cdp neighbors	Show neighbor devices discovered via CDP
show lldp info remote-device	Show neighbor devices discovered via LLDP
copy tftp flash 10.2.3.4 myfile primary	Transfer configuration file from TFTP server into flash memory