

HP 5920 & 5900 Switch Series

About the HP 5920 & 5900 Configuration Guides

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About the HP 5920 & 5900 configuration guides

The HP 5920 & 5900 configuration guides describe the software features for the HP 5920 & 5900 Series Switches, and guide you through the software configuration procedures. These configuration guides also provide configuration examples to help you apply the software features to different network scenarios.

Configuration guide	Content
<i>Fundamentals Configuration Guide</i>	<p>Describes how to use the command line interface of the switch, log in to and set up the switch, and use the basic management functions. This guide includes:</p> <ul style="list-style-type: none">• Using the CLI• Login overview• Logging in to the CLI• Logging in through SNMP• Controlling user logins• Configuring RBAC• Configuring FTP• Configuring TFTP• Managing the file system• Managing configuration files• ISSU• Device management• Upgrading software• Using emergency shell• License management• Automatic configuration• Tcl
<i>IRF Configuration Guide</i>	<p>Describes the HP proprietary Intelligent Resilient Framework (IRF) technology, which provides data center class availability and scalability. IRF creates a fabric from multiple switches. The switches that form the IRF fabric work in 1:N redundancy and appear as one unit in the network. IRF improves management efficiency and streamlines network topologies. It is suitable for highly reliable enterprise networks and data centers.</p>
<i>Layer 2—LAN Switching Configuration Guide</i>	<p>Covers Layer 2 technologies and features used on a LAN switched network, such as VLAN technology, port isolation, Spanning Tree. You can use these features to divide broadcast domains, remove Layer 2 loops, isolate users within a VLAN and so on. This guide includes:</p> <ul style="list-style-type: none">• Configuring Ethernet interfaces• Configuring loopback and null interfaces• Bulk configuring interfaces• Configuring the MAC address table• Configuring MAC Information• Configuring Ethernet link aggregation• Configuring port isolation• Configuring spanning tree protocols

Configuration guide	Content
	<ul style="list-style-type: none"> • Configuring loop detection • Configuring VLANs • Configuring QinQ • Configuring VLAN mapping • Configuring LLDP • Configuring service loopback groups • Configuring cut-through forwarding
<p><i>Layer 3—IP Services Configuration Guide</i></p>	<p>Describes how to configure ARP, IP addressing, IP performance optimization, IP forwarding basics, IPv6 basics, DHCP, DNS, UDP helper, DHCPv6, tunneling and GRE. This guide includes:</p> <ul style="list-style-type: none"> • Configuring ARP • Configuring gratuitous ARP • Configuring proxy ARP • Configuring ARP snooping • Configuring IP addressing • DHCP overview • Configuring the DHCP server • Configuring the DHCP relay agent • Configuring the DHCP client • Configuring DHCP snooping • Configuring the BOOTP client • Configuring DNS • Configuring DDNS • Basic IP forwarding on the device • Optimizing IP performance • Configuring UDP helper • Configuring basic IPv6 settings • DHCPv6 overview • Configuring the DHCPv6 server • Configuring tunneling • Configuring GRE
<p><i>Layer 3—IP Routing Configuration Guide</i></p>	<p>Covers the routing technologies for IPv4 and IPv6 networks of different sizes, route filtering. This guide includes:</p> <ul style="list-style-type: none"> • IP routing basics • Configuring static routing • Configuring a default route • Configuring RIP • Configuring OSPF • Configuring IS-IS • Configuring BGP • Configuring PBR • Configuring IPv6 static routing • Configuring an IPv6 default route • Configuring RIPng • Configuring OSPFv3

Configuration guide	Content
	<ul style="list-style-type: none"> • Configuring IPv6 IS-IS • Configuring IPv6 PBR • Configuring routing policies
<i>IP Multicast Configuration Guide</i>	<p>Covers Layer 3 IPv4 multicast protocols (IGMP and PIM), Layer 3 IPv6 multicast protocols (MLD and IPv6 PIM), Layer 2 IPv4 multicast protocols (IGMP snooping), and Layer 2 IPv6 multicast protocols (MLD snooping). This guide includes:</p> <ul style="list-style-type: none"> • Multicast overview • Configuring IGMP snooping • Configuring multicast routing and forwarding • Configuring IGMP • Configuring PIM • Configuring MLD snooping • Configuring IPv6 multicast routing and forwarding • Configuring MLD • Configuring IPv6 PIM
<i>MCE Configuration Guide</i>	<p>Describes MCE fundamentals and the configuration on the switch that acts as an MCE.</p>
<i>ACL and QoS Configuration Guide</i>	<p>Describes how to classify traffic with ACLs, and allocate network resources and manage congestions with QoS technologies to improve network performance and network use efficiency. You can use ACLs to help other function modules (such as QoS and IP routing) classify or filter traffic. This configuration guide includes:</p> <ul style="list-style-type: none"> • Configuring ACLs • QoS overview • Configuring a QoS policy • Configuring priority mapping • Configuring traffic policing, GTS, and line rate • Configuring congestion management • Configuring congestion avoidance • Configuring traffic filtering • Configuring priority marking • Configuring nesting • Configuring traffic redirecting • Configuring aggregate CAR • Configuring class-based accounting • Configuring data buffers • Configuring time ranges • Appendix
<i>Security Configuration Guide</i>	<p>Covers security features. The major security features available on the switch include: identity authentication, secure management, and attack protection. This guide includes:</p> <ul style="list-style-type: none"> • Configuring AAA • 802.1X overview • Configuring 802.1X • Configuring MAC authentication

Configuration guide	Content
	<ul style="list-style-type: none"> • Configuring port security • Configuring password control • Managing public keys • Configuring PKI • Configuring SSH • Configuring SSL • Configuring IP source guard • Configuring ARP attack protection • Configuring uRPF • Configuring FIPS • Configuring IPsec • Configuring IKE
<p><i>High Availability Configuration Guide</i></p>	<p>Describes high availability technologies and features available on the switch for failure detection and failover. Failure detection technologies focus on fault detection and isolation. Failover technologies focus on network recovery. This guide includes:</p> <ul style="list-style-type: none"> • Ethernet OAM • CFD • DLDP • VRRP • BFD • Track
<p><i>Network Management and Monitoring Configuration Guide</i></p>	<p>Describes features that help you manage and monitor your network, for example, manage system events, and test network connectivity. This guide includes:</p> <ul style="list-style-type: none"> • Using ping, tracert, and system debugging • Configuring NTP • Configuring Sntp • Configuring the information center • Configuring SNMP • Configuring NQA • Configuring sFlow • Monitoring and maintaining processes • Configuring port mirroring • Configuring traffic mirroring
<p><i>FCoE Configuration Guide</i></p>	<p>Describes the application scenarios, fundamentals, and configuration of FCoE.</p>
<p><i>TRILL Configuration Guide</i></p>	<p>Describes the application scenarios, fundamentals, and configuration of TRILL.</p>
<p><i>EVB Configuration Guide</i></p>	<p>Describes the application scenarios, fundamentals, and configuration of EVB.</p>