HP 3100-48 v2 Switch

About the HP 3100-48 v2 Configuration Guides

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About the HP 3100-48 v2 configuration guides

The HP 3100-48 v2 configuration guides are part of the HP 3100-48 v2 documentation set. They describe the software features for the HP 3100-48 v2 Switch Release 2108P01, 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. The HP 3100-48 v2 documentation set includes 10 configuration guides:

Configuration guide	Content
01 Fundamentals Configuration Guide	Describes how to use the command line interface of the switch, log in to and set up the switch. This guide includes: • Using the CLI • Login overview • Logging in to the CLI • Logging in to the Web interface • Logging in through SNMP • Controlling user logins • Configuring FTP • Configuring TFTP • Managing the file system • Managing configuration files • Upgrading software • Performing ISSU • ISSU upgrade example • Managing the device • Automatic configuration
02 IRF Configuration Guide	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.

Configuration guide	Content
03 Layer 2 – LAN Switching Configuration Guide	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, re-mark VLAN tags, This guide includes: • Ethernet interface • Loopback and null interface • Bulk interface configuration • MAC address table • MAC Information • Ethernet link aggregation • Port isolation • Spanning tree • BPDU tunneling • VLAN • Isolate-user-VLAN • Voice VLAN • GVRP • QinQ • VLAN mapping • LLDP • Service loopback group • MVRP

Configuration guide	Content
04 Layer 3 – IP Services Configuration Guide	Describes how to configure IP addressing, DHCP, IP performance optimization, ARP, DNS, IPv6 basics, DHCPv6,and Tunneling. This guide includes: • ARP • Gratuitous ARP • Proxy ARP • ARP snooping • IP addressing • DHCP overview • DHCP server • DHCP relay agent • DHCP client • DHCP snooping • BOOTP client • IPv4 DNS • IRDP • IP performance optimization • UDP helper • IPv6 basics • DHCPv6 overview • DHCPv6 server • DHCPv6 relay agent • DHCPv6 client • DHCPv6 snooping • IPv6 DNS • Tunneling • GRE
05 Layer 3 – IP Routing Configuration Guide	Covers routing fundamentals and static routing configuration. This guide includes: • IP routing basics • Static routing • IPv6 static routing
06 IP Multicast Configuration Guide	Describes Layer 2 multicast fundamentals and configuration. This guide includes: • Mulitcast overview • IGMP snooping • Multicast VLAN • MLD snooping • IPv6 multicast VLAN

Configuration guide	Content
07 ACL and QoS Configuration Guide	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. This guide includes: • ACL • QoS overview • QoS configuration approaches • Configuring a QoS policy • Priority mapping • Traffic policing, traffic shaping, and rate limit • Congestion management • Congestion avoidance • Traffic filtering • Priority marking • Traffic redirecting • Global CAR • Class-based accounting • Data buffer • Appendix A • Appendix B

Configuration guide	Content
08 Security Configuration Guide	Covers security features. The major security features available on the switch include identity authentication (AAA), access security (802.1X, MAC authentication, portal, and port security), secure management (SSH), and attack protection (IP source guard, ARP attack protection, and URPF). This guide includes: • AAA • 802.1X overview • 802.1X • EAD fast deployment • MAC authentication • Portal • Triple authentication • Port security • User profile • Password control • HABP • Public key • PKI • IPsec • IKE • SSH2.0 • SFTP • SCP • SSL • TCP attack protection • IP source guard • ARP attack protection • ND attack defense • MFF • SAVI • Blacklist • FIPS
09 High Availability Configuration Guide	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: • High availability overview • Ethernet OAM • CFD • DLDP • RRPP • Smart Link • Monitor Link • BFD • Track

Configuration guide	Content
10 Network Management and Monitoring Configuration Guide	Describes features that help you manage and monitor your network, for example, manage system events, assess network performance, synchronize the clock for all devices with the clock in the network, and test network connectivity. This guide includes: • Using ping, tracert, and system debugging • NTP • Information center • SNMP • RMON • Port mirroring • Traffic mirroring • NQA • sFlow • IPC • Cluster management • CWMP • Stack Management
Acronyms	Lists the significant acronyms in the configuration guides.