



A

additional-paths selection [4](#)
address (VRRP) command [8](#)
address-family (BGP) command [10, 12](#)
address-family (EIGRP) command [14](#)
address-family (RIP) command [15](#)
advertise-map (BGP) command [16](#)
advertisement-interval (VRRP) command [18](#)
aggregate-address (BGP) command [20](#)
aggregate-address command [20](#)
area authentication (OSPF) command [23](#)
area default-cost (OSPF) command [25](#)
area filter-list (OSPF) command [26](#)
area filter-list (OSPFv3) command [28](#)
area nssa (OSPF) command [30](#)
area stub (OSPF) command [34](#)
area virtual-link (OSPF) command [36](#)
authentication (HSRP) command [38](#)
authentication (OSPF virtual link) command [38](#)
authentication (VRRP) command [42](#)
authentication-key (OSPF virtual link) command [46](#)
authentication key-chain (EIGRP) command [43](#)
authentication mode (EIGRP) command [45](#)
auto-cost (OSPF) command [47](#)
autonomous-system command [48](#)

B

bestpath (BGP) command [49](#)
bestpath as-path multipath-relax (BGP) command [51](#)

C

capability additional-paths send command [54](#)
clear bgp command [56](#)
clear bgp dampening command [57](#)
clear bgp flap-statistics command [59](#)
clear bgp policy statistics redistribute command [64](#)
clear forwarding inconsistency command [67](#)
clear forwarding route command [66](#)
clear ip adjacency command [68](#)
clear ip arp command [69](#)
clear ip bgp command [71](#)
clear ip bgp dampening command [73](#)
clear ip bgp flap-statistics command [75](#)
clear ip eigrp accounting command [76](#)
clear ip eigrp neighbors command [77](#)
clear ip eigrp redistribution command [79](#)
clear ip eigrp traffic command [80](#)
clear ip interface statistics command [81](#)
clear ip ospf policy statistics command [84](#)
clear ip ospf redistribution command [86](#)
clear ip ospf statistics command [87](#)
clear ip ospf traffic command [88](#)
clear ip rip policy statistics redistribute command [89](#)
clear ip rip statistics command [91](#)
clear ip route command [92](#)
clear ip traffic command [93](#)
clear sockets statistics command [94](#)
clear vrrp command [95](#)
client-to-client reflection command [96](#)
confederation command [97](#)

D

dampening (BGP) command [98](#)
 dead-interval (OSPF virtual link) command [100](#)
 default-information originate (EIGRP) command [102](#)
 default-information originate (OSPF) command [104](#)
 default-information originate (RIP) command [106](#)
 default-metric (EIGRP) command [107](#)
 default-metric (OSPF) command [109](#)
 default-metric (RIP) command [111](#)
 delay minimum (hsrp) command [114](#)
 delay minimum command [113](#)
 distance (EIGRP) command [115](#)
 distance (OSPF) command [117](#)
 distance (RIP) command [118](#)

E

ebgp-multihop command [119](#)
 eigrp graceful-restart command [119](#)
 eigrp log-neighbor-changes command [120](#)
 eigrp log-neighbor-warnings command [121](#)
 eigrp router-id command [122](#)
 eigrp stub command [123](#)

F

feature bgp command [125](#)
 feature eigrp command [126](#)
 feature hsrp command [127](#)
 feature ospf command [128](#)
 feature rip command [129](#)
 feature vrrp command [130](#)
 flush-routes (EIGRP) command [131](#)
 flush-routes (OSPF) command [132](#)

G

graceful-restart (OSPF) command [218](#)

H

hardware ip glean throttle command [133](#)
 hardware ip glean throttle maximum command [134](#)
 hardware ip glean throttle syslog command [135](#)
 hardware ip glean throttle timeout command [137](#)
 hardware ip verify command [133](#)
 hardware profile ucast6 max-limit command [138](#)
 hello-interval (OSPF virtual link) command [138](#)
 hsrp command [139](#)
 hsrp delay command [140](#)

I

ip (HSRP) command [142](#)
 ip address command [144](#)
 ip arp command [146](#)
 ip arp gratuitous command [148](#)
 ip arp syslog-threshold command [149](#)
 ip arp timeout command [150](#)
 ip as-path access-list command [151](#)
 ip authentication key-chain eigrp command [153](#)
 ip authentication mode eigrp command [154](#)
 ip bandwidth eigrp command [156](#)
 ip bandwidth-percent eigrp command [157](#)
 ip community-list command [158](#)
 ip delay eigrp command [161](#)
 ip directed-broadcast command [162](#)
 ip distribute-list eigrp command [164](#)
 ip eigrp shutdown command [165](#)
 ip hello-interval eigrp command [169](#)
 ip hold-time eigrp command [170](#)
 ip load-sharing address command [171](#)
 ip next-hop-self eigrp command [173](#)
 ip offset-list eigrp command [174](#)

ip ospf authentication command [176](#)
 ip ospf authentication-key command [178](#)
 ip ospf cost command [180](#)
 ip ospf dead-interval command [181](#)
 ip ospf hello-interval command [182](#)
 ip ospf message-digest-key command [183](#)
 ip ospf mtu-ignore command [185](#)
 ip ospf network command [186](#)
 ip ospf passive-interface command [187](#)
 ip ospf priority command [188](#)
 ip ospf retransmit-interval command [189](#)
 ip ospf shutdown command [190](#)
 ip ospf transmit-delay command [191](#)
 ip passive-interface eigrp command [192](#)
 ip port-unreachable command [193](#)
 ip prefix-list command [194](#)
 ip prefix-list description command [196](#)
 ip proxy-arp command [197](#)
 ip rip authentication key-chain command [198](#)
 ip rip authentication mode command [199](#)
 ip rip metric-offset command [200](#)
 ip rip offset-list command [201](#)
 ip rip passive-interface command [202](#)
 ip rip poison-reverse command [203](#)
 ip rip route-filter command [204](#)
 ip rip summary-address command [205](#)
 ip route command [206](#)
 ip router eigrp command [208](#)
 ip router ospf area command [209](#)
 ip router ospf multi-area command [210](#)
 ip router rip command [211](#)
 ip split-horizon eigrp command [212](#)
 ip summary-address eigrp command [213](#)
 ip tcp path-mtu-discovery command [215](#)
 ip unreachable command [216](#)

L

log-adjacency-changes (EIGRP) command [217](#)

log-adjacency-changes (OSPF) command [218](#)
 log-neighbor-warnings command [219](#)
 low-memory exempt command [220](#)

M

match as-number command [223](#)
 match as-path command [225](#)
 match community command [227](#)
 match extcommunity command [229](#)
 match interface command [231](#)
 match ip address command [233](#)
 match ip multicast command [235](#)
 match ip next-hop command [237](#)
 match ip next-hop prefix-list command [237](#)
 match ip route-source command [239](#)
 match ip route-source prefix-list command [239](#)
 match mac-list command [221, 243](#)
 match metric command [241](#)
 match route-type command [245](#)
 match tag command [241, 243, 247, 249](#)
 match vlan command [249](#)
 maxas-limit command [253](#)
 maximum-paths (BGP) command [254](#)
 maximum-paths (EIGRP) command [255](#)
 maximum-paths (OSPF) command [257](#)
 maximum-paths (RIP) command [256](#)
 maximum-prefix (BGP) command [258](#)
 max-metric router-lsa (OSPF) command [251](#)
 message-digest-key (OSPF virtual link) command [261](#)
 metric maximum-hops command [262](#)
 metric weights command [263](#)

N

neighbor command [265](#)
 network command [268](#)
 nexthop route-map command [269](#)

nexthop trigger-delay command [272](#)
 no switchport command [273](#)

O

object command [274](#)

P

password (BGP) command [276](#)
 platform ip verify address command [279](#)
 platform ip verify command [278](#)
 platform ip verify length [281](#)
 policy statistics enable (OSPF) command [262](#)
 policy statistics enable (OSPFv3) command [293, 325](#)
 preempt (hsrp) command [284](#)
 preempt command [286](#)
 priority (HSRP) command [288](#)
 priority (VRRP) command [290](#)
 protocol shutdown (OSPF) command [292](#)

R

redistribute (BGP) command [293](#)
 redistribute (EIGRP) command [295](#)
 redistribute (OSPF) command [297](#)
 redistribute (RIP) command [299](#)
 redistribute maximum-prefix (EIGRP) command [301](#)
 redistribute maximum-prefix command [303](#)
 remote-as command [305](#)
 restart bgp command [306](#)
 restart eigrp command [307](#)
 restart ospf command [308](#)
 restart rip command [309](#)
 retransmit-interval (OSPF virtual link) command [310](#)
 route-map command [312](#)
 router bgp command [316](#)
 router eigrp command [318](#)

router-id (EIGRP) command [321](#)
 router-id (OSPF) command [322](#)
 router-id (OSPFv3) command [323](#)
 router ospf command [319](#)
 router rip command [320](#)
 routing-context vrf command [323](#)

S

send-community command [324](#)
 set [329](#)
 set as-path command [325](#)
 set comm-list delete command [327](#)
 set community command [329](#)
 set dampening command [331](#)
 set extcomm-list delete command [335](#)
 set extcommunity command [333](#)
 set forwarding-address command [337](#)
 set ip next-hop peer-address command [339](#)
 set level (IP) command [340](#)
 set local-preference command [342](#)
 set metric command [344](#)
 set metric-type command [346](#)
 set origin command [348](#)
 set path-selection all advertise command [350](#)
 set tag command [351](#)
 set weight command [353](#)
 show bgp command [408](#)
 show bgp community command [409](#)
 show bgp community-list command [410](#)
 show bgp extcommunity command [411](#)
 show bgp extcommunity-list command [412](#)
 show bgp neighbors command [413](#)
 show bgp sessions command [415](#)
 show bgp statistics command [416](#)
 show forwarding command [418](#)
 show forwarding distribution command [420](#)
 show forwarding inconsistency command [421](#)
 show hsrp command [422](#)

- show hsrp delay command [424](#)
- show hsrp summary command [425](#)
- show interface vlan counter command [426](#)
- show ip adjacency command [427](#)
- show ip arp command [429](#)
- show ip bgp all command [433](#)
- show ip bgp community command [436](#)
- show ip bgp community exact-match command [438](#)
- show ip bgp community-list command [439](#)
- show ip bgp dampening command [440](#)
- show ip bgp extcommunity command [441](#)
- show ip bgp extcommunity-list command [442](#)
- show ip bgp filter-list command [443](#)
- show ip bgp flap-statistics command [444](#)
- show ip bgp neighbors command [445](#)
- show ip bgp nexthop command [446](#)
- show ip bgp nexthop-database command [447](#)
- show ip bgp paths command [448](#)
- show ip bgp peer-policy command [449](#)
- show ip bgp peer-session command [450](#)
- show ip bgp peer-template command [451](#)
- show ip bgp prefix-list command [452](#)
- show ip bgp received-paths command [453](#)
- show ip bgp route-map command [454](#)
- show ip bgp summary command [455](#)
- show ip client command [456](#)
- show ip community-list command [457](#)
- show ip eigrp accounting command [459](#)
- show ip eigrp command [458](#)
- show ip eigrp interfaces command [460](#)
- show ip eigrp neighbors command [462](#)
- show ip eigrp route command [464](#)
- show ip eigrp route-map statistics command [466](#)
- show ip eigrp topology command [468](#)
- show ip eigrp traffic command [470](#)
- show ip fib command [471](#)
- show ip fib distribution command [472](#)
- show ip interface command [473](#)
- show ip load-sharing command [474](#)
- show ip mbgp command [431](#)
- show ip ospf border-routers command [476](#)
- show ip ospf database command [477](#)
- show ip ospf interface command [480](#)
- show ip ospf lsa-content-changed-list command [482](#)
- show ip ospf neighbor command [483](#)
- show ip ospf policy statistics area command [485](#)
- show ip ospf policy statistics command [487](#)
- show ip ospf request-list command [489](#)
- show ip ospf retransmission-list command [490](#)
- show ip ospf routes command [491](#)
- show ip ospf statistics command [492](#)
- show ip ospf summary-address command [493](#)
- show ip ospf traffic command [494](#)
- show ip ospf virtual-links command [495](#)
- show ip prefix-list command [496](#)
- show ip process command [497](#)
- show ip rip command [498](#)
- show ip rip interface command [499](#)
- show ip rip neighbor command [500](#)
- show ip rip policy statistics command [501](#)
- show ip rip route command [503](#)
- show ip rip statistics command [504](#)
- show ip route command [505](#)
- show ip static-route command [506](#)
- show ip traffic command [507](#)
- show mac-list command [508](#)
- show routing command [509](#)
- show routing-context command [513](#)
- show routing hash [511](#)
- show routing hash command [514](#)
- show routing memory estimate command [512](#)
- show running-config arp command [517](#)
- show running-config bgp command [519](#)
- show running-config command [515](#)
- show running-config eigrp command [521](#)
- show running-config ospf command [522](#)
- show sockets client command [523](#)
- show sockets connection command [524](#)

show sockets statistics command [525](#)
show startup-config arp command [526](#)
show track command [527](#)
show vlan id counter command [528](#)
show vrrp command [530](#)
shutdown (OSPF) command [357](#)
shutdown (VRRP) command [358](#)
soft-reconfiguration inbound (BGP) command [359](#)
stub command [360](#)
summary-address (OSPF) command [362](#)
suppress-inactive command [364](#)

vrf command [399](#)
vrf context (Layer 2) command [397](#)
vrf context (Layer 3) command [401](#)
vrf member command [402](#)
vrrp command [404](#)
vtp version command [428, 430](#)

T

template BGP command [365](#)
test forwarding distribution [368](#)
test forwarding inconsistency command [369](#)
threshold percentage command [370](#)
threshold weight command [372](#)
timers active-time command [374](#)
timers basic command [375](#)
timers lsa-arrival (OSPF) command [377](#)
timers lsa-group-pacing (OSPF) command [378](#)
timers nsf converge command [380](#)
timers nsf route-hold command [381](#)
timers nsf signal command [383](#)
timers throttle lsa all (OSPF) command [384](#)
timers throttle spf (OSPF) command [386](#)
track (VRRP) command [388](#)
track interface (VRRP) command [391](#)
track interface command [389](#)
track ip route command [393](#)
track list command [394](#)
transmit-delay (OSPF virtual link) command [394](#)

V

validate-update-source command [376](#)