

Policy Basics CLI Reference

CLI commands for configuring and monitoring policy.

Centralized Control Policy Command Hierarchy

Configure on Cisco Catalyst SD-WAN Controllers only.

```
policy
  lists
    color-list list-name
      color color
    prefix-list list-name
      ip-prefix prefix/length
    site-list list-name
      site-id site-id
    tloc-list list-name
      tloc address color color encap encapsulation [preference value weight value]
    vpn-list list-name
      vpn vpn-id

policy
  control-policy policy-name
    default-action action
    sequence number
      match
        route
          color color
          color-list list-name
          omp-tag number
          origin protocol
          originator ip-address
          preference number
          prefix-list list-name
          site-id site-id
          site-list list-name
          tloc address
          tloc-list list-name
          vpn vpn-id
          vpn-list list-name
        tloc
          carrier carrier-name
          color color
          color-list list-name
          domain-id domain-id
          group-id group-id
          omp-tag number
          originator ip-address
          preference number
```

```
                site-id site-id
                site-list list-name
                tloc address
                tloc-list list-name
              action
                reject
                accept
                  export-to (vpn vpn-id | vpn-list list-name)
                  set
                    omp-tag number
                    preference value
                    service service-name (tloc ip-address | tloc-list list-name) [vpn vpn-id]
                    tloc-action action
                    tloc-list list-name
        apply-policy
          site-list list-name control-policy policy-name (in | out)
```

Localized Control Policy Command Hierarchy

Configure on Cisco vEdge devices only.

```
 policy
  lists
    as-path-list list-name
      as-path as-number
    community-list list-name
      community [aa:nn | internet | local-as | no-advertise | no-export]
    ext-community-list list-name
      community [rt (aa:nn | ip-address) | soo (aa:nn | ip-address)]
    prefix-list list-name
      ip-prefix prefix/length
```

```
policy
  route-policy policy-name
    default-action action
    sequence number
      match
        address list-name
        as-path list-name
        community list-name
        ext-community list-name
        local-preference number
        metric number
        next-hop list-name
        omp-tag number
        origin (egp | igp | incomplete)
        ospf-tag number
        peer address
      action
        reject
        accept
          set
            aggregator as-number ip-address
            as-path (exclude | prepend) as-number
            atomic-aggregate
            community value
            local-preference number
            metric number
            metric-type (type1 | type2)
            next-hop ip-address
            omp-tag number
            origin (egp | igp | incomplete)
            originator ip-address
```

```
            ospf-tag number
            weight number
```

```
                    vpn vpn-id
                      router
                        bgp local-as-number
                          address-family ipv4_unicast
                            redistribute (connected | nat | omp | ospf | static) [route-policy policy-name]
                          neighbor address
                            address-family ipv4-unicast
                              route-policy policy-name (in | out)
                        ospf
                          redistribute (bgp | connected | nat | omp | static) route-policy policy-name
                          route-policy policy-name in
```

Centralized Data Policy Command Hierarchy

Configure on Cisco Catalyst SD-WAN Controllers only.

```
policy
  lists
    app-list list-name
      (app applications | app-family application-families)
    data-prefix-list list-name
      ip-prefix prefix/length
    site-list list-name
      site-id site-id
    tloc-list list-name
      tloc ip-address color color encap encapsulation [preference value weight value]
    vpn-list list-name
      vpn vpn-id
```

```
                    policy
                      data-policy policy-name
                        vpn-list list-name
                          default-action action
                          sequence number
                            match
                              app-list list-name
                              destination-data-prefix-list list-name
                              destination-ip prefix/length
                              destination-port number
                              dns (request | response)
                              dns-app-list list-name
                              dscp number
                              icmp-msg
                              packet-length number
                              plp (high | low)
                              protocol number
                              source-data-prefix-list list-name
                              source-ip prefix/length
                              source-port number
                              tcp flag
                            action
                              cflowd
                              count counter-name
                              drop
                              log
                              tcp-optimization
                              accept
                                nat [pool number] [use-vpn-0]
                                redirect-dns (host | ip-address)
                                set
                                  dscp number
                                  forwarding-class class
```

```
                                local-tloc color color [encap encapsulation]
                                local-tloc-list color color [encap encapsulation] [restrict]
                                next-hop ip-address
                                policer policer-name
                                service service-name local [restrict] [vpn vpn-id]
                                service service-name [tloc ip-address | tloc-list list-name] [vpn vpn-id]
                                tloc ip-address color color [encap encapsulation]
                                tloc-list list-name
                                vpn vpn-id
                        vpn-membership policy-name
                          default-action action
                          sequence number
                            match
                              vpn vpn-id
                              vpn-list list-name
                            action
                              (accept | reject)
apply-policy
  site-list list-name data-policy policy-name (all | from-service | from-tunnel)
  site-list list-name vpn-membership policy-name
```

Localized Data Policy Command Hierarchy

For IPv4

Configure on Cisco vEdge devices only.

```
policy
  lists
    prefix-list list-name
      ip-prefix prefix/length
  class-map
    class class-name queue number
  log-frequency number
  mirror mirror-name
    remote-dest ip-address source ip-address
  policer policer-name
    burst bytes
    exceed action
    rate bps
  qos-map map-name
    qos-scheduler scheduler-name
  qos-scheduler scheduler-name
    bandwidth-percent percentage
    buffer-percent percentage
    class class-name
    drops (red-drop | tail-drop)
    scheduling (llq | wrr)
  rewrite-rule rule-name
```

```
policy
  access-list acl-name
    default-action action
    sequence number
      match
        class class-name
        destination-data-prefix-list list-name
        destination-ip prefix/length
        destination-port number
        dscp number
        packet-length number
        plp (high | low)
        protocol number
```

```
  source-data-prefix-list list-name
  source-ip prefix-length
  source-port number
  tcp flag
action
  drop
    count counter-name
    log
  accept
    class class-name
    count counter-name
    log
    mirror mirror-name
    policer policer-name
    set dscp value
```

```
vpn vpn-id
  interface interface-name
    access-list acl-name (in | out)
```

For IPv6

Configure on Cisco vEdge devices only.

```
policy ipv6
  class-map
    class class map map
  mirror mirror-name
    remote-dest ip-address source ip-address
  policer policer-name
    rate bandwidth
    burst bytes
    exceed action
```

```
policy ipv6
  access-list list-name
    sequence number
      match
        match-parameters
      action
        drop
        count counter-name
        log
        accept
          class class-name
          mirror mirror-name
          policer policer-name
    default-action
      (accept | drop)
```

```
vpn vpn-id
  interface interface-name
    ipv6 access-list list-name (in | out)
```

Operational Commands

show running-config