



## PfRv3 Command References

The following tables lists various Cisco IOS commands that are used for PfRv3 along with the command mode from which they are entered.

**Table 1: Configuration Commands for PfRv3**

Command mode	Command name	Description
Interface configuration	<b>bandwidth</b> <i>bandwidth-value</i>	Configures inherited and received bandwidth values for the tunnel interface. The bandwidth value is in kilobits and the valid values are 1 to 10000000.
Border configuration	<b>border</b>	Defines a device as a border.
Domain master controller configuration	<b>branch-to-branch</b>	Disable branch to branch PfR optimization. This is configured on Branch Masters.  <b>Note</b> Configuring the command results in two different behaviors for the different releases. See, PfRv3 Command Reference guide.
Configuration	<b>domain</b> <i>domain name</i>	Configures a top level domain for PfRv3.
Configuration interface	<b>domain</b> <i>domain name</i> <b>path</b> <i>path-name</i>	Configures a path for the domain for PfRv3.
Global configuration	<b>domain</b> <i>domain name</i> <b>path</b> <i>path-name</i> <b>path-id</b> <i>path-id</i>	Configures a path and path-id for a specified domain.
Global configuration	<b>domain path</b> <i>isp-name</i> <b>zero-sla</b>	Configures Zero SLA on tunnel interface for an ISP path.
Master controller configuration	<b>hub</b> <i>ip-address</i>	Configures an IP address for the hub.
Domain class configuration	<b>match</b> { <b>application</b>   <b>dscp</b> }	Specifies applications or DSCP policies to be associated with a class.

Command mode	Command name	Description
Master controller configuration	<b>master</b> <i>ip-address</i>	Configures an IP address for the master controller.
Domain VRF configuration	<b>master {hub   branch   transit}</b>	Defines a device as a master type. You can configure a master device as a hub, border, or a transit.
Domain VRF configuration	<b>master transit</b> <i>pop-id</i>	Configures an ID for the master transit branch.
Domain-class configuration	<b>path-preference</b> <i>path-name</i> <b>fallback</b> <i>path-name</i>	Specifies a path preference for a traffic class policy.
Master controller class type	<b>priority</b> <i>priority-number</i> [ <b>jitter</b>   <b>loss</b>   <b>one-way-delay</b> ] <b>threshold</b> <i>threshold-value</i>	Specifies threshold values for user-defined policies.
Domain configuration	<b>vrf</b> <i>vrf-name</i>	Configures a Virtual Routing and Forwarding (VRF) instance for a domain.

Table 2: Show Commands for PfRv3

Command mode	Command name	Description
Privileged EXEC	<b>show domain</b> <i>domain-name</i> <b>border peering</b>	Displays the border router peering status.
Privileged EXEC	<b>show domain</b> <i>domain-name</i> <b>border pmi   begin prefix-learn</b>	Displays the automatically learned site-prefix status information of the hub-border router.
Privileged EXEC	<b>show domain</b> <i>domain-name</i> <b>border status</b>	Displays the status of the border routers configured at the hub site.
Privileged EXEC	<b>show domain</b> <i>domain-name</i> <b>border site-prefix</b>	Displays the site-prefix status information of the hub-border router.
Privileged EXEC	<b>show domain</b> <i>domain-name</i> <b>border channels</b>	Displays channel information from the hub-border site.
Privileged EXEC	<b>show domain</b> <i>domain-name</i> <b>border parent route</b>	Displays the parent route information of a border channel.
Privileged EXEC	<b>show domain</b> <i>domain-name</i> <b>border channels parent route</b>	Displays the parent route information of a channel.
Privileged EXEC	<b>show domain</b> <i>domain-name</i> <b>master exits</b>	Displays the summary of the external interfaces configured at the hub site.
Privileged EXEC	<b>show domain</b> <i>domain-name</i> <b>master peering</b>	Displays the peering information of the hub-master controller.

Command mode	Command name	Description
Privileged EXEC	<b>show domain</b> <i>domain-name</i> <b>master discovered-sites</b>	Displays branch sites that are remotely connected to the hub site.
Privileged EXEC	<b>show domain</b> <i>domain-name</i> <b>master site-prefix</b>	Displays the site-prefix status information of the hub- master controller.
Privileged EXEC	<b>show platform pfrv3 rp active smart-probe</b>	Displays the PfRv3 smart probe status on a Cisco ASR 1000 Series Aggregation Services Router configured at the hub site.
Privileged EXEC	<b>show platform pfrv3 fp active smart-probe</b>	Displays the PfRv3 active smart probes status of a embedded-service-processor on Cisco ASR 1000 Series Aggregation Services Routers.
Privileged EXEC	<b>show platform hardware qfp active feature pfrv3 client global pfrv3-instance detail</b>	Displays the platform hardware information on a Cisco ASR 1000 Series Aggregation Services Routers.
Privileged EXEC	<b>show flow monitor type performance-monitor</b>	Displays the flow monitor information for passive performance monitoring on the egress interface of WAN.
Privileged EXEC	<b>show domain</b> <i>domain-name</i> <b>master traffic-classes summary</b>	Displays the summary information of all the traffic classes.
Privileged EXEC	<b>show domain</b> <i>domain-name</i> <b>master traffic-classes</b>	Displays the status information of the traffic class for the hub-master controller.
Privileged EXEC	<b>show domain</b> <i>domain-name</i> <b>master traffic-classes policy</b> <i>policy-name</i>	Displays the occurrence of performance issues in a policy traffic class.
Privileged EXEC	<b>show domain</b> <i>domain-name</i> <b>master channels</b>	Displays channel information from the hub site.
Privileged EXEC	<b>show domain</b> <i>domain-name</i> <b>master channels link-name</b> <i>path-name</i>	Displays channel status information and the unreachable threshold crossing alerts (TCA) and on demand export (ODE) instances on a hub-master controller.
Privileged EXEC	<b>show domain</b> <i>domain-name</i> <b>master channels dst-site-id</b> <i>destination-site-id</i>	Displays the details of destination site-ids configured with hub-master controller.
Privileged EXEC	<b>show domain</b> <i>domain-name</i> <b>default master site-capability</b>	Displays the capability information of master controller.

Table 3: Debug Commands for PfRv3

Command mode	Command name	Description
Privileged EXEC	<b>debug platform hardware qfp active feature pfrv3 client</b>	Enables PfRv3 Cisco Quantum Flow Processor (QFP) client debug logging.
Privileged EXEC	<b>debug platform hardware qfp active feature pfrv3 datapath</b>	Enables PfRv3 Cisco Quantum Flow Processor (QFP) data path debug logging.
Privileged EXEC	<b>debug platform hardware qfp active feature pfrv3 pal</b>	Enables debug logging for PfRv3 in the Cisco Quantum Flow Processor (QFP).
Privileged EXEC	<b>debug platform software pfrv3</b>	Enables PfRv3 platform debug commands.