

CCIE Security Version 5 Advanced Technologies Class



Zone Based Policy Firewall Overview

What is Zone Based Policy Firewall?

What are the functional modes and features?



ZBPF Overview

▶What is Zone Based Policy Firewall?

- Stateful IP firewall implementation on IOS routers
- Also known as ZBFW, ZFW, ZBPF, ZPF

►Which traffic can be inspected?

- IPv4 and IPv6 unicast
- Transit traffic (data-plane)
- Router generated/destined traffic (control-plane), with some restrictions



ZBPF Overview

>ZBPF is the successor of CBAC, with advanced features

- Stateful inspection engine (OSI layer 3/4)
- Application Inspection and Control (OSI layer 7)
- Built-in DDoS (TCP intercept in watch mode)
- High Availability with Asymmetric Routing Support
- NAT integration
- VRF-aware (supported on both CE and PE)



ZBPF vs. CBAC

- ►ZBPF allows for more granular control as opposed to CBAC
 - Interfaces are grouped together into zones
 - Firewall policies are unidirectional and based on zone associations
- ZBPF configuration is more modular as compared to CBAC
 - Simplifies design with 3 or more interfaces on the router



ZBPF vs. CBAC

- ►ZBPF works in closed mode by default
 - All inter-zone traffic is dropped



ZBPF Functional Modes

►ZBPF can be implemented in two modes

- Routed mode
- Transparent mode (router behaves like a bridge/switch)



Knowledge is Power!

