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And Cisco  
paraphrased from well-  
known chefs.

## **Ip Routing Protocols Rip Ospf**

The RIP and OSPF are two interior gateway protocols (IGP) that intensively used in computer networks to specify the best routes for data transmission. RIP (Routing Information Protocol) is one of the oldest routing protocols in service, whereas OSPF

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Routing Protocols  
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(Open Shortest Patch  
First) serves as the  
most widely adopted  
IGP for large enterprise  
networks.

## **RIP vs OSPF: What Is the Difference? | FS Community**

Topics covered: The  
most popular routing  
protocols used on  
Internet Protocol (IP)  
networks and  
internetworks,  
including Routing  
Information Protocol

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Routing Protocols  
(RIP), Open Shortest  
Path First (OSPF),  
Border Gateway  
Protocol (BGP), and  
Private Network-  
Network Interface  
(PNNI). The book also  
briefly discusses two  
proprietary Cisco  
protocols, Inter-  
Gateway Routing  
Protocol (IGRP) and  
Enhanced IGRP  
(EIGRP).

**IP Routing  
Protocols: RIP,**

*Page 1/26*

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**OSPF, BGP, PNNI  
and Cisco ...**

Open Shortest Path  
First (OSPF) is a routing  
protocol for Internet  
Protocol (IP) networks.  
It uses a link state  
routing (LSR) algorithm  
and falls into the group  
of interior gateway  
protocols (IGPs),  
operating within a  
single autonomous  
system (AS). It is  
defined as OSPF  
Version 2 in RFC 2328  
(1998) for IPv4.



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## **Open Shortest Path First - Wikipedia**

RIP (Routing Information Protocol) is a forceful protocol type used in local area network and wide area network. RIP (Routing Information Protocol) type is categorized interior gateway protocol within the use of distance vector algorithm. Routing information protocols defined in 1988. It also

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Routing Protocols

has version 2 and  
nowadays both  
versions are in use.

**Type of Routing  
Protocol - RIP - IGRP  
- OSPF - EGP - EIGRP**

...

TCP/IP Routing  
Information Protocol  
(RIP, RIP-2 and RIPng)  
TCP/IP Interior Routing  
Protocols (RIP, OSPF,  
GGP, HELLO, IGRP,  
EIGRP) Modern TCP/IP  
routing architecture  
groups routers into

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Routing Protocols  
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autonomous systems  
(ASes) that are  
independently  
controlled by different  
organizations and  
companies.

## **TCP/IP Interior Routing Protocols (RIP, OSPF, GGP, HELLO ...**

Route  
redistribution—Routes  
learned via any IP  
routing protocol can be  
redistributed into any  
other IP routing

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protocol. At the intradomain level, OSPF can import routes learned via Interior Gateway Routing Protocol (IGRP), Routing Information Protocol (RIP), and Intermediate System-to-Intermediate System (IS-IS).

## **IP Routing: OSPF Configuration Guide - Configuring OSPF**

...

Generally, routing

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protocols is used to learn of available routes that exist on the enterprise network, build routing tables and make routing decisions. The most common routing protocols include RIP, IGRP, EIGRP, OSPF, IS-IS and BGP. Now, let's explain these networking protocols one by one in order to make it clear. 1.

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Routing Protocols  
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**common Network  
Protocols - IGRP,  
EIGRP, OSPF ...**

At the time of this writing, three routing protocols are supported with pfSense® software:  
RIP (Routing Information Protocol)  
BGP (Border Gateway Protocol)  
OSPF (Open Shortest Path First).

**Routing — Routing  
Protocols | pfSense  
Documentation**

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For DV protocols like RIP or IGRP show ip protocols lists as gateway the direct neighbors with at least one prefix advertised. For OSPF that is link state as you have noted things are different as LSAs are flooded and all routers within an area have an identical link state database (in synch).

**OSPF - Show ip protocols - Cisco**

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This example illustrates redistributing Static Route into RIP routing protocol. As per the topology, we have three routers (R1, R2, and R3). R1 and R2 have RIP configured on interface Fast Ethernet 0/0. R1 has a static route to reach the Lo 0 interface (ip address 3.3.3.3/32) of Router R3. This static route is redistributed in RIP



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routing protocol.

## And Cisco **Redistributing Routing Protocols - Cisco**

Routing Information Protocol (RIP) is a dynamic routing protocol which uses hop count as a routing metric to find the best path between the source and the destination network. It is a distance vector routing protocol which has AD value 120 and

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works on the  
application layer of OSI  
model. RIP uses port  
number 520.

## **Routing Information Protocol (RIP) - GeeksforGeeks**

\* OSPF is an open and standards based routing protocol. \*  
OSPF is an Intra-domain routing protocol based on link state routing. \* In OSPF, the entire network is called an

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Autonomous System  
(as it is maintained by  
one entity). The  
Autonomous System is  
divided into different  
areas (sub-networks).

## **A Conceptual Introduction to Static Routing, RIP & OSPF ...**

OSPF and RIP are  
Interior Gateway  
Protocols (IGP) and  
distribute routing  
information within an  
autonomous system,

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Routing Protocols  
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whereas BGP is a  
Exterior Gateway  
Protocol. The routes  
learned via the  
dynamic routing  
protocols are applied  
to the kernel routing  
table.

**Dynamic Routing  
Protocols  
(OSPF/RIP/BGP) |  
Barracuda Campus**  
OSPF, the most popular  
LS IP routing protocol,  
organizes topology  
information using link-

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state advertisements (LSAs) and the link-state database (LSDB). Figure 20-12 represents the ideas. Each LSA is a data structure with some specific information about the network topology—for instance, each router must be described by a separate LSA.

## **Understanding the OSPF Link-State Routing Protocol >**

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**Amazon.com:**  
**Customer reviews:**  
**IP Routing**  
**Protocols: RIP ...**  
protocols, and their

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advantages and disadvantages. It will discuss RIP - Routing Information Protocol, OSPF - Open Shortest Path First protocol, BGP - Border Gateway Protocol, and EIGRP - Enhanced Interior Gateway Routing Protocol.

## **IP Routing Protocols**

IS-IS The reasoning for this is that RIP and BGP ride on top of TCP/UDP whereas EIGRP and

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OSPF both have their own transport protocols 88 and 89. Also, IS-IS is encapsulated directly inside a Layer 2 header i think from memory.

**Does dynamic routing protocols (RIP, EIGRP, OSPF, BGP ...**

Routing Information Protocol (RIP) was originally designed for Xerox PARC Universal Protocol (PUP), and in



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many ways is still for "pups." It was called GWINFO in the Xerox Network Systems (XNS) protocol suite in 1981, and defined in RFC 1058 in 1988. It is easy to configure, and it works very well in small networks.

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