

Cisco EIGRP Configuration

This intermediate EIGRP Configuration training prepares network administrators to configure and manage the routers on an autonomous system running EIGRP to maximize the speed and efficiency of the network. Enhanced Interior Gateway Routing Protocol, or EIGRP, is a powerful, advanced protocol that can be used to automate the routing decisions for a network and guarantee that traffic is always sent by the most efficient route.

[CBT Nuggets course material](#) →

WEEK 1

Fundamentals of EIGRP

159 min.

Intro to EIGRP	1
EIGRP Overview	6
EIGRP Vocabulary (The beginning...)	15
Reported-Advertised BW and Delay Information	18
Backup Routes Concepts	8
Feasible Successor (Backup Route) Lab	10
Unequal Cost Proportional Load Balancing	10
Passive Interface	4
Metric Calculation	13
Summary Routes	7
EIGRP Review	3

EIGRP Address Families

Overview	1
Introduction to EIGRP Address Families	1
Overview EIGRP Configuration Options	14
Configure and Verify EIGRP for IPv4 and IPv6 using Classic Mode	8
Configure and Verify Named Mode EIGRP	24

EIGRP Neighbor Relationships and Authentication

Overview	1
Introduction to EIGRP Relationships and Authentication	1
Neighborship Overview	3
Authentication Overview	11

WEEK 2

155 min.

EIGRP Hands on Lab with Authentication 13

EIGRP Stub Routing

Overview 1

Introduction to EIGRP Stub Routing 1

Going Active in EIGRP 7

Configure and Verify Stub Routing 7

EIGRP Stub Routing Hands-on Lab 11

EIGRP Stub Sites 3

Troubleshoot EIGRP

Overview 1

Introduction to the EIGRP Troubleshooting Labs 1

Base Network Overview 10

IPv4 and IPv6 Troubleshooting Lab 8

IPv4 Walkthrough 19

IPv6 Walk-through 22

Design Networks with EIGRP

Overview 1

Designing EIGRP Networks 1

EIGRP Neighborships 17

EIGRP Metrics 12

The Feasibility Condition 7

Autonomous Systems 6

Stub Routers 7

WEEK 3

16 min.

Summarization Points 5

EIGRP Authentication 6

Summarizing EIGRP Design 1

EIGRP Assessment

Overview 1

EIGRP Assessment 1