Advanced Cisco Networking: What is EIGRP Design?

This Advanced Cisco Networking and EIGRP Design training covers how to design a Cisco network to naturally take advantage of the benefits of EIGRP and enhance its overall speed and stability. Cisco's proprietary Enhanced Interior Gateway Routing Protocol (EIGRP) is a fantastic distance-vector routing protocol that has a huge advantage over a protocol like Open Shortest Path First: it doesn't need a strict topology to do its work. EIGRP works in environments where OSPF doesn't.

CBT Nuggets course material →

STUDY PLAN

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 **107 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

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
Summarization Points	5
EIGRP Authentication	6
Summarizing EIGRP Design	1