

How to Design Advanced Cisco Networks using BGP Routing

This BGP Routing training covers how to design advanced Cisco networks using BGP Routing. Use this Cisco skills course to learn how to configure Cisco routers to run BGP so that your networks can successfully interface with the Internet and stay connected despite complications. For managers with Cisco products, this Cisco training can be used to onboard new network admins, curated into individual or team training plans, or as a Cisco reference resource.

[CBT Nuggets course material](#) →

WEEK 1

Break Through BGP Basics with Address Families 155 min.

Beginning with BGP	1
The Point of BGP	9
Setting Up BGP	21
eBGP vs iBGP	9
Next-Hop Self	7
The BGP Process	6
Update-Source Interface	11
Address Families	8
Summarizing BGP Basics	1

Solve BGP Scalability Issues

Overview	1
Introducing BGP's Scale Issues	1
The Multi-Hop Scenario	18
Route Reflectors: Rule 1	3
Examine Route Reflector Rule 1	11
Route Reflectors: Rule 2	2
Examine Route Reflector Rule 2	10
Route Reflectors: Rule 3	2
Examine Route Reflectors Rule 3	9
Exploring Confederations	5
Deploy and Trace a Confederation	20

WEEK 2

128 min.

Summarizing BGP Scaling Solutions	1
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Understand the BGP Best Path Algorithm

Overview	1
Introducing BGP's Decision Making Process	1
Weight	14
Local Preference	12
Originator and AIGP	10
AS Path	3
Origin Code and MED	12
eBGP vs iBGP	9
The Remaining Tiebreakers	5
Summarizing the BGP Best Path Algorithm	1

Design Networks with BGP

Overview	1
Introducing BGP Design	1
Load Balancing Outbound Connections - Single ISP	6
Load Sharing Outbound Connections - Multihomed ISPs	4
Manipulate Inbound Connections - Single ISP	5
Manipulate Inbound Connections - Multihomed ISPs	4
BGP Communities	8
Route Reflector Design	19
Validating Your Design with Looking Glass	9
Summarizing BGP Design	1