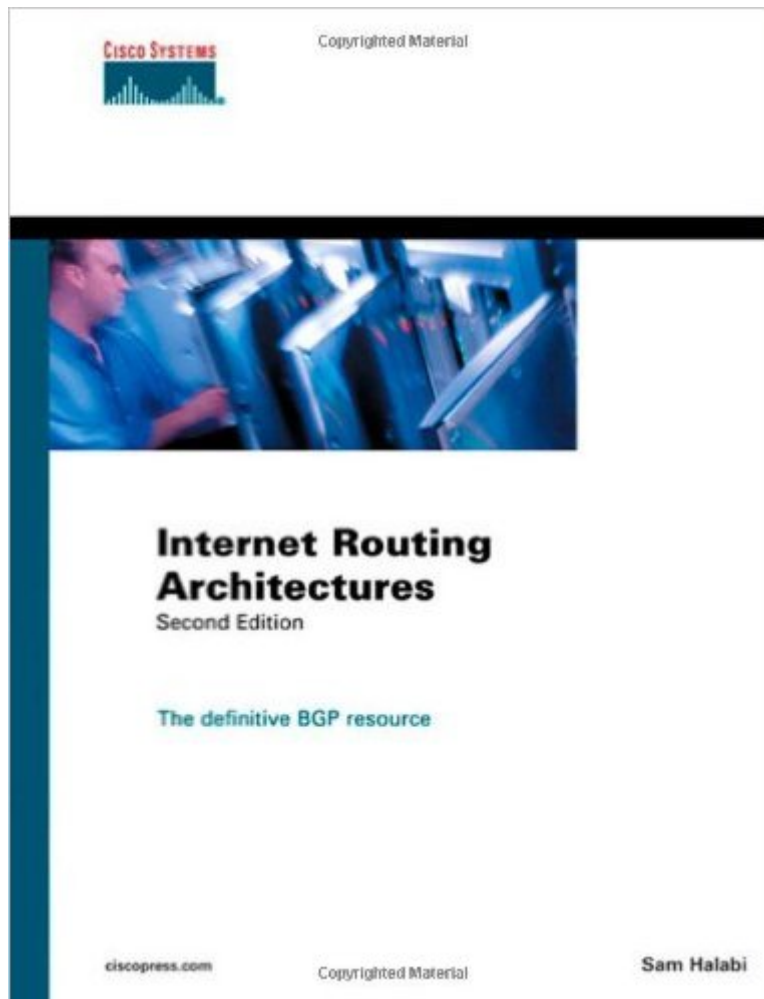The book was found

# Internet Routing Architectures (2nd Edition)

## Synopsis

The industry's leading resource for Internet routing solutions and scenarios   Explore the functions, attributes, and applications of BGP-4, the de facto interdomain routing protocol, through practical scenarios and configuration examples Learn the contemporary Internet structure and understand how to evaluate a service provider in dealing with routing and connectivity issues Master the addressing techniques--including Classless Interdomain Routing (CIDR)--that are demanded today to facilitate the Internet's rapid and continuing growth Develop optimal routing policies--redundancy, traffic balancing, symmetry, and stability--for your network Learn how to seamlessly integrate your intradomain and interdomain routing and manage large and growing autonomous systems     Internet Routing Architectures, Second Edition, explores the ins and outs of interdomain routing network designs with emphasis on BGP-4 (Border Gateway Protocol Version 4)--the de facto interdomain routing protocol.  Using a practical, example-oriented approach, this comprehensive resource provides you with real solutions for ISP connectivity issues. You will learn how to integrate your network on the global Internet and discover how to build large-scale autonomous systems. You will also learn to control expansion of interior routing protocols using BGP-4, design sound and stable networks, configure the required policies using Cisco IOS Software, and explore routing practices and rules on the Internet.  Â  157870233X020206

## Book Information

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## Customer Reviews

I have always felt that I am part of the small minority that just does not see the beauty of this book if

studying for the CCIE. I have, for years, read other's comments on the how Halabi's "Internet Routing Arch" is a `must have', yet I still have not found a similar reason why. While I do feel that the book does (probably) the best job at explaining BGP and how to implement BGP in a Cisco-centric world, I have not discovered the value for the CCIE. I would much rather spend my time with CiscoPress's "Routing TCP/IP" Volume 2, by Jeff Doyle and Jennifer DeHaven Carroll than this book.One item of concern, there is a noticable amount of trivial errors in this book that can lead to disaster if implemented incorrectly. For example:Page 106 - "...any traffic that has an origin OR destination that does not belong to the local AS." This clearly should be an AND, not OR.Page 315 - "You can also specify a PREFIX list..." - I believe this should be a filter list, not a prefix list.And then there are places where the book is too opinionated - for example - page 206 "Many operators choose to filter dynamically learned defaults to avoid situations in which traffic ends up where it is not supposed to be." I do not feel this is true, and can think of multiple times when not filtering the advertised default route may just end up being the worst option. In fact, I do not feel either configuration is the right configuration to admit or condone, as the wrong configuration can have disastrous effects.I still have to give this book 4 stars - simply because of it's utilitarian value and overwhelming sense of loyalty given to this book by others. But I don't reach for this book too often.I give this book 4 pings out of 5:!!!.!

If you are looking for a book describing all the things which need to be taken care of when planning and implementing BGP then you will appreciate this book.Mr Halabi provides a lot of example set-ups which are, for the people working in the Internet networking industry, very familiar. The examples range from a typical customer who wants BGP connectivity to multi-customer and international backbone configurations.Aside from the many examples, which serve the text well in getting the material understood, Mr Halabi takes care to describe the fundamentals associated with it as well.However, this is not a book for the faint at heart. Prior knowledge of IP and routing will be useful in order to appreciate this book.Of course, this books focuses on the Cisco IOS architecture syntax, but the explanations and details will suit anyone willing to learn in-depth about BGP.The other bible is [Juniper's] John W. Stewart's book: BGP4 Inter-Domain Routing in the Internet. Also a must-read. Having both books will tell you everything you need.

Of all the books on networking I have ever read, this is in a league of its own. I have never seen such a complicated topic explained so well. Other authors who write networking books of this level, should speak to this guy on "how to write a book". It manages to join the dots from A to B to C

....etc. and never miss a thing. If you ever hear the word BGP mentioned at in your work place or someone says they are deploying it. buy this book and glue it to your hand. After Reading this book, you could sucessfully deploy a BGP network, no problems. In my opinion, lots of books out there on this level of networking aren't worth the paper there printed on.For GOD sake, other authors wake up and pay attention.

This book is a very well written and with no errors. The first 10 chapters are more theory and expanations. Chappters 11 and 12 include many mini labs with diagrams and configurations covering all you have to know about BGP. It is a great book for CCIE preparation concerning BGP. You can practice all the mini labs with 4-5 routers and serial connections (and ethernet or loopbacks). If you preparing for CCIE you should not attempt without conbining this book with the Solie Book (CCIE: Practical Studies - over 40 mini labs and 5 complete labs) and IPExpert CCIE workbook (Expensive but is Great !!! Includes many mini labs and over a dozen complete CCIE labs with solutions - ...

...the first edition was the standard-bearer for information on BGP (so much so that everyone I know called it "The BGP Book"). After briefly reviewing the second edition I know what they meant. This book covers EVERYTHING you ever wanted to know about routing at the ISP level. Lots of technical information, and the content is significantly more thorough and detailed than other Cisco books. A must have...

In my working activities I happen to meet sometimes, but not too frequently, issues about IP routing architectures. Needing to consolidate my background about the subject, I tried to read some publications, that, in spite of editorial reviews, did not satisfy me, being lost about TCP/IP details more than routing issues. This book help me to fix this cultural flaws and represented the definite resource about routing. Maybe I have not been able to fully appreciate it because I am not a network engineer or administrator, and some chapters become too detailed for people having general, and not specialistic, requirements. But I must agree that reading this book made me to know something I did not before, at a sufficient level of detail. That is what I need to state that a book is worth its price.

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