



Cisco IOS XR Fundamentals

Mobeen Tahir, Mark Ghattas, Dawit Birhanu, Syed Natif Nawaz

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Cisco IOS XR Fundamentals is a systematic, authoritative guide to configuring routers with Cisco IOS® XR, the next-generation flagship Cisco® Internet operating system.

In this book, a team of Cisco experts brings together quick, authoritative, and example-rich reference information for all the commands most frequently used to configure and troubleshoot Cisco IOS XR-based routers in both service provider and enterprise environments.

The authors walk you through the details of the Cisco IOS XR architecture and explain commands in the new Cisco IOS XR CLI wherever required. They present concise explanations of service provider requirements and internetwork theory, backed by proven sample configurations for IOS XR services, MPLS, multicast, system management, system security, routing, and interfaces.

Cisco IOS XR Fundamentals is an indispensable resource for designing, implementing, troubleshooting, administering, or selling networks containing Cisco IOS XR–supported routers. This is the only Cisco IOS XR book that:

- Clearly explains how Cisco IOS XR meets the emerging requirements of both current and future networks
- Gives network professionals extensive information for simplifying migration and taking full advantage of Cisco IOS XR’s new power
- Presents detailed, tested configuration examples that network professionals can apply in their own networks
- Walks through using new Cisco IOS XR features and the In-Service Software Upgrade (ISSU) process to minimize downtime and cost

Mobeen Tahir, CCIE® No. 12643 (R&S, SP), is a Cisco network consulting engineer with more than a decade of experience in designing and deploying service provider networks. He currently works for the WWSP practice team, which provides consulting services to Cisco NGN customers.

Mark Ghattas, CCIE No. 19706 (Service Provider), is a solution architect at Cisco and has been in the networking industry for more than 15 years. He focuses on IOS XR–based platforms for service providers and currently manages the World Wide Service Provider Practice team in Advanced Services.

Dawit Birhanu, CCIE No. 5602, is a technical leader at Cisco. He assists global service providers in deploying new NGN products and technologies. He specializes in IOS XR–based platforms, QoS, MPLS, and BGP.

Syed Natif Nawaz, CCIE No. 8825 (R&S, SP), has more than 10 years' experience in providing networking design, deployment, and escalation assistance to service provider customers. He is currently the IOS XE software development manager at Cisco, where he works on customer-focused software qualification, certification, and deployment; feature integration; release processes; and other software quality initiatives.

- Use Cisco IOS XR to deliver superior scalability, availability, security, and service flexibility
- Understand the Cisco IOS XR distributed, modular architecture

- Design, implement, and troubleshoot networks containing Cisco IOS XR–supported routers
- Configure Cisco IOS XR routing, including RIP, IS-IS, OSPF, and EIGRP
- Learn BGP implementation details specific to Cisco IOS XR and using RPL to influence policies
- Manage IP addresses and Cisco IOS XR services
- Secure Cisco IOS XR using standard and extended ACLs, prefix lists, and uRPF
- Master all facets of MPLS configuration, including LDP, L3VPN, and TE
- Configure PIM, IGMP, and static RP multicast
- Optimize networks using advanced Cisco IOS XR features, including secure domain routers
- Learn building blocks of Multishelf, and understand configurations and migration techniques

This book is part of the Cisco Press® Fundamentals Series. Books in this series introduce networking professionals to new networking technologies, covering network topologies, sample deployment concepts, protocols, and management techniques.

Category: Networking: Routing and Switching

Covers: Cisco IOS XR

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Gregory Proctor:

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Philip Newman:

What is your hobby? Have you heard that question when you got pupils? We believe that that concern was given by teacher with their students. Many kinds of hobby, Everyone has different hobby. Therefore you know that little person similar to reading or as reading through become their hobby. You need to know that reading is very important as well as book as to be the matter. Book is important thing to increase you knowledge, except your own personal teacher or lecturer. You will find good news or update concerning something by book. Different categories of books that can you go onto be your object. One of them is this

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