

# **IBM z/OS V1R12 Communications Server TCP/IP Implementation: Volume 2 Standard Applications**

Provides information about z/OS Communications  
Server TCP/IP standard applications

Discusses how to take advantage of TCP/IP  
standard applications for your needs

Includes TCP/IP application  
implementation examples



Mike Ebbers  
Rama Ayyar  
Octavio L. Ferreira  
Gazi Karakus  
Yukihiko Miyamoto  
Joel Porterie  
Andi Wijaya

# **Redbooks**

# Zos V1r12 0 Communications Server Ip Configuration Guide

**Rufus P. Credle Jr., Uma Maheswari  
Kumaraguru, Gilson Cesar de  
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Senfleben, Rutsakon Techo, Maulide  
Xavier, IBM Redbooks**

## **Zos V1r12 0 Communications Server Ip Configuration Guide:**

IBM z/OS V1R12 Communications Server TCP/IP Implementation: Volume 4 Security and Policy-Based Networking Mike Ebbers, Rama Ayyar, Octavio L. Ferreira, Gazi Karakus, Yukihiro Miyamoto, Joel Porterie, Andi Wijaya, IBM Redbooks, 2011-07-27

For more than 40 years IBM mainframes have supported an extraordinary portion of the world's computing work providing centralized corporate databases and mission critical enterprise wide applications The IBM System z provides world class and state of the art support for the TCP/IP Internet protocol suite TCP/IP is a large and evolving collection of communication protocols managed by the Internet Engineering Task Force IETF an open volunteer organization Because of its openness the TCP/IP protocol suite has become the foundation for the set of technologies that form the basis of the Internet The convergence of IBM mainframe capabilities with Internet technology connectivity and standards particularly TCP/IP is dramatically changing the face of information technology and driving requirements for ever more secure scalable and highly available mainframe TCP/IP implementations The IBM z/OS Communications Server TCP/IP Implementation series provides understandable step by step guidance about how to enable the most commonly used and important functions of z/OS Communications Server TCP/IP This IBM Redbooks publication explains how to set up security for the z/OS networking environment Network security requirements have become more stringent and complex Because many transactions come from unknown users and untrusted networks careful attention must be given to host and user authentication data privacy data origin authentication and data integrity We also include helpful tutorial information in the appendixes of this book because security technologies can be quite complex For more specific information about z/OS Communications Server base functions standard applications and high availability refer to the other volumes in the series **IBM z/OS V1R12**

**Communications Server TCP/IP Implementation: Volume 1 Base Functions, Connectivity, and Routing** Mike Ebbers, Rama Ayyar, Octavio L. Ferreira, Gazi Karakus, Yukihiro Miyamoto, Joel Porterie, Andi Wijaya, IBM Redbooks, 2012-11-06

For more than 40 years IBM mainframes have supported an extraordinary portion of the world's computing work providing centralized corporate databases and mission critical enterprise wide applications The IBM System z the latest generation of the IBM distinguished family of mainframe systems has come a long way from its IBM System 360 heritage Likewise its IBM z/OS operating system is far superior to its predecessors in providing among many other capabilities world class and state of the art support for the TCP/IP Internet protocol suite TCP/IP is a large and evolving collection of communication protocols managed by the Internet Engineering Task Force IETF an open volunteer organization Because of its openness the TCP/IP protocol suite has become the foundation for the set of technologies that form the basis of the Internet The convergence of IBM mainframe capabilities with Internet technology connectivity and standards particularly TCP/IP is dramatically changing the face of information technology and driving requirements for even more secure scalable and highly available mainframe TCP/IP implementations The z/OS Communications Server TCP/IP Implementation series provides understandable step by

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**IBM z/OS V1R12 Communications Server TCP/IP Implementation: Volume 3 High Availability, Scalability, and Performance** Mike Ebberts, Rama Ayyar, Octavio L. Ferreira, Gazi Karakus, Yukihiko Miyamoto, Joel Porterie, Andi Wijaya, IBM Redbooks, 2011-05-04. For more than 40 years IBM mainframes have supported an extraordinary portion of the world's computing work providing centralized corporate databases and mission critical enterprise wide applications. The IBM System z the latest generation of the IBM distinguished family of mainframe systems has come a long way from its IBM System 360 heritage. Likewise its IBM z OS operating system is far superior to its predecessors providing among many other capabilities world class state of the art support for the TCP/IP Internet protocol suite. TCP/IP is a large and evolving collection of communication protocols managed by the Internet Engineering Task Force (IETF) an open volunteer organization. Because of its openness the TCP/IP protocol suite has become the foundation for the set of technologies that form the basis of the Internet. The convergence of IBM mainframe capabilities with Internet technology connectivity and standards particularly TCP/IP is dramatically changing the face of information technology and driving requirements for ever more secure, scalable and highly available mainframe TCP/IP implementations. In this IBM Redbooks publication we begin with a discussion of Virtual IP Addressing (VIPA) a TCP/IP high availability approach that was introduced by the z OS Communications Server. We then show how to use VIPA for high availability both with and without a dynamic routing protocol. We also discuss a number of different workload balancing approaches that you can use with the z OS Communications Server. We also explain the optimized Sysplex Distributor intra sysplex load balancing. This function represents improved multitier application support using optimized local connections together with weight values from extended Workload Manager (WLM) interfaces. Finally we highlight the most important tuning parameters and suggest parameter values that we observed to maximize performance in many client installations.

**IBM z/OS V1R13 Communications Server TCP/IP Implementation: Volume 2 Standard Applications**

Mike Ebberts, Rama Ayyar, Octavio L. Ferreira, Yohko Ojima, Gilson Cesar de Oliveira, Mike Riches, Maulide Xavier, IBM Redbooks, 2011-12-27. For more than 40 years IBM mainframes have supported an extraordinary portion of the world's computing work providing centralized corporate databases and mission critical enterprise wide applications. The IBM System z the latest generation of the IBM distinguished family of mainframe systems has come a long way from its IBM System 360 heritage. Likewise its IBM z OS operating system is far superior to its predecessors providing among many other capabilities world class state of the art support for the TCP/IP Internet protocol suite. TCP/IP is a large and evolving collection of communication protocols managed by the Internet Engineering Task Force (IETF) an open volunteer organization. Because

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### **IMS Integration and Connectivity Across the Enterprise**

Paolo Bruni, Jenny Hung, Knut Kubein, Evgeni Liakhovich, Geoff Nicholls, Gary Wicks, IBM Redbooks, 2014-04-08. This IBM Redbooks publication gives a broad understanding of IBM IMSTM integration and connectivity solutions to access applications and data stores across your enterprise architecture. As an application developer, architect, systems integrator or systems programmer, there is important information that is available in this book that pertains to your responsibilities to continue to include the proven performance, data integrity and workload distribution that is available from IMS in selected projects that are related to your entire enterprise. This book updates and adds to the information in the following IBM Redbooks publications: IMS e-business Connectors: A Guide to IMS Connectivity (SG24-6514), IMS Connectivity in an On-Demand Environment: A Practical Guide to IMS Connectivity (SG24-6794), Powering SOA Solutions with IMS (SG24-7662), IBM IMS Version 12 Technical Overview (SG24-7972), IMS 12: The IMS Catalog (REDP-4812), Rethink Your Mainframe Applications: Reasons and Approaches for Extension, Transformation and Growth (REDP-4938).

### **Security Functions of IBM DB2 10 for z/OS**

Paolo Bruni, Marcelo Antonelli, Hyun Baek, Rick Butler, Ernie Mancill, IBM Redbooks, 2011-09-14. IBM DB2 9 and 10 for z

OS have added functions in the areas of security regulatory compliance and audit capability that provide solutions for the most compelling requirements DB2 10 enhances the DB2 9 role based security with additional administrative and other finer grained authorities and privileges This authority granularity helps separate administration and data access that provide only the minimum appropriate authority The authority profiles provide better separation of duties while limiting or eliminating blanket authority over all aspects of a table and its data In addition DB2 10 provides a set of criteria for auditing for the possible abuse and overlapping of authorities within a system In DB2 10 improvements to security and regulatory compliance focus on data retention and protecting sensitive data from privileged users and administrators Improvements also help to separate security administration from database administration DB2 10 also lets administrators enable security on a particular column or particular row in the database complementing the privilege model This IBM Redbooks publication provides a detailed description of DB2 10 security functions from the implementation and usage point of view It is intended to be used by database audit and security administrators

*IBM z/OS V2R1 Communications Server TCP/IP Implementation Volume 2: Standard Applications* Rufus P. Credle Jr.,Uma Maheswari Kumaraguru,Gilson Cesar de Oliveira,Micky Reichenberg,Georg Senfleben,Rutsakon Techo,Maulide Xavier,IBM Redbooks,2013-12-17 For more than 40 years IBM mainframes have supported an extraordinary portion of the worlds computing work providing centralized corporate databases and mission critical enterprise wide applications IBM System z the latest generation of the IBM distinguished family of mainframe systems has come a long way from its IBM System 360 heritage Likewise its IBM z OS operating system is far superior to its predecessors in providing among many other capabilities world class state of the art support for the TCP IP Internet protocol suite TCP IP is a large and evolving collection of communication protocols managed by the Internet Engineering Task Force IETF an open volunteer organization Because of its openness the TCP IP protocol suite has become the foundation for the set of technologies that form the basis of the Internet The convergence of IBM mainframe capabilities with Internet technology connectivity and standards particularly TCP IP is dramatically changing the face of information technology and driving requirements for ever more secure scalable and highly available mainframe TCP IP implementations The IBM z OS Communications Server TCP IP Implementation series provides understandable step by step guidance for enabling the most commonly used and important functions of z OS Communications Server TCP IP This IBM Redbooks publication provides useful implementation scenarios and configuration recommendations for many of the TCP IP standard applications that z OS Communications Server supports

**Communications Server for Z/OS V1R2 TCP/IP Implementation Guide: Base and TN3270 configuration** Adolfo Rodriguez,2002

**IBM z/OS V2R2 Communications Server TCP/IP Implementation: Volume 4 Security and Policy-Based Networking** Bill White,Octavio Ferreira,Teresa Missawa,Teddy Sudewo,IBM Redbooks,2017-03-21 For more than 50 years IBM mainframes have supported an extraordinary portion of the world s computing work providing centralized corporate databases and mission critical enterprise wide applications IBM z Systems

the latest generation of the IBM distinguished family of mainframe systems has come a long way from its IBM System 360 heritage Likewise its IBM z OS operating system is far superior to its predecessors in providing among many other capabilities world class and state of the art support for the TCP IP Internet protocol suite TCP IP is a large and evolving collection of communication protocols managed by the Internet Engineering Task Force IETF an open volunteer organization Because of its openness the TCP IP protocol suite has become the foundation for the set of technologies that form the basis of the Internet The convergence of IBM mainframe capabilities with Internet technology connectivity and standards particularly TCP IP is dramatically changing the face of information technology and driving requirements for ever more secure scalable and highly available mainframe TCP IP implementations The IBM z OS Communications Server TCP IP Implementation series provides understandable step by step guidance about how to enable the most commonly used and important functions of z OS Communications Server TCP IP This IBM Redbooks publication is for people who install and support z OS Communications Server It explains how to set up security for your z OS networking environment With the advent of TCP IP and the Internet network security requirements have become more stringent and complex Because many transactions are from unknown users and untrusted networks such as the Internet careful attention must be given to host and user authentication data privacy data origin authentication and data integrity Also because security technologies are complex and can be confusing we include helpful tutorial information in the appendixes of this book For more information about z OS Communications Server base functions standard applications and high availability see the other following volumes in the series IBM z OS V2R2 Communications Server TCP IP Implementation Volume 1 Base Functions Connectivity and Routing SG24 8360 IBM z OS V2R2 Communications Server TCP IP Implementation Volume 2 Standard Applications SG24 8361 IBM z OS V2R2 Communications Server TCP IP Implementation Volume 3 High Availability Scalability and Performance SG24 8362 This book does not duplicate the information in these publications Instead it complements those publications with practical implementation scenarios that might be useful in your environment For more information about at what level a specific function was introduced see z OS Communications Server New Function Summary GC31 8771 **IBM Z/OS V1R12**

**Communications Server TCP/IP Implementation** Mike Ebberts,Rama Ayyar,Octavio L. Ferreira,Gazi Karakus,Yukihiko Miyamoto,Joel Porterie,Andi Wijaya,2011 For more than 40 years IBM mainframes have supported an extraordinary portion of the world s computing work providing centralized corporate databases and mission critical enterprise wide applications The IBM System z provides world class and state of the art support for the TCP IP Internet protocol suite TCP IP is a large and evolving collection of communication protocols managed by the Internet Engineering Task Force IETF an open volunteer organization Because of its openness the TCP IP protocol suite has become the foundation for the set of technologies that form the basis of the Internet The convergence of IBM mainframe capabilities with Internet technology connectivity and standards particularly TCP IP is dramatically changing the face of information technology and driving requirements for ever

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**IBM Z/OS V1R12 Communications Server TCP/IP Implementation** Mike Ebberts,Rama Ayyar,Octavio L. Ferreira,Gazi Karakus,Yukihiko Miyamoto,Joel Porterie,Andi Wijaya,2011 For more than 40 years IBM mainframes have supported an extraordinary portion of the world s computing work providing centralized corporate databases and mission critical enterprise wide applications The IBM System z provides world class and state of the art support for the TCP IP Internet protocol suite TCP IP is a large and evolving collection of communication protocols managed by the Internet Engineering Task Force IETF an open volunteer organization Because of its openness the TCP IP protocol suite has become the foundation for the set of technologies that form the basis of the Internet The convergence of IBM mainframe capabilities with Internet technology connectivity and standards particularly TCP IP is dramatically changing the face of information technology and driving requirements for ever more secure scalable and highly available mainframe TCP IP implementations The IBM z OS Communications Server TCP IP Implementation series provides understandable step by step guidance about how to enable the most commonly used and important functions of z OS Communications Server TCP IP This IBM Redbooks publication explains how to set up security for the z OS networking environment Network security requirements have become more stringent and complex Because many transactions come from unknown users and untrusted networks careful attention must be given to host and user authentication data privacy data origin authentication and data integrity We also include helpful tutorial information in the appendixes of this book because security technologies can be quite complex

[Communications Server for z/OS V1R2 TCP/IP Implementation Guide, Volume 5](#) IBM. Redbooks,2002 *Communications Server for Z/OS V1R2 TCP/IP Implementation Guide: Security*,19?? *Communications Server for Z/OS V1R2 TCP/IP Implementation Guide* Adolfo Rodriguez,International Business Machines Corporation. International Technical Support Organization,2002

**IBM Z/OS V1R12 Communications Server TCP/IP Implementation** Mike Ebberts,Rama Ayyar,Octavio Ferreira,Gazi Karakus,Yukihiko Miyamoto,Joel Porterie,Andi Wijaya,2011 For more than 40 years IBM mainframes have supported an extraordinary portion of the world s computing work providing centralized corporate databases and mission critical enterprise wide applications The IBM System z the latest generation of the IBM distinguished family of mainframe systems has come a long way from its IBM System 360 heritage Likewise its IBM z OS operating system is far superior to its predecessors in providing among many other capabilities world



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**Communications Server for Z/OS V1R2 TCP/IP Implementation Guide, Volume 4**  
IBM. Redbooks,2002

**Communications Server for Z/OS V1R2 TCP/IP Implementation Guide, Volume 7** IBM. Redbooks,2002

**IBM Z/OS V1R12 Communications Server TCP/IP Implementation, Volume 2, Standard Applications** Mike Ebberts,2011

Communications Server for Z/OS V1R2 TCP/IP Implementation Guide: Policy and network management ,2002

**Communications Server for Z/OS V1R2 TCP/IP Implementation Guide: Availability, scalability, and performance** ,2002

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### **Table of Contents Zos V1r12 0 Communications Server Ip Configuration Guide**

1. Understanding the eBook Zos V1r12 0 Communications Server Ip Configuration Guide
  - The Rise of Digital Reading Zos V1r12 0 Communications Server Ip Configuration Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Zos V1r12 0 Communications Server Ip Configuration Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Zos V1r12 0 Communications Server Ip Configuration Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Zos V1r12 0 Communications Server Ip Configuration Guide
  - Personalized Recommendations
  - Zos V1r12 0 Communications Server Ip Configuration Guide User Reviews and Ratings

- Zos V1r12 0 Communications Server Ip Configuration Guide and Bestseller Lists
- 5. Accessing Zos V1r12 0 Communications Server Ip Configuration Guide Free and Paid eBooks
  - Zos V1r12 0 Communications Server Ip Configuration Guide Public Domain eBooks
  - Zos V1r12 0 Communications Server Ip Configuration Guide eBook Subscription Services
  - Zos V1r12 0 Communications Server Ip Configuration Guide Budget-Friendly Options
- 6. Navigating Zos V1r12 0 Communications Server Ip Configuration Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Zos V1r12 0 Communications Server Ip Configuration Guide Compatibility with Devices
  - Zos V1r12 0 Communications Server Ip Configuration Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Zos V1r12 0 Communications Server Ip Configuration Guide
  - Highlighting and Note-Taking Zos V1r12 0 Communications Server Ip Configuration Guide
  - Interactive Elements Zos V1r12 0 Communications Server Ip Configuration Guide
- 8. Staying Engaged with Zos V1r12 0 Communications Server Ip Configuration Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Zos V1r12 0 Communications Server Ip Configuration Guide
- 9. Balancing eBooks and Physical Books Zos V1r12 0 Communications Server Ip Configuration Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Zos V1r12 0 Communications Server Ip Configuration Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Zos V1r12 0 Communications Server Ip Configuration Guide
  - Setting Reading Goals Zos V1r12 0 Communications Server Ip Configuration Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Zos V1r12 0 Communications Server Ip Configuration Guide
  - Fact-Checking eBook Content of Zos V1r12 0 Communications Server Ip Configuration Guide
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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