IBM

z/OS V2R2 Communications Server Overview

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Zos Communications Server Ip Configuration Guide

Rufus P. Credle Jr.,Uma Maheswari Kumaraguru,Gilson Cesar de Oliveira,Micky Reichenberg,Georg Senfleben,Rutsakon Techo,Maulide Xavier,IBM Redbooks

Zos Communications Server Ip Configuration Guide:

IBM z/OS V2R1 Communications Server TCP/IP Implementation Volume 4: Security and Policy-Based Networking Rufus P. Credle Jr.,Uma Maheswari Kumaraguru,Gilson Cesar de Oliveira,Micky Reichenberg,Georg Senfleben,Rutsakon Techo,Maulide Xavier,IBM Redbooks,2016-02-10 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 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 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 Network security requirements have become more stringent and complex Because many transactions are from unknown users and untrusted networks 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 **IBM z/OS V1R13 Communications Server TCP/IP Implementation: Volume 2 Standard Applications** Mike Ebbers,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 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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approaches with the z OS Communications Server It also explains optimized sysplex distributor intra sysplex load balancing This function represents improved application support using optimized local connections together with weight values from extended Workload Manager WLM interfaces Finally this book highlights important tuning parameters and suggests parameter values to maximize performance in many client installations **IBM z/OS V2R2 Communications Server TCP/IP Implementation Volume 1: Base Functions, Connectivity, and Routing** Bill White,Octavio Ferreira,Teresa Missawa,Teddy Sudewo,IBM Redbooks,2016-11-30 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 zTM 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 that is 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 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 is for people who install and support z OS Communications Server It introduces z OS Communications Server TCP IP describes the system resolver and shows the implementation of global and local settings for single and multi stack environments It presents implementation scenarios for TCP IP base functions connectivity routing and subplexing **IBM z/OS V2R1 Communications Server TCP/IP Implementation Volume 3: High Availability, Scalability, and Performance** Rufus P. Credle Jr.,Uma Maheswari Kumaraguru,Gilson Cesar de Oliveira,Micky Reichenberg,Georg Senfleben,Rutsakon Techo,Maulide Xavier,IBM Redbooks,2017-04-07 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 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

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IBM z/OS V1R11 Communications Server TCP/IP Implementation Volume 3: High Availability, Scalability, and Performance Bill White,Mike Ebbers,Demerson Cilloti,Gwen Dente,Sandra Elisa Freitag,Hajime Nagao,Carlos Bento Nonato,Frederick James Rathweg,Micky Reichenberg,Maulide Xavier,Thanks to the following people,IBM Redbooks,2010-02-22 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 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 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 For more specific information about z OS Communications Server base functions standard applications and security refer to the other volumes in the series IBM z OS V1R11 Communications Server TCP IP Implementation Volume 1 Base Functions

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except for a TLSv1 3 configuration are valid for releases as early as z OS V2R1 Throughout the paper we reference z OS Security Server or IBM Resource Access Control Facility IBM RACF in various contexts It should be understood that anywhere we mention RACF it implies any System Authorization Facility SAF compliant external security manager The intended audience for this paper includes network administrators security administrators and database administrators who want to set up and configure TLS SSL support for Db2 for z OS This paper presents more information about the more general contents of Security Functions of IBM DB2 10 for z OS SG24 7959 **Extending z/OS System Management Functions with IBM zAware** Frank Kyne,Karan Singh,Karla Arndt,Stephen Barton,Mark Noonan,Ryotaroh Sawada,IBM Redbooks,2013-08-01 This IBM Redbooks publication explains the capabilities of the IBM System z Advanced Workload Analysis Reporter IBM zAware and shows how you can use it as an integral part of your existing System z management tools IBM zAware is an integrated self learning analytics solution for IBM z OS that helps identify unusual system behavior in near real time It is designed to help IT personnel improve problem determination so they can restore service quickly and improve overall availability The book gives you a conceptual description of the IBM zAware appliance It will help you to understand how it fits into the family of IBM mainframe system management tools that include Runtime Diagnostics Predictive Failure Analysis PFA IBM Health Checker for z OS and z OS Management Facility z OSMF You are provided with the information you need to get IBM zAware up and running so you can start to benefit from its capabilities immediately You will learn how to manage an IBM zAware environment and see how other products can use the IBM zAware Application Programming Interface to extract information from IBM zAware for their own use The target audience includes system programmers system operators configuration planners and system automation analysts

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Table of Contents Zos Communications Server Ip Configuration Guide

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