

# IP Command Cheat Sheet

## Syntax

\$ ip [options] OBJECT COMMAND

Display the command syntax and lists all available options

\$ ip help

## IP Objects

OBJECTS	DESCRIPTION
address	IPv4 or IPv6 addresses on a device
link	Network interfaces for example Wi-Fi adapters and wired connections
route	Routing table entry
maddress	Multicast address
neighbour	Neighbor entry, which contains information about a neighboring device on the network.
mroute	Multicast routing cache entry
rule	Rule in routing policy database

## Quick Tip

When working with the IP command, you can save time by using shortened or abbreviated object names. For instance, instead of typing "address," you can simply use "addr" or even just "a." Give it a shot!

## IP Options

OPTION	DESCRIPTION
-a	Executes specified command over all objects
-d	Output more detailed information
-j	Displays the output in JSON format
-p	Adds indentation to the JSON output for readability
-s	Display extra statistics
-b	Instructs IP to display only IPv6 Addresses
-h	Output statistics with human readable values
-c	Enable colored output
-t	Display timestamps in the output
-b	Print only basic information in a tabular format

## IP Command vs Net-Tools

NET-TOOLS	IPROUTE COMMANDS (IP)
\$ arp -a	\$ ip neigh
\$ ifconfig -a	\$ ip addr
\$ netstat -g	\$ ip maddress
\$ route	\$ ip route

## Manage IP Addresses

COMMAND	DESCRIPTION
\$ ip addr help	Display a list of commands and arguments for the address object.
\$ ip addr show	Display information about all IP addresses.
\$ ip addr show dev wlan0	Display IP addresses on the specified network interface
\$ sudo ip addr add 192.168.1.21/24 dev wlan0	Add IP Address to the specified interface. Note you can add multiple addresses on the same by repeating the command with a different IP Address.
sudo ip addr del 192.168.1.22/24 dev wlan0	Delete IP Address on the specified interface.

## Manage Network Interfaces

COMMAND	DESCRIPTION
\$ ip link help	Display a list of commands and arguments for the link object.
\$ ip link show	Display information about all available network interfaces
\$ ip link show dev wlan0	Display information about a specific network interface
\$ ip link set dev wlan0 down	Bring the specified interface down.
\$ ip link set dev wlan0 up	Bring the specified interface up.

## Manage Routing Table

COMMAND	DESCRIPTION
\$ ip route help	Display a list of commands and arguments for the route object.
\$ ip route list	List all of the route entries in the kernel
\$ ip route list 10.18.0.0/17	Display routing information for a specific network
\$ ip route add 10.18.0.0/17 via 192.168.1.1	Add a new entry to the routing table
\$ ip route add 10.18.0.0/17 dev wlan0	Add a new entry to the routing table via the interface wlan0
\$ ip route add default via 192.168.1.1 dev wlan0	Add the default route
\$ ip route del default	Delete the default route
\$ ip route del 192.168.0.0/24 via 192.168.0.1	Delete the specified route

## Manage Neighbour Entries

COMMAND	DESCRIPTION
\$ ip neigh help	Display a list of commands and arguments for the neighbour object.
\$ ip neigh show	Display neighbour table entries
\$ ip neigh add 192.168.0.2 lladdr A4:C3:F0:9F:54:89 dev wlan0	Add entry to the ARP table
\$ ip neigh del 192.168.0.2 dev wlan0	Remove the ARP entry

## Important



When making changes to network interfaces, addresses, or routes, exercise extreme caution. It is simple to disconnect the server from the main network, which may require a system reboot to fix. When experimenting with new commands in a test environment or non-critical systems.

# **Ip User Guide And Commands**

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

## **Ip User Guide And Commands:**

*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 V1R12 Communications Server TCP/IP Implementation: Volume 4 Security and Policy-Based Networking** Mike Ebberts, 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 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 HiperSockets Implementation Guide** Mike Ebbers,Micky Reichenberg,Alexandra Winter,IBM Redbooks,2014-06-10 This IBM Redbooks publication provides information about the IBM System z HiperSockets™ function It offers a broad description of the architecture functions and operating systems support This publication will help you plan and implement HiperSockets It provides information about the definitions needed to configure HiperSockets for the supported operating systems This book is intended for system programmers network planners and systems engineers who want to plan and install HiperSockets A solid background in network and Transmission Control Protocol Internet Protocol TCP/IP is assumed

**IBM z/OS V2R2 Communications Server TCP/IP Implementation: Volume 3 High Availability, Scalability, and Performance** Bill White,Octavio Ferreira,Teresa Missawa,Teddy Sudewo,IBM Redbooks,2017-04-07 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™ platform 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 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 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 starts with a discussion of virtual IP addressing VIPA for high availability with and without a dynamic routing protocol It describes several workload balancing 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 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 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 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

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**Communications Server TCP/IP Implementation Volume 4: Security and Policy-Based Networking** Bill White, Mike Ebberts, Demerson Cilloti, Gwen Dente, Sandra Elisa Freitag, Hajime Nagao, Carlos Bento Nonato, Matt Nuttall, Frederick James Rathweg, Micky Reichenberg, Andi Wijaya, Maulide Xavier, IBM Redbooks, 2010-04-26 Note This PDF is over 900 pages so when you open it with Adobe Reader and then do a Save As the save process could time out Instead right click on the PDF and select Save Target As 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 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 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 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 come from unknown users and from 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 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 V1R11 Communications Server TCP/IP Implementation Volume 1: Base Functions, Connectivity, and Routing (SG24-7798); IBM z/OS V1R11 Communications Server TCP/IP Implementation Volume 2: Standard Applications (SG24-7799); IBM z/OS V1R11 Communications Server TCP/IP Implementation Volume 3: High Availability, Scalability, and Performance (SG24-7800). In addition, z/OS Communications Server IP Configuration Guide (SC31-8775), z/OS Communications Server IP Configuration Reference (SC31-8776), and z/OS Communications Server IP Users' Guide and Commands (SC31-8780) contain comprehensive descriptions of the individual parameters for setting up and using the functions that we describe in this book. They also include step-by-step checklists and supporting examples. It is not the intent of this book to duplicate the information in those publications but to complement them with practical implementation scenarios that might be useful in your environment. To determine at what level a specific function was introduced, refer to z/OS Communications Server New Function Summary (GC31-8771).

### **IBM z/OS V2R2 Communications Server TCP/IP Implementation: Volume 2 Standard Applications**

Bill White, Octavio Ferreira, Teresa Missawa, Teddy Sudewo, IBM Redbooks, 2016-09-21. 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 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 that are 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



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**IBM z/OS V2R1 Communications Server TCP/IP Implementation Volume 1: Base Functions, Connectivity, and Routing** Rufus P. Credle Jr., Uma Maheswari

Kumaraguru, Gilson Cesar de Oliveira, Micky Reichenberg, Georg Senfleben, Rutsakon Techo, Maulide Xavier, IBM Redbooks, 2015-05-04 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 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 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 showing implementation of global and local settings for single and multi stack environments It presents implementation scenarios for TCP/IP base functions connectivity routing virtual MAC support and sysplex subplexing      *OSA-Express Implementation Guide* Mike Ebbers, Wonjin Chung, Dody Kurniadi, Joselito Manoto, IBM Redbooks, 2014-06-04 This IBM Redbooks publication will help you to install tailor and configure the Open Systems Adapter OSA features that are available on IBM zEnterprise servers It focuses on the hardware installation and the software definitions that are necessary to provide connectivity to LAN environments This information will help you with planning and system setup This book also includes helpful utilities and commands for monitoring and managing the OSA features This information will be helpful to systems engineers network administrators and system programmers who plan for and install OSA features The reader is expected to have a good understanding of IBM System z hardware Hardware Configuration Definition HCD or the input/output configuration program IOCP Open Systems Adapter Support Facility OSA SF Systems Network Architecture Advanced Peer to Peer Networking SNA APPN and TCP/IP protocol      IBM z/OS V1R12 Communications Server TCP/IP Implementation: Volume 3 High Availability, Scalability, and Performance Mike Ebbers, Rama Ayyar, Octavio L. Ferreira, Gazi Karakus, Yukihiro 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

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*IBM z/OS V1R13 Communications Server TCP/IP Implementation: Volume 4 Security and Policy-Based Networking* Mike Ebbers,Rama Ayyar,Octavio L. Ferreira,Yohko Ojima,Gilson Cesar de Oliveira,Mike Riches,Maulide Xavier,IBM Redbooks,2016-02-10

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**TCP/IP Professional Reference Guide** Gilbert Held, 2000-12-21 The TCP/IP suite has evolved from an academic networking tool to the driving force behind the Internet intranets and extranets Advances in networking and communications software based upon the TCP/IP protocol suite has opened a new range of technologies that have the potential to considerably effect our lives A comprehensive reference TCP

[IBM z/OS V1R13 Communications Server TCP/IP Implementation: Volume 1 Base Functions, Connectivity, and Routing](#) Mike Ebberts, Rama Ayyar, Octavio L. Ferreira, Yohko Ojima, Gilson Cesar de Oliveira, Mike Riches, Maulide Xavier, IBM Redbooks, 2012-02-03 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

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