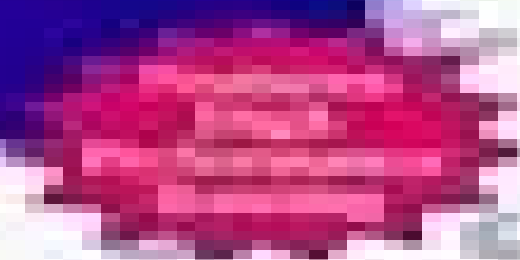


# SQL, APPN, HPR & TOPIC Integration

Charles C. Hightower

IBM Research  
TJ Watson Research Center



# Sna And Tcp Ip Integration And Migration

**Teresa C. Piliouras**



## **Sna And Tcp Ip Integration And Migration:**

**IBM z/OS V1R11 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 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 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 User's 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 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 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 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 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 V1R13 Communications Server TCP/IP Implementation: Volume 1 Base Functions, Connectivity, and Routing* Mike Ebbers,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 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 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 introduces z OS Communications Server TCP IP discusses 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 *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

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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 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 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

**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,Yukihiko 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 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 provide an introduction to z OS Communications Server TCP IP We then discuss the system resolver showing the implementation of global and local settings for single and multi stack environments We present implementation scenarios for TCP IP Base functions Connectivity Routing Virtual MAC support and sysplex subplexing      *Communications Systems Management Handbook, Sixth Edition*

Anura Guruge, Lisa Gaetta, 1999-10-25 Just a decade ago many industry luminaries predicted the collapse of the centralized data center and IT structure In its place would be a more decentralized client server model built upon the Open Systems Interconnect OSI networking architecture However client server never fully realized all of its promises and OSI floundered Now instead of client server and OSI we have the Web based model and TCP IP Together Web oriented technologies i e browsers web servers HTML Java and TCP IP are completely changing how the enterprise views its network Instead of serving as primarily an internal utility the enterprise network is now a vital means of delivering products and services and of tying an enterprise more closely to its customers partners and suppliers The impact to the very structure of the enterprise network could not be more profound Providing extensive coverage of planning networking LANs systems management communications issues and trends *Communications Systems Management Handbook 6th Edition* is your most reliable source for solid dependable solutions to real world data communications problems The tips strategies and case studies provided do more than just save you time and money They also save your data communications network and with it your professional life This new edition of the *Communications Systems Management Handbook* provides you with detailed information on the different facets of change in the enterprise network Enterprise network architectures LAN and campus networking Remote access WAN Data centers Client and servers Security Network Management What s more the New Edition is dramatically restructured providing a more logical grouping of articles into discrete sections that bring focus to a particular enterprise networking topic In addition the content of this edition has been substantially updated Almost three quarters of the articles are new to this edition The common theme throughout the handbook is the change that the enterprise network is undergoing and how to manage it The handbook s generous use of illustrations simplifies the technical workings of networks and communications systems The comprehensive index makes it easy to find the topics you want and related topics And because each chapter is written by an expert with first hand experience in data communications no other book gives you such a full range of perspectives and explanations of the technical planning administrative personnel and budget challenges of the communication manager s job Covering everything from electronic commerce to multimedia from system design and cost allocation to Ethernet switches and the impact of virtual private networks this is your one stop source for the best most essential data communications expertise to be found anywhere The *Communications Systems Management Handbook* serves as an information tool for proven advice and methods on managing network services and costs creating networking solutions and preparing for advanced communications network technologies      *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 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

[SNA and TCP/IP Integration Handbook](#) Ed Taylor, 1999 Ed Taylor breaks down the complex SNA TCP/IP challenge into manageable chunks In this essential handbook he provides everything network administrators and managers need to ensure a smooth transition from SNA to TCP/IP or an integrated environment No matter what your level of expertise or depth of technical knowledge this book provides the bridges the background and the clear uncompromising detail that you need to guarantee integration Fully illustrated with diagrams this book brings you assured guidance in design configuration internetworking and maintenance

*IBM z/OS V1R13 Communications Server TCP/IP Implementation: Volume 3 High Availability, Scalability, and Performance* Mike Ebbers, Rama Ayyar, Octavio L. Ferreira, Yohko Ojima, Gilson Cesar de Oliveira, Mike Riches, Maulide Xavier, IBM Redbooks, 2014-01-27 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 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

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Mitchell, Phil Wakelin, Nigel Williams, IBM Redbooks, 2012-03-26 The service oriented architecture SOA style of integration involves breaking an application down into common repeatable services that can be used by other applications both internal and external in an organization independent of the computing platforms on which the business and its partners rely In recent years CICS has added a variety of support for SOA and now provides near seamless connectivity with other IT environments This IBM Redbooks publication helps IT architects to select plan and design solutions that integrate CICS applications as service providers and requesters First we provide an introduction to CICS service enablement and introduce the architectural choices and technologies on which a CICS SOA solution can be based We continue with an in depth analysis of how to meet functional and non functional requirements in the areas of application interface security transactional scope high availability and scalability Finally we document three integration scenarios to illustrate how these technologies have been used by customers to build robust CICS integration solutions

**Network World**, 1998-07-27 For more than 20 years Network World has been the premier provider of information intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations Readers are responsible for designing implementing and managing the voice data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce

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Network Design, Second Edition Teresa C. Piliouras, 2004-12-28 There are hundreds of technologies and protocols used in telecommunications They run the full gamut from application level to physical level It is overwhelming to try to keep track of them Network Design Second Edition Management and Technical Perspectives is a broad survey of the major technologies and networking protocols and how they interrelate integrate migrate substitute and segregate functionality It presents fundamental issues that managers and engineers should be focused upon when designing a telecommunications strategy and selecting technologies and bridges the communication gap that often exists between managers and technical staff involved in the design and implementation of networks For managers this book provides comprehensive technology overviews case studies and tools for decision making requirements analysis and technology evaluation It provides guidelines templates checklists and recommendations for technology selection and configuration outsourcing disaster recovery business continuity and security The book cites free information so you can keep abreast of important developments Engineers benefit from a review of the major technologies and protocols up and down the OSI protocol stack and how they relate to network design strategies Topics include Internet standards protocols and implementation client server and distributed networking value added networking services disaster recovery and business continuity technologies legacy IBM mainframe technologies and migration to TCP IP and MANs WANs and LANs For engineers wanting to peek under the technology covers Network Design provides insights into the

mathematical underpinnings and theoretical basis for routing network design reliability and performance analysis This discussion covers star tree backbone mesh and access networks The volume also analyzes the commercial tools and approaches used in network design planning and management      **Network Design** Teresa C. Piliouras, 2004-12-28 There are hundreds of technologies and protocols used in telecommunications They run the full gamut from application level to physical level It is overwhelming to try to keep track of them Network Design Second Edition Management and Technical Perspectives is a broad survey of the major technologies and networking protocols and how they interr      **SNA and TCP/IP Integration** , 1999

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## **Table of Contents Sna And Tcp Ip Integration And Migration**

1. Understanding the eBook Sna And Tcp Ip Integration And Migration
  - The Rise of Digital Reading Sna And Tcp Ip Integration And Migration
  - Advantages of eBooks Over Traditional Books
2. Identifying Sna And Tcp Ip Integration And Migration
  - 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 Sna And Tcp Ip Integration And Migration
  - User-Friendly Interface

4. Exploring eBook Recommendations from Sna And Tcp Ip Integration And Migration
  - Personalized Recommendations
  - Sna And Tcp Ip Integration And Migration User Reviews and Ratings
  - Sna And Tcp Ip Integration And Migration and Bestseller Lists
5. Accessing Sna And Tcp Ip Integration And Migration Free and Paid eBooks
  - Sna And Tcp Ip Integration And Migration Public Domain eBooks
  - Sna And Tcp Ip Integration And Migration eBook Subscription Services
  - Sna And Tcp Ip Integration And Migration Budget-Friendly Options
6. Navigating Sna And Tcp Ip Integration And Migration eBook Formats
  - ePub, PDF, MOBI, and More
  - Sna And Tcp Ip Integration And Migration Compatibility with Devices
  - Sna And Tcp Ip Integration And Migration Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Sna And Tcp Ip Integration And Migration
  - Highlighting and Note-Taking Sna And Tcp Ip Integration And Migration
  - Interactive Elements Sna And Tcp Ip Integration And Migration
8. Staying Engaged with Sna And Tcp Ip Integration And Migration
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Sna And Tcp Ip Integration And Migration
9. Balancing eBooks and Physical Books Sna And Tcp Ip Integration And Migration
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Sna And Tcp Ip Integration And Migration
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Sna And Tcp Ip Integration And Migration
  - Setting Reading Goals Sna And Tcp Ip Integration And Migration
  - Carving Out Dedicated Reading Time



12. Sourcing Reliable Information of Sna And Tcp Ip Integration And Migration
  - Fact-Checking eBook Content of Sna And Tcp Ip Integration And Migration
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
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