

1. Record Nr.	UNINA9910810922203321
Titolo	i5/OS on IBM e-server p5 models : a guide to planning, implementation, and operation // [Nick Harris ... et al.]
Pubbl/distr/stampa	[S.l.], : IBM, International Technical Support Organization, c2005
Edizione	[1st ed.]
Descrizione fisica	xii, 274 p. : ill
Collana	IBM redbooks
Altri autori (Persone)	HarrisNick
Disciplina	005.4/32
Soggetti	Operating systems (Computers) IBM computers - Programming
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"March 2005." "SG24-8001-00."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front cover -- Contents -- Notices -- Trademarks -- Preface -- The team that wrote this redbook -- Become a published author -- Comments welcome -- Chapter 1. An introduction to i5/OS -- 1.1 The architecture of i5/OS -- 1.1.1 System Licensed Internal Code -- 1.1.2 Technology-Independent Machine Interface -- 1.1.3 Object-based design -- 1.1.4 Single-level storage -- 1.1.5 Input/output processor -- 1.1.6 DB2 Universal Database for iSeries -- 1.2 Disk pools -- 1.2.1 System disk pool (system ASP) -- 1.2.2 User disk pool (user ASP) -- 1.3 Load Source Unit -- 1.3.1 Initial program load -- 1.3.2 Alternate initial program load -- 1.4 Integrated file system -- 1.5 Communications -- 1.5.1 Transmission Control Protocol/Internet Protocol -- 1.5.2 Local area network standards -- 1.5.3 Wide Area Network standards -- 1.6 OptiConnect technology -- 1.7 Printing solutions -- 1.7.1 Print protocols -- 1.7.2 Spooling -- 1.7.3 Printer writer program -- 1.8 Security -- Chapter 2. Planning for i5/OS partitions on eServer p5 servers -- 2.1 Getting started with i5/OS on eServer p5 -- 2.2 Understanding the i5/OS performance measure -- 2.2.1 Commercial Processing Workloads -- 2.3 Sizing and validation tools -- 2.3.1 IBM eServer Workload Estimator -- 2.3.2 LPAR Validation Tool -- 2.4 Estimating capacity requirements -- 2.4.1 Dedicated processor partition capacity -- 2.4.2 Shared processor partition capacity -- 2.5 eServer p5 requirements -- 2.5.1 Hardware requirements -- 2.5.2

9411-100: eServer p5 I/O subsystem for i5/OS -- 2.5.3 Software requirements -- 2.6 Understanding i5/OS partition requirements -- 2.6.1 Requirements for i5/OS partitions -- 2.6.2 Processors -- 2.6.3 Memory -- 2.6.4 Expansion units -- 2.6.5 Input/output processors -- 2.6.6 Input/output adapters -- 2.6.7 Disk storage -- 2.6.8 Media devices -- 2.6.9 Electronic Customer Support -- 2.6.10 High speed links. 2.6.11 5250 online transaction processing -- 2.6.12 Interfaces -- 2.6.13 Consoles for i5/OS partitions -- 2.6.14 Hypervisor fixes -- 2.7 Switching i5/OS devices -- 2.8 Virtualization -- 2.8.1 Power Hypervisor (pHYP) -- 2.8.2 Virtual I/O support -- 2.8.3 Virtual Ethernet -- 2.8.4 Virtual SCSI -- 2.8.5 Virtual serial -- 2.8.6 Dedicated processor partitions -- 2.8.7 Shared processor partitions -- 2.8.8 Capacity on Demand -- 2.8.9 Partition resource management -- 2.9 Planning for disk storage systems -- 2.9.1 Disk protection -- 2.9.2 Enterprise disk systems -- 2.10 Multipathing -- 2.11 Planning for tape storage systems -- 2.11.1 Tape categories -- 2.11.2 Tape configurations for i5/OS and AIX partitions -- 2.11.3 Supported tape devices -- 2.11.4 Backup, Recovery and Media Services -- 2.11.5 BRMS with Tivoli Storage Manager -- 2.12 Availability -- 2.12.1 Preparing for disk failures -- 2.12.2 Planning for a power loss -- 2.12.3 Planning for application problems -- 2.12.4 Backup and recovery -- 2.13 Clustering -- 2.13.1 Hardware and software requirements for clusters -- 2.13.2 Cluster basics -- 2.13.3 Cluster with replication technology -- 2.13.4 Cluster with switched disks -- 2.14 Cross-site/geographic mirroring -- 2.14.1 Geographic mirroring requirements and limitations -- 2.14.2 Geographic mirroring with dedicated independent disk pools -- 2.14.3 Geographic mirroring with switchable independent disk pools -- 2.15 Integrated xSeries server solutions -- 2.16 Migrations -- Chapter 3. i5/OS partition configuration on an eServer p5 -- 3.1 Overview -- 3.2 Verifying required system resources -- 3.3 Creating a i5/OS partition on p570 -- 3.3.1 Creating i5/OS partition in HMC -- 3.3.2 Activating i5/OS partition in HMC -- Chapter 4. Installation of i5/OS on an eServer p5 -- 4.1 Installing i5/OS using the CD-ROM Device. 4.1.1 Installing Licensed Internal Code on a new logical partition -- 4.1.2 Installing i5/OS on a new logical partition -- 4.1.3 Installing additional licensed programs -- 4.2 Installing i5/OS using a Backup SAVSYS -- 4.2.1 Overview -- 4.2.2 Installing i5/OS on a new logical partition -- Chapter 5. Troubleshooting i5/OS installation problems -- 5.1 Where to begin recovery -- 5.1.1 Licensed Internal Code recovery -- 5.1.2 Operating system recovery -- 5.1.3 Licensed programs, PTFs, and secondary language recovery -- Chapter 6. Basic i5/OS user tasks -- 6.1 Sign-on -- 6.1.1 Sign-on using iSeries Navigator -- 6.2 Using control language commands -- 6.2.1 Control language structure -- 6.2.2 Entering control language commands -- 6.2.3 Entering control language commands using iSeries Navigator -- 6.3 Messages -- 6.3.1 Message queues -- 6.3.2 Managing messages -- 6.3.3 Managing messages using iSeries Navigator -- 6.4 Library objects -- 6.4.1 Object naming rules -- 6.4.2 Managing objects -- 6.4.3 Managing objects using iSeries Navigator -- 6.5 Jobs -- 6.5.1 Working with user jobs -- 6.5.2 Working with jobs using iSeries Navigator -- 6.6 User profiles -- 6.6.1 Managing user profiles -- 6.6.2 Managing user profiles using iSeries Navigator -- Chapter 7. System management of the i5/OS partitions on an eServer p5 -- 7.1 System management information resources -- 7.2 Basic system operation -- 7.2.1 Starting and shutting down IBM i5/OS partitions -- 7.2.2 Using help information -- 7.2.3 Managing user profiles -- 7.2.4 Set up TCP/IP -- 7.2.5 System value -- 7.3 Backup and recovery -- 7.4 Device management -- 7.5 Availability

-- 7.5.1 Data protection options -- 7.5.2 Concurrent maintenance --
7.6 Disk management -- 7.7 Work management -- 7.8 Journal
management -- Chapter 8. Problem determination for i5/OS on eServer
p5 -- 8.1 Problem determination.
8.1.1 System reference codes (SRC) -- 8.1.2 Messages -- 8.1.3 Logs --
8.2 Problem determination tools -- 8.2.1 Messages and logs -- 8.2.2
Maintenance information manual -- 8.2.3 System service tools (SSTs)
-- 8.3 Problem solving -- 8.4 Fixes -- 8.5 Electronic Customer Support
(ECS) -- 8.6 Electronic Service Agent -- 8.7 i5/OS support online
information -- Appendix A. Installation media information -- Related
publications -- IBM Redbooks -- Online resources -- How to get IBM
Redbooks -- Help from IBM -- Index -- Back cover.
