

1. Record Nr.	UNINA9910815710503321
Titolo	IBM eserver iSeries independent ASPs : a guide to moving applications to IASPs // [Nick Harris ... et al.]
Pubbl/distr/stampa	[S.l.], : IBM, International Technical Support Organization, 2003
Edizione	[1st ed.]
Descrizione fisica	xiv, 216 p. : ill
Collana	IBM redbooks
Altri autori (Persone)	HarrisNick
Disciplina	005.7/2
Soggetti	Web sites - Design Web servers - Computer programs
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"May 2003."
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. Introduction to independent auxiliary storage pools (IASPs) -- 1.1 Disk storage: A brief history -- 1.2 What's new in V5R2 -- 1.3 Positioning IASPs -- 1.3.1 Single system environment -- 1.3.2 Multisystem clustered environment -- 1.3.3 Who benefits from using independent disk pools -- Chapter 2. Planning for IASPs -- 2.1 Business needs -- 2.2 Performance requirements -- 2.2.1 Structure of IASPs -- 2.2.2 Disk drives: Arms versus capacity -- 2.2.3 Placement for performance -- 2.3 Software licensing requirements -- 2.3.1 Required software -- 2.3.2 Optional software -- 2.4 Restrictions -- 2.4.1 Switching independent disk pools between V5R1 and V5R2 systems -- 2.4.2 Spooling limitations -- 2.5 Application integration -- 2.6 Authority considerations -- 2.6.1 User profiles and IASPs -- 2.6.2 Planning for user profiles and space to be used -- 2.6.3 Authorization lists (AUTL) and IASPs -- 2.6.4 Accounting for space used by user profiles and authorization lists -- 2.7 Capacity planning -- 2.8 Hardware configuration and physical planning -- 2.8.1 Minimum hardware requirements -- 2.8.2 Physical versus logical switching -- 2.8.3 PCI card switching -- 2.8.4 ASPs and expansion towers -- 2.8.5 High-speed link (HSL) cable placement -- 2.8.6 HSL port feature -- 2.8.7 HSL cabling rules for multiple system switched tower implementation -- 2.8.8 SPCN cable considerations -- 2.9 Aesthetics

-- 2.10 Physical planning requirements -- 2.10.1 Advantages of using IASPs -- 2.10.2 Limitations of using IASP -- 2.11 Independent disk pool planning checklist -- 2.12 Disk planning worksheet -- 2.13 PCI card placement planning worksheet -- 2.14 Positioning independent disk pools -- Chapter 3. Configuration examples.  
3.1 Configuring IASPs -- 3.2 Non-switchable IASPs -- 3.2.1 Any one or more disks anywhere on the system -- 3.3 Switchable IASPs -- 3.3.1 Complete towers and IASPs -- 3.3.2 Subset of the disk units in a tower -- 3.3.3 Multiple IASPs in a tower -- 3.3.4 Disk units from two or more I/O towers -- Chapter 4. Application considerations -- 4.1 Name space, independent disk pools, and RDBs -- 4.2 Relational database directory -- 4.3 Distinctions -- 4.4 IASP as a separate database -- 4.4.1 Connections -- 4.4.2 System connections -- 4.4.3 Switching RDBs -- 4.4.4 Object creation -- 4.4.5 System-wide statement cache (SWSC) -- 4.4.6 Start Query Management Query (STRQMQR) and Start Query Management Procedure (STRQMPCR) RDB... -- 4.5 ODBC considerations -- 4.5.1 JDBC considerations -- 4.6 Systems-managed access-path protection (SMAPP) considerations -- 4.7 Query/400 -- 4.8 System values -- 4.9 Network attribute considerations -- 4.9.1 Alert Filters (ALRFTR) -- 4.9.2 Message Queue (MSGQ) -- 4.9.3 Distributed Data Management Access (DDMACC) -- 4.9.4 PC Support Access (PCSACC) -- 4.10 Journaling considerations -- 4.10.1 Journaling boundaries -- 4.10.2 Journaling with user-defined file system (UDFS) and library-capable independent disk pools -- 4.10.3 Journaling and disk pool groups -- 4.11 Subsystem considerations -- 4.12 DRDA considerations -- 4.13 Commitment control considerations -- 4.13.1 Commitment definitions -- 4.13.2 Considerations for XA transactions -- 4.13.3 Commitment control recommendations -- 4.14 Exit programs -- 4.15 System libraries -- 4.16 System ASP and all basic user ASPs (\*SYSBAS) -- 4.17 Other system considerations -- Chapter 5. Configuration and management -- 5.1 The heart of an independent disk pool -- 5.1.1 From the green-screen side -- 5.2 Disk pool operation -- 5.2.1 Disk pool and disk pool group. 5.2.2 Making an independent disk pool available -- 5.2.3 Duration of the Make Available option -- 5.2.4 Making an independent disk pool unavailable -- 5.2.5 Independent disk pool overflow -- 5.2.6 Independent disk pool IPL considerations -- 5.2.7 Switching independent disk pools -- 5.2.8 Planned disk pool switch -- 5.2.9 Unplanned IASP switch -- 5.2.10 IASP save/restore -- 5.2.11 ASP and disk unit numbering -- 5.2.12 Device domains -- 5.2.13 Selecting all disk units to add to a pool -- 5.3 Disk pool management -- 5.3.1 Creating a disk pool -- 5.3.2 Clearing the data from a disk pool -- 5.3.3 Recovering the disk pool group -- 5.3.4 Balancing a disk pool -- 5.3.5 Deleting a disk pool -- 5.3.6 Converting a user-defined file system (UDFS) disk pool to a primary or secondary disk pool -- 5.3.7 Setting the threshold of a disk pool -- 5.3.8 What to do when a disk pool fills up -- 5.3.9 Removing a disk unit from an IASP -- 5.3.10 Adding a disk unit to an existing IASP -- 5.3.11 Reclaim Storage and IASPs -- Chapter 6. Stand-alone IASP setup -- 6.1 IASP creation prerequisites -- 6.2 Creating a primary disk pool as a stand-alone resource -- 6.3 Creating a new secondary disk pool -- 6.4 Creating a new UDFS disk pool as a stand-alone resource -- Chapter 7. Switchable setup -- 7.1 Prerequisites for creating IASPs -- 7.2 Installing iSeries Navigator component logical systems -- 7.3 Creating a two-node cluster -- 7.4 Creating a switchable ASP -- 7.4.1 Creating an IASP switchable between multiple LPARs of a single system -- 7.4.2 Creating a switchable hardware group -- 7.4.3 Creating an IASP switchable between multiple systems and LPARs -- 7.4.4 Making a tower

switchable -- Chapter 8. Installing applications -- 8.1 Phoenix system discussion -- 8.2 Current Phoenix Software installation instructions -- 8.3 Changing the installation to a non-switchable disk pool.  
8.3.1 Phoenix system library installation -- 8.3.2 Creating the disk pool -- 8.3.3 User profile/job description considerations -- 8.3.4 Subsystem considerations -- 8.3.5 Job queue considerations -- 8.3.6 Output queue and printing considerations -- 8.3.7 Switchable disk pool -- 8.4 Moving applications from \*SYSBAS to an independent disk pool -- Chapter 9. An implementation example -- 9.1 Non-switchable simple independent disk pool -- 9.1.1 Installing Spectrum on an independent disk pool -- 9.1.2 Single non-switched independent disk pool comments -- 9.2 Switchable independent disk pool -- 9.2.1 Installing Content Manager OnDemand for iSeries on an independent disk pool -- 9.2.2 Switching the independent disk pool -- 9.2.3 Switchable independent disk pool comments -- 9.3 Independent disk pools with multiple versions of software -- 9.3.1 Usage for multiple versions -- 9.3.2 Multiple independent disk pools for multiple version comments -- 9.4 Integrated xSeries Servers and independent disk pools -- 9.4.1 Real example with Integrated xSeries Adapters -- 9.5 Partitions and independent disk pools -- 9.5.1 Real example setup -- 9.5.2 Other uses of partitions and independent disk pools -- 9.6 Linux and independent disk pools -- 9.6.1 Linux and independent disk pool comments -- 9.7 Remote and local journaling with independent disk pools -- Chapter 10. SAP in an IASP -- 10.1 SAP in a non-clustered environment -- 10.2 Implementation overview -- 10.3 The cluster environment -- 10.4 Setting up the SAP system -- 10.4.1 Manually setting up the SAP system -- 10.5 Setting up the IASP -- 10.5.1 Setting up the libraries -- 10.5.2 User profile and job description changes -- 10.5.3 Journal and journal receiver -- 10.5.4 IFS files -- 10.5.5 TCP/IP for switchable disk pool -- 10.5.6 Control Language (CL) source and corresponding command.  
10.5.7 Modifying SAP configuration files for IASP -- 10.6 Operating the SAP environment -- 10.6.1 Starting the SAP system -- 10.6.2 Manual switchover to a secondary system -- 10.6.3 Logging on to SAP using switchable IP address -- 10.6.4 SAP license considerations -- 10.7 SAP IT landscape with IASP considerations -- 10.7.1 Test system considerations -- 10.7.2 Disaster recovery considerations -- 10.7.3 Disk performance considerations -- Chapter 11. Backup and recovery -- 11.1 Using native OS/400 save and restore functions -- 11.2 Saving IASPs -- 11.2.1 Private IASPs -- 11.3 Saving your entire system -- 11.3.1 Special considerations on save commands -- 11.4 Restoring IASPs -- 11.4.1 Recovering an IASP after losing the system ASP -- 11.4.2 Saving and restoring Linux network storage space (NWSSTG) in an IASP -- 11.5 Using BRMS with IASPs -- 11.5.1 Backing up ASP devices -- 11.5.2 Recovery of ASP devices -- 11.6 Recovering an independent disk pool -- Appendix A. Prerequisite steps -- Configuring the Service Tools adapter on the iSeries server -- Setting up Management Central -- Appendix B. Planning checklists -- Independent disk pool checklist -- Disk planning worksheet -- PCI card placement planning worksheet -- Appendix C. Disk unit selection criteria -- Appendix D. The SETASPGRP command -- Details of the SETASPGRP command -- Examples of using the SETASPGRP command -- Example 1: Setting as new ASP group -- Example 2: Specifying no ASP group -- Escape message for the SETASPGRP command -- Appendix E. Command-to-Navigator cross reference -- Appendix F. Supported and unsupported objects, APIs -- APIs relating to IASPs -- QYASPOL -- QGYCLST -- QGYGTLE -- QHSMMOV L -- QHSMMOV F -- Related publications -- IBM Redbooks -- Other publications --

Referenced Web sites -- How to get IBM Redbooks -- IBM Redbooks collections -- Index -- Back cover.

---

Sommario/riassunto

This IBM® IBM Redbooks publication explains how to install and configure the new independent auxiliary storage pool (IASP) functionality of OS/400® V5R2. It is designed to help IBM technical professionals, Business Partners, and Customers understand and implement IASP in the IBM eServer iSeries server and under OS/400 V5R2. In addition, this book provides the background information that is necessary to plan, implement, and customize this functionality to your particular environment. It provides advice on running native OS/400 applications with either application data or most application objects residing in an IASP. Considering you can also use IASPs in a cluster environment, this book shows you the basic steps to make your IASP switchable between two iSeries servers in a high-speed link (HSL) loop.

---