

as400 interview questions and answers

as400 interview questions and answers are essential for professionals preparing for roles involving IBM's AS/400 system, also known as IBM iSeries. This article provides a comprehensive guide covering commonly asked questions that test a candidate's knowledge about AS/400 architecture, commands, programming languages like RPG and COBOL, database management, and system administration. Understanding these questions and their detailed answers can significantly enhance a candidate's confidence and performance in interviews related to IBM AS/400 roles. The content is structured to cover fundamental concepts, technical specifics, and practical scenarios frequently encountered in the workplace. Whether you are a developer, system administrator, or a support specialist, this guide will help you grasp the critical topics and prepare effectively. Below is a detailed table of contents for easy navigation through the key areas of AS/400 interview preparation.

- AS400 System Overview and Architecture
- AS400 Programming and Development
- Database Management on AS400
- AS400 Commands and Utilities
- System Administration and Security
- Troubleshooting and Performance Tuning

AS400 System Overview and Architecture

Understanding the AS400 system's architecture is fundamental for any candidate appearing for an interview focused on IBM iSeries technology. The AS400 platform is known for its robust architecture designed around an integrated operating system known as IBM i. This section outlines the core components and architecture of AS400, which are frequently questioned in interviews.

What is AS400 and its primary features?

AS400, now known as IBM iSeries, is a midrange server designed for small and medium businesses. It integrates hardware, an operating system, a database, and middleware in a single platform. Key features include high reliability, scalability, security, and support for multiple programming languages like RPG, COBOL, and Java.

Explain the architecture of AS400 system.

The AS400 architecture consists of a single-level storage model, integrated DB2 database, and a hardware abstraction layer. It uses an object-based system where everything is treated as an object, including files, programs, and user profiles. This architecture ensures robust data integrity and efficient resource management.

What is the role of the IBM i operating system?

IBM i is the operating system running on AS400 servers. It manages hardware resources, executes applications, and provides security services. The OS is tightly integrated with DB2 for i, enabling seamless database management and application development.

AS400 Programming and Development

Programming on the AS400 platform involves using specific languages and development environments tailored to its architecture. This section discusses common programming questions related to RPG, COBOL, and CL (Control Language), which are pivotal for AS400 development roles.

What programming languages are commonly used on AS400?

RPG (Report Program Generator) and COBOL are the primary programming languages on AS400. RPG is widely favored for business applications due to its efficiency in handling database operations. CL is used for scripting and job control, while Java and SQL are also supported for modern development needs.

Explain the difference between RPG IV and RPG III.

RPG IV, also known as ILE RPG, is an enhanced version of RPG III that supports modular programming, free-form syntax, and better integration with modern technologies. RPG IV allows for more readable code and easier maintenance compared to the fixed-format RPG III.

What is Control Language (CL) in AS400?

Control Language (CL) is a scripting language used to control the execution of programs

and system functions on AS400. It is essential for automating tasks such as job scheduling, file management, and system operations.

Database Management on AS400

Database management is crucial since AS400 includes an integrated DB2 database system. This section covers common interview questions related to database concepts, SQL usage, and file handling on AS400.

What is DB2 for i, and why is it important?

DB2 for i is the integrated relational database management system in AS400. It provides high-performance data storage, retrieval, and management, tightly coupled with the IBM i operating system for optimized performance and reliability.

Explain physical files and logical files in AS400.

Physical files store the actual data records in the database on AS400. Logical files are views or indexes created on physical files to optimize data access and retrieval. Logical files do not store data but provide different access paths or selection criteria.

How is SQL used on the AS400 platform?

SQL on AS400 is used for querying, updating, and managing data within DB2 for i. It supports standard SQL commands along with embedded SQL in programming languages like RPG and COBOL to interact with the database efficiently.

AS400 Commands and Utilities

Knowledge of AS400 commands and utilities is vital for effective system interaction and management. This section highlights key commands and their purposes, frequently tested in technical interviews.

What are some commonly used AS400 commands?

Frequently used commands include:

- **WRKACTJOB** – Work with active jobs to monitor system activity.
- **WRKOUTQ** – Work with output queues for managing print jobs.
- **DSPMSG** – Display system messages and logs.
- **CHGUSRPRF** – Change user profile attributes.
- **CRTUSRPRF** – Create new user profiles.

What is the purpose of Work Management commands?

Work Management commands help administrators monitor and control system jobs, batch processes, and interactive sessions. They provide insights into resource usage and job statuses essential for maintaining system performance.

Explain the use of the WRKOBJ command.

The WRKOBJ (Work with Objects) command allows users to view and manage objects stored in the AS400 system libraries. It is used to display object attributes, change object statuses, or delete objects if necessary.

System Administration and Security

System administration and security are critical areas for AS400 professionals. This section covers interview questions related to user management, system configuration, and security protocols on the AS400 platform.

How is user security managed on AS400?

User security on AS400 involves creating and managing user profiles, assigning object-level and system-level authorities, and implementing password policies. Security is enforced through user authentication and role-based access controls.

What are some common security features in AS400?

Important security features include:

- Object-level security controlling access to files and programs.
- Audit journal for tracking security-related events.
- Password policies enforcing complexity and expiration.
- Encryption capabilities for data protection.

Explain the concept of library list in AS400.

The library list is a sequence of libraries that the system searches to locate objects when a command or program is run. It controls the visibility and accessibility of objects, playing a vital role in system organization and security.

Troubleshooting and Performance Tuning

Effective troubleshooting and performance tuning are essential skills for maintaining AS400 systems. This final section addresses questions related to identifying issues and optimizing system performance.

How do you troubleshoot job failures on AS400?

Troubleshooting job failures involves checking job logs using commands like DSPJOBLOG, reviewing system messages with DSPMSG, and analyzing job status through WRKJOB. Understanding error codes and system logs helps pinpoint the root cause.

What tools are available for performance monitoring on AS400?

Performance monitoring tools include:

- WRKSYSSTS – Work with system status to view CPU, memory, and disk usage.
- WRKACTJOB – Monitor active jobs and their resource consumption.
- Performance Explorer – A graphical tool for detailed performance analysis.
- Job Watcher – Tracks job resource usage over time.

Describe methods to optimize AS400 system performance.

Performance optimization methods include tuning database indexes, managing job priorities, optimizing query execution, cleaning up unused objects, and regularly monitoring system resources to avoid bottlenecks and ensure smooth operation.

Frequently Asked Questions

What is AS400 and why is it used?

AS400, now known as IBM iSeries, is a midrange server designed for small and medium-sized businesses. It is used for its robustness, security, and integrated database system, making it suitable for enterprise-level applications.

What programming languages are commonly used on AS400 systems?

Common programming languages used on AS400 systems include RPG (Report Program Generator), COBOL, CL (Control Language), and sometimes Java and SQL for database operations.

What is an AS400 library and how is it different from a directory?

An AS400 library is a system object that contains other objects like files, programs, and modules. Unlike traditional directories in other operating systems, libraries organize objects logically rather than physically.

Explain the concept of 'job' in AS400.

In AS400, a job is a unit of work or a process that the system runs. Jobs can be batch jobs, interactive jobs, or subsystem jobs, and they are managed by the system to execute programs and commands.

How do you handle database operations on AS400?

Database operations on AS400 are primarily handled using the integrated DB2 database. SQL queries, embedded SQL in RPG or COBOL programs, and native DDS (Data Description Specifications) are commonly used for database manipulation.

What is the significance of CL (Control Language) in AS400?

CL (Control Language) is a scripting language used in AS400 to control system operations, automate tasks, and manage resources. It is essential for writing batch jobs and system administration scripts.

Additional Resources

1. *AS400 Interview Questions and Answers: The Ultimate Guide*

This comprehensive guide covers a wide range of interview questions frequently asked in AS400 job interviews. It provides detailed answers and explanations, helping candidates understand core concepts and practical applications. The book is ideal for both beginners and experienced professionals aiming to refresh their knowledge.

2. *Mastering AS400: Interview Questions and Solutions*

Focused on practical problem-solving, this book presents common AS400 interview questions alongside step-by-step solutions. It emphasizes real-world scenarios to prepare candidates for technical discussions. The clear layout and concise answers make it a valuable resource for quick revision.

3. *AS400 RPG Programming Interview Questions and Answers*

Specializing in RPG programming on the AS400 platform, this book addresses specific questions related to coding, debugging, and optimization. It includes sample code snippets and best practices to enhance programming skills. Ideal for developers seeking roles that require strong RPG knowledge.

4. *AS400 System Administration Interview Q&A*

Designed for system administrators, this book focuses on AS400 system management, configuration, and troubleshooting questions. It details commands, utilities, and system architecture to ensure readiness for technical interviews. The book also covers security and performance tuning aspects.

5. *Practical AS400 Interview Questions for IBM i Professionals*

Targeting IBM i professionals, this book compiles practical interview questions across various modules, including database, networking, and security. It offers concise answers with context, helping candidates demonstrate both theoretical knowledge and hands-on experience. The book is structured for easy navigation during preparation.

6. *AS400 DB2 Interview Questions and Answers*

This book delves into database management on the AS400 system, focusing on DB2 queries, optimization, and administration. It prepares candidates for database-related roles with detailed explanations and sample SQL commands. The content is suitable for both developers and database administrators.

7. *AS400 Interview Questions: Concepts and Best Practices*

Covering fundamental concepts and industry best practices, this book provides a holistic view of AS400 technology. It includes questions on programming, system operations, and application development. The book is a great tool for understanding the underlying

principles and preparing for scenario-based questions.

8. *Top 100 AS400 Interview Questions and Answers*

A concise collection of the most commonly asked AS400 interview questions, this book serves as a quick revision guide. Each question is paired with a clear and direct answer, making it perfect for last-minute preparation. It covers a broad spectrum of topics relevant to the AS400 environment.

9. *Advanced AS400 Interview Preparation Guide*

This advanced guide targets experienced professionals looking to deepen their expertise before interviews. It includes complex scenario-based questions and detailed answers involving system internals, performance tuning, and advanced programming techniques. The book encourages critical thinking and problem-solving skills for high-level positions.

As400 Interview Questions And Answers

As400 Interview Questions And Answers

Related Articles

- [auto damage appraiser online training](#)
- [assessment of children and youth with special needs](#)
- [arthur miller death of a salesman](#)

[Back to Home](#)