

ibm spectrum copy data management

ibm spectrum copy data management is an advanced solution designed to optimize data storage and enhance operational efficiency in enterprise IT environments. As organizations face exponential data growth, managing multiple copies of the same data for backup, testing, and development purposes becomes increasingly challenging and costly. IBM Spectrum Copy Data Management addresses these challenges by providing a unified platform that reduces redundant data copies, accelerates access to data, and simplifies data governance. This article explores the key features, benefits, architecture, and use cases of IBM Spectrum Copy Data Management, highlighting how it integrates with existing data infrastructures to improve productivity and reduce storage costs. Additionally, the article discusses best practices for deployment and how IBM's solution compares with other data management tools in the market. The following sections provide an in-depth look at the capabilities and strategic value of IBM Spectrum Copy Data Management.

- Overview of IBM Spectrum Copy Data Management
- Key Features and Capabilities
- Benefits of IBM Spectrum Copy Data Management
- Architecture and Integration
- Use Cases and Applications
- Best Practices for Implementation
- Comparison with Other Copy Data Management Solutions

Overview of IBM Spectrum Copy Data Management

IBM Spectrum Copy Data Management (CDM) is a software solution designed to streamline the creation, management, and automation of data copies across hybrid cloud environments. It targets the inefficiencies that arise from maintaining multiple redundant copies of data, which can consume significant storage resources and complicate data governance. By providing centralized control over data copies, IBM Spectrum CDM enables enterprises to optimize storage utilization and accelerate data access for various operational needs such as backup, disaster recovery, analytics, and application development.

Purpose and Scope

The primary purpose of IBM Spectrum Copy Data Management is to reduce the cost and complexity associated with managing data copies. It supports a wide range of data sources and storage platforms, including on-premises storage arrays and cloud storage services. This flexibility allows organizations to manage data copies consistently across diverse IT environments, promoting data agility and operational efficiency.

Target Audience

IBM Spectrum CDM is designed for IT professionals responsible for data protection, storage management, and application lifecycle management. This includes storage administrators, backup operators, and DevOps teams who require rapid access to up-to-date data copies without incurring excessive storage overhead or operational delays.

Key Features and Capabilities

IBM Spectrum Copy Data Management delivers a rich set of features that facilitate efficient copy data lifecycle management, automation, and policy enforcement. These capabilities enable organizations to reduce data sprawl while maintaining data availability for critical workloads.

Centralized Copy Data Management

The solution provides a centralized dashboard to monitor and manage all data copies across the enterprise. This visibility helps administrators track copy usage, enforce retention policies, and identify opportunities to eliminate unnecessary copies.

Automated Copy Creation and Provisioning

IBM Spectrum CDM automates the creation and provisioning of data copies based on customizable policies. This automation reduces manual intervention, accelerates data refresh cycles, and ensures copies are created in compliance with organizational standards.

Copy Data Reduction Techniques

The platform employs techniques such as deduplication and incremental updates to minimize storage consumption associated with data copies. By leveraging these methods, organizations can significantly reduce the footprint of multiple data copies while maintaining data integrity.

Integration with Backup and Storage Systems

IBM Spectrum CDM integrates seamlessly with various backup software, storage arrays, and cloud providers. This interoperability allows organizations to leverage existing infrastructure investments while enhancing copy data management capabilities.

Benefits of IBM Spectrum Copy Data Management

Implementing IBM Spectrum Copy Data Management provides measurable benefits that address common challenges in data copy proliferation and management.

Storage Cost Reduction

By reducing redundant data copies and optimizing storage utilization, IBM Spectrum CDM lowers storage costs. Organizations can defer capital expenditures on additional storage hardware and reduce operational expenses related to data management.

Improved Data Availability and Agility

The ability to rapidly provision and refresh data copies enables faster application development, testing, and analytics. This agility supports innovation and accelerates time-to-market for new services.

Enhanced Data Governance and Compliance

Centralized management and policy enforcement ensure data copies are retained and deleted according to regulatory requirements and corporate policies. This reduces the risk of data breaches and compliance violations.

Operational Efficiency

Automation of copy creation and lifecycle management reduces manual workloads and minimizes human errors. IT teams can focus on strategic initiatives rather than routine copy data tasks.

Architecture and Integration

IBM Spectrum Copy Data Management is architected to operate across heterogeneous environments, supporting both on-premises and cloud infrastructures with scalable and flexible integration options.

Core Components

The core components include a centralized management server, policy engine, and connectors to storage systems and backup software. These elements work together to automate copy data workflows and enforce policies consistently.

Storage and Backup Integration

IBM Spectrum CDM integrates with IBM Spectrum Protect, IBM FlashSystem, and third-party storage arrays to leverage native snapshot and cloning capabilities. It also supports cloud storage providers such as IBM Cloud Object Storage and others for hybrid cloud deployments.

API and Automation Support

The solution offers RESTful APIs and command-line interfaces that facilitate integration with DevOps pipelines, orchestration tools, and custom automation scripts. This extensibility supports modern IT operational models.

Use Cases and Applications

IBM Spectrum Copy Data Management supports a diverse range of use cases across industries and IT domains, helping organizations maximize the value of their data assets.

Backup and Disaster Recovery

By managing backup copies efficiently, IBM Spectrum CDM helps reduce backup windows and storage costs while ensuring rapid recovery capabilities in case of data loss or system failure.

Application Development and Testing

Development and QA teams can quickly provision up-to-date data copies for testing environments without impacting production systems or incurring excessive storage consumption.

Analytics and Reporting

Analytics teams gain timely access to relevant data copies to perform analysis and generate reports, accelerating decision-making processes.

Regulatory Compliance and Data Retention

IBM Spectrum CDM enforces retention policies that comply with industry regulations such as HIPAA, GDPR, and SOX, ensuring that data copies are retained or deleted appropriately.

Best Practices for Implementation

Successful deployment of IBM Spectrum Copy Data Management involves careful planning and adherence to best practices to maximize benefits and minimize risks.

Assess Data Copy Requirements

Organizations should analyze current data copy proliferation and usage patterns to define policies that balance data availability with storage efficiency.

Define Clear Copy Data Policies

Establish policies for copy creation frequency, retention periods, and access controls to automate management and enforce compliance.

Leverage Automation and Integration

Utilize IBM Spectrum CDM's automation features and integrate with existing IT workflows to streamline operations and reduce manual effort.

Monitor and Optimize Continuously

Regularly review copy data metrics and adjust policies to optimize storage utilization and operational efficiency over time.

Comparison with Other Copy Data Management Solutions

IBM Spectrum Copy Data Management competes with several other copy data management platforms, each offering unique features and strengths.

Strengths of IBM Spectrum CDM

- Robust integration with IBM storage and backup products

- Comprehensive policy-driven automation
- Support for hybrid cloud environments
- Scalability and flexibility for enterprise workloads

Considerations

Some organizations may evaluate alternatives based on specific requirements such as cloud-native architectures, pricing models, or vendor ecosystems. IBM Spectrum CDM's emphasis on integration and policy management makes it well-suited for enterprises invested in IBM technologies or requiring complex hybrid environments.

Frequently Asked Questions

What is IBM Spectrum Copy Data Management (CDM)?

IBM Spectrum Copy Data Management (CDM) is a software solution that automates the creation, management, and governance of copy data across hybrid cloud and on-premises environments to optimize storage use and improve data availability.

How does IBM Spectrum CDM help reduce storage costs?

IBM Spectrum CDM reduces storage costs by minimizing redundant data copies, optimizing copy data workflows, and providing automated policies for managing and deleting unnecessary copies, thus improving storage efficiency.

Can IBM Spectrum CDM integrate with cloud storage providers?

Yes, IBM Spectrum CDM supports integration with major cloud storage providers, enabling organizations to manage copy data across both on-premises and cloud environments for hybrid cloud data management.

What types of data sources are supported by IBM Spectrum Copy Data Management?

IBM Spectrum CDM supports a wide range of data sources including databases, file systems, virtual machines, applications, and enterprise storage systems, allowing comprehensive copy data management across IT infrastructure.

How does IBM Spectrum CDM improve data governance and compliance?

IBM Spectrum CDM improves data governance by providing centralized visibility and control over copy data, enforcing retention policies, tracking data lineage, and enabling audit capabilities to ensure compliance with regulatory requirements.

Is IBM Spectrum Copy Data Management suitable for DevOps and test/dev environments?

Yes, IBM Spectrum CDM is ideal for DevOps and test/dev environments as it enables rapid provisioning of application-consistent data copies, accelerates development cycles, and reduces storage overhead for test and development workloads.

What are the key benefits of using IBM Spectrum CDM for backup and recovery?

IBM Spectrum CDM enhances backup and recovery by automating copy creation, reducing backup windows, improving data consistency, and enabling faster recovery times through efficient copy data management and orchestration.

How does IBM Spectrum CDM support multi-cloud strategies?

IBM Spectrum CDM supports multi-cloud strategies by enabling seamless copy data management across multiple cloud platforms and on-premises environments, providing flexibility, data mobility, and avoiding vendor lock-in.

What deployment options are available for IBM Spectrum Copy Data Management?

IBM Spectrum CDM can be deployed on-premises, in private clouds, or as part of hybrid cloud architectures, offering flexible deployment options to meet diverse organizational needs and infrastructure setups.

Additional Resources

1. Mastering IBM Spectrum Copy Data Management

This book provides a comprehensive introduction to IBM Spectrum Copy Data Management (CDM), covering its core features and functionalities. Readers will learn how to efficiently manage and reduce copy data sprawl in enterprise environments. Practical examples and best practices help IT professionals optimize storage and improve backup workflows.

2. IBM Spectrum Copy Data Management for IT Professionals

Designed for IT administrators and storage engineers, this guide explores the deployment and administration of IBM Spectrum CDM. It includes step-by-step instructions for

installation, configuration, and integration with existing storage infrastructures. The book also discusses troubleshooting techniques and performance tuning.

3. Data Protection Strategies with IBM Spectrum Copy Data Management

Focusing on data protection, this book explains how IBM Spectrum CDM enhances backup and recovery processes. It addresses compliance requirements, data retention policies, and disaster recovery planning. Readers gain insights into using IBM Spectrum CDM to minimize downtime and safeguard critical data assets.

4. Implementing Copy Data Management in Hybrid Cloud Environments

This title explores how IBM Spectrum Copy Data Management supports hybrid cloud architectures. It details methods for managing copy data across on-premises and cloud storage, optimizing data movement, and reducing costs. Case studies illustrate successful hybrid cloud implementations using IBM Spectrum CDM.

5. Advanced Techniques in IBM Spectrum Copy Data Management

Targeted at experienced users, this book delves into advanced features and customization options of IBM Spectrum CDM. Topics include scripting automation, API integration, and complex policy creation. The book empowers readers to tailor the solution to meet unique organizational requirements.

6. Optimizing Storage Efficiency with IBM Spectrum Copy Data Management

This book highlights strategies for maximizing storage utilization using IBM Spectrum CDM. It covers deduplication, data lifecycle management, and space-saving techniques. Readers will learn how to reduce storage costs while maintaining high availability and data integrity.

7. IBM Spectrum Copy Data Management: A Hands-On Approach

With a practical, lab-oriented format, this book guides readers through real-world scenarios using IBM Spectrum CDM. Exercises include setting up workflows, managing copy data, and monitoring system health. It is ideal for learners who prefer experiential learning and skill-building.

8. Integrating IBM Spectrum Copy Data Management with Enterprise Backup Solutions

This book examines how IBM Spectrum CDM works alongside popular backup and recovery tools. It discusses integration strategies, compatibility considerations, and performance impacts. IT teams will benefit from understanding how to create cohesive data protection ecosystems.

9. The Future of Copy Data Management: Insights from IBM Spectrum CDM

Looking ahead, this book explores emerging trends and innovations in copy data management with a focus on IBM Spectrum CDM. It covers topics such as AI-driven data analytics, automation, and evolving storage technologies. The book provides thought leadership for professionals planning long-term data management strategies.

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ibm spectrum copy data management: Using IBM Spectrum Copy Data Management with IBM FlashSystem A9000 Or A9000R and SAP HANA Axel Westphal, Bert Dufrasne, Markus Oscheka, 2017 Data is the currency of the new economy, and organizations are increasingly tasked with finding better ways to protect, recover, access, share, and use it. IBM Spectrum™ Copy Data Management is aimed at using existing data in a manner that is efficient, automated, scalable. It helps you manage all of those snapshot and IBM FlashCopy® images made to support DevOps, data protection, disaster recovery, and Hybrid Cloud computing environments. This IBM® Redpaper™ publication specifically addresses IBM Spectrum Copy Data Management in combination with IBM FlashSystem® A9000 or A9000R when used for Automated Disaster Recovery of SAP HANA.

ibm spectrum copy data management: IT Modernization using Catalogic ECX Copy Data Management and IBM Spectrum Storage Jon Tate, Christian Burns, Kamlesh Lad, Prashant Jagannathan, Peter Eicher, IBM Redbooks, 2016-04-05 Data is the currency of the new economy, and organizations are increasingly tasked with finding better ways to protect, recover, access, share, and use data. Traditional storage technologies are being stretched to the breaking point. This challenge is not because of storage hardware performance, but because management tools and techniques have not kept pace with new requirements. Primary data growth rates of 35% to 50% annually only amplify the problem. Organizations of all sizes find themselves needing to modernize their IT processes to enable critical new use cases such as storage self-service, Development and Operations (DevOps), and integration of data centers with the Cloud. They are equally challenged with improving management efficiencies for long established IT processes such as data protection, disaster recovery, reporting, and business analytics. Access to copies of data is the one common feature of all these use cases. However, the slow, manual processes common to IT organizations, including a heavy reliance on labor-intensive scripting and disparate tool sets, are no longer able to deliver the speed and agility required in today's fast-paced world. Copy Data Management (CDM) is an IT modernization technology that focuses on using existing data in a manner that is efficient, automated, scalable, and easy to use, delivering the data access that is urgently needed to meet the new use cases. Catalogic ECX, with IBM® storage, provides in-place copy data management that modernizes IT processes, enables key use cases, and does it all within existing infrastructure. This IBM Redbooks® publication shows how Catalogic Software and IBM have partnered together to create an integrated solution that addresses today's IT environment.

ibm spectrum copy data management: IBM Private, Public, and Hybrid Cloud Storage Solutions Larry Coyne, Joe Dain, Eric Forestier, Patrizia Guaitani, Robert Haas, Christopher D. Maestas, Antoine Maille, Tony Pearson, Brian Sherman, Christopher Vollmar, IBM Redbooks, 2018-11-27 This IBM® Redpaper™ publication takes you on a journey that surveys cloud computing to answer several fundamental questions about storage cloud technology. What are storage clouds? How can a storage cloud help solve your current and future data storage business requirements? What can IBM do to help you implement a storage cloud solution that addresses these

needs? This paper shows how IBM storage clouds use the extensive cloud computing experience, services, proven technologies, and products of IBM to support a smart storage cloud solution designed for your storage optimization efforts. Clients face many common storage challenges and some have variations that make them unique. It describes various successful client storage cloud implementations and the options that are available to meet your current needs and position you to avoid storage issues in the future. IBM Cloud™ Services (IBM Cloud Managed Services® and IBM SoftLayer®) are highlighted as well as the contributions of IBM to OpenStack cloud storage. This paper is intended for anyone who wants to learn about storage clouds and how IBM addresses data storage challenges with smart storage cloud solutions. It is suitable for IBM clients, storage solution integrators, and IBM specialist sales representatives.

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ibm spectrum copy data management: Modernizing Your IT Infrastructure with IBM b-type Gen 6 Storage Networking and IBM Spectrum Storage Products Deana Coble, Simone Bosisio, Lee Cockrell, Steve Guendert, Abilio Oliveira, Rodrigo Jungi Suzuki, IBM Redbooks, 2018-02-02 This IBM® Redbooks® publication describes the challenge that most data centers face when updating and modernizing their IT infrastructure. New business demands are driving new applications, joining, and creating in the digital world. A rich, meaningful digital experience is the key to effective engagement in today's integrated digital world. Companies are able to customize digital experiences for their employees with personalized, targeted content for fully connecting with customers, co-workers, and business partners in the most powerful and productive ways. To achieve this, a robust infrastructure is required. Speed of access to data is one of the most important factors. The development of the flash storage devices helped with the insatiable desire for data access speed, but even that is not enough for the most demanding uses. The needs of SAN switches, servers, and software defined infrastructure (SDI) technologies are all requiring more; therefore, the bigger picture needs to be wholly analyzed to build a balanced ecosystem. This publication can help you with planning for growth in your IT infrastructure. This publication explores the concept of modernization and considers important aspects of IT, such as SAN switches, storage systems, and software defined storage.

ibm spectrum copy data management: SAP HANA on IBM Power Systems Backup and Recovery Solutions Dino Quintero, Rosane Goldstein, Adriana Melges Quintanilha Weingart, Pia Nymann, Andrei Socoliuc, IBM Redbooks, 2021-05-27 This IBM® Redpaper Redbooks publication provides guidance about a backup and recovery solution for SAP High-performance Analytic Appliance (HANA) running on IBM Power Systems. This publication provides case studies and how-to procedures that show backup and recovery scenarios. This publication provides information about how to protect data in an SAP HANA environment by using IBM Spectrum® Protect and IBM Spectrum Copy Data Manager. This publication focuses on the data protection solution, which is described through several scenarios. The information in this publication is distributed on an as-is basis without any warranty that is either expressed or implied. Support assistance for the use of this

material is limited to situations where IBM Spectrum Scale or IBM Spectrum Protect are supported and entitled, and where the issues are specific to a blueprint implementation. The goal of the publication is to describe the best aspects and options for backup, snapshots, and restore of SAP HANA Multitenant Database Container (MDC) single and multi-tenant installations on IBM Power Systems by using theoretical knowledge, hands-on exercises, and documenting the findings through sample scenarios. This document provides resources about the following processes: Describing how to determine the best option, including SAP Landscape aspects to back up, snapshot, and restore of SAP HANA MDC single and multi-tenant installations based on IBM Spectrum Computing Suite, Red Hat Linux Relax and Recover (ReAR), and other products. Documenting key aspects, such as recovery time objective (RTO) and recovery point objective (RPO), backup impact (load, duration, scheduling), quantitative savings (for example, data deduplication), integration and catalog currency, and tips and tricks that are not covered in the product documentation. Using IBM Cloud® Object Storage and documenting how to use IBM Spectrum Protect to back up to the cloud. SAP HANA 2.0 SPS 05 has this feature that is built in natively. IBM Spectrum Protect for Enterprise Resource Planning (ERP) has this feature too. Documenting Linux ReaR to cover operating system (OS) backup because ReAR is used by most backup products, such as IBM Spectrum Protect and Symantec Endpoint Protection (SEP) to back up OSs. This publication targets technical readers including IT specialists, systems architects, brand specialists, sales teams, and anyone looking for a guide about how to implement the best options for SAP HANA backup and recovery on IBM Power Systems. Moreover, this publication provides documentation to transfer the how-to-skills to the technical teams and solution guidance to the sales team. This publication complements the documentation that is available at IBM Knowledge Center, and it aligns with the educational materials that are provided by IBM Garage™ for Systems Technical Education and Training.

ibm spectrum copy data management: *IBM Software-Defined Storage Guide* Larry Coyne, Joe Dain, Eric Forestier, Patrizia Guaitani, Robert Haas, Christopher D. Maestas, Antoine Maille, Tony Pearson, Brian Sherman, Christopher Vollmar, IBM Redbooks, 2018-07-21 Today, new business models in the marketplace coexist with traditional ones and their well-established IT architectures. They generate new business needs and new IT requirements that can only be satisfied by new service models and new technological approaches. These changes are reshaping traditional IT concepts. Cloud in its three main variants (Public, Hybrid, and Private) represents the major and most viable answer to those IT requirements, and software-defined infrastructure (SDI) is its major technological enabler. IBM® technology, with its rich and complete set of storage hardware and software products, supports SDI both in an open standard framework and in other vendors' environments. IBM services are able to deliver solutions to the customers with their extensive knowledge of the topic and the experiences gained in partnership with clients. This IBM Redpaper™ publication focuses on software-defined storage (SDS) and IBM Storage Systems product offerings for software-defined environments (SDEs). It also provides use case examples across various industries that cover different client needs, proposed solutions, and results. This paper can help you to understand current organizational capabilities and challenges, and to identify specific business objectives to be achieved by implementing an SDS solution in your enterprise.

ibm spectrum copy data management: Optimize the Value of Your Data with Oracle and IBM Flash Storage Solutions IBM, IBM Redbooks, 2020-05-15 In this multicloud and cognitive era, information continues to grow rapidly. By 2025, IDC says worldwide data will grow by 61% to 175 zettabytes, with as much of the data in data centers as in the cloud. IT environments with Oracle deployments will need to accommodate that data growth, including storing, copying, mirroring, and protecting the data. When IT budgets are constrained but data keeps growing, storage costs can consume more than their fair share of the IT budget. The leading-edge portfolio of storage solutions and essential technologies of IBM® can help organizations stay ahead of the information explosion. Designed with built-in efficiency, these solutions represent preferred practices that address the following main storage objectives for hybrid multicloud environments: Stop storing so much Store more with what you have. Move Oracle and related data to balance performance and efficiency IBM

offers true enterprise class storage support for Oracle deployments at a low total cost of ownership (TCO). With flash disk, tape, storage network hardware, consolidated management console, software-defined storage solutions, and security software, IBM can provide Oracle customers the full spectrum of products to meet their availability, retention, security, and compliance requirements.

ibm spectrum copy data management: IBM Storage Solutions for SAP Applications
Version 1.5 IBM, IBM Redbooks, 2020-07-21 This IBM® Redpaper™ publication is intended as an architecture and configuration guide to set up the IBM System Storage™ for the SAP HANA tailored data center integration (SAP HANA TDI) within a storage area network (SAN) environment. SAP HANA TDI allows the SAP customer to attach external storage to the SAP HANA server. The paper also describes the setup and configuration of SAP Landscape Management for SAP HANA systems on IBM infrastructure components: IBM Power Systems and IBM Storage based on IBM Spectrum® Virtualize. This document is written for IT technical specialists and architects with advanced skill levels on SUSE Linux Enterprise Server or Red Hat Enterprise Linux (RHEL) and IBM System Storage. This document provides the necessary information to select, verify, and connect IBM System Storage to the SAP HANA server through a Fibre Channel-based SAN. The recommendations in this Blueprint apply to single-node and scale-out configurations, and Intel and IBM Power based SAP HANA systems.

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ibm spectrum copy data management: IBM HyperSwap and Multi-site HA/DR for IBM FlashSystem A9000 and A9000R Bert Dufrasne, Francesco Anderloni, Roger Eriksson, Andrew Greenfield, Lisa Martinez, Stephen Solewin, Vadim Steckler, IBM Redbooks, 2021-11-15 IBM® HyperSwap® is the high availability (HA) solution that provides continuous data availability in case of hardware failure, power failure, connectivity failure, or disasters. The HyperSwap capability is available for IBM FlashSystem® A9000 and IBM FlashSystem A9000R, starting with software version 12.2.1. Version 12.3 introduces a function that combines HyperSwap and Asynchronous replication, which creates a solution that entails HA and Disaster Recovery (DR). One side of the HyperSwap pair has an active async link to the third system, and the other side has a standby link. Known as Multi-site HA/DR, this configuration provides HyperSwap active-active HA while keeping data mirrored to a third copy to ensure two levels of business continuity. This IBM Redpaper™ publication gives a broad understanding of the architecture, design, and implementation of HyperSwap and Multi-site HA/DR solution. It also discusses and illustrates various use cases pertaining to their use and functionality. This paper is intended for those users who want to deploy solutions that take advantage of HyperSwap and Multi-site HA/DR for FlashSystem A9000 and A9000R.

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ibm spectrum copy data management: IBM FlashSystem 9100 Product Guide Jon Herd, Tony Pacheco, IBM Redbooks, 2020-05-20 This IBM® Redbooks® Product Guide publication describes IBM FlashSystem® 9100 solution, which is a comprehensive, all-flash, and NVMe-enabled enterprise storage solution that delivers the full capabilities of IBM FlashCore® technology. In addition, it provides a rich set of software-defined storage (SDS) features, including data reduction and de-duplication, dynamic tiering, thin-provisioning, snapshots, cloning, replication, data copy

services, and IBM HyperSwap® for high availability (HA). Scale-out and scale-up configurations further enhance capacity and throughput for better availability.

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