IBM Spectrum Protect Plus

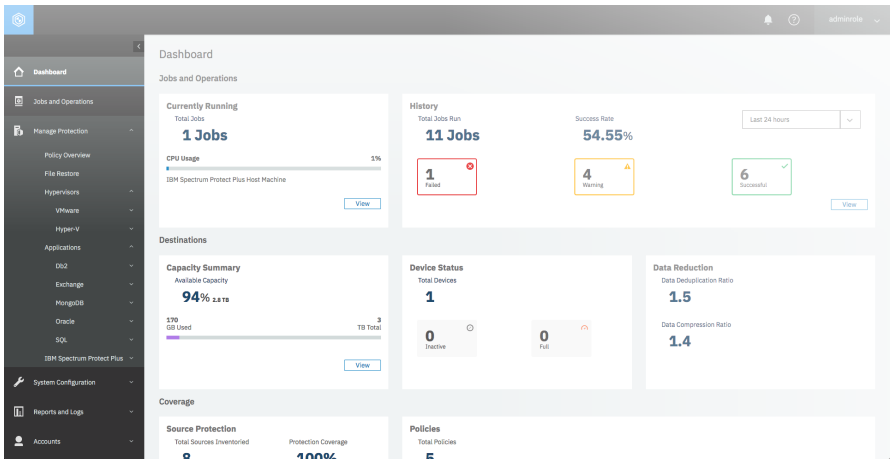
Simplified data resilience for VMs, databases, applications, file systems, SaaS workloads, and containers

Highlights

- Unified data resilience for physical, virtual, and containerized workloads
- Efficient protection for Microsoft 365, Exchange Online and OneDrive
- Streamline operations with an agentless architecture
- Simplify management with SLA-based policies and a centralized dashboard
- Enable secure self-service with RBAC
- Provide automated and efficient data reuse
- Protect databases hosted on-premises and in multiple different clouds
- Support cyber resilience with the ability to air-gap data on tape
- Utilize a proactive catalog and global search to quickly find data
- Automate and simplify backup administrative tasks with REST APIs

Organizations struggle with the cost and complexity of protecting data as they embrace digital transformation, manage massive data growth, and tackle the requirements of always-on services. Moreover, virtual machines (VMs) are ubiquitous and containerized workloads are becoming more prevalent.

Modern data resilience solutions explicitly designed to operate both on-premises and in the cloud have become essential. Data protection requirements have evolved from merely data backup and recovery solutions to a new data resilience approach that provides continuous access to data no matter where it resides while protecting critical information in the event of a system failure, human error, malicious behavior, or a natural disaster



The IBM Spectrum Protect Plus drilldown dashboard with built-inalerting provides timely status information.

IBM Spectrum Protect Plus is a data resilience solution that provides data protection, recovery, replication, and reuse for VMs, databases, applications, file systems, SaaS workloads, containers, and cloud environments.

The solution is easy to deploy as a virtual appliance or as a container application and the agentless architecture is easy to implement and maintain. SLAbased policies automate data protection processes, including operational backups, data replication and data retention. Role-based access control (RBAC) and application integration enable secure self-service to improve the speed and efficacy of analytics, development, and testing for those who need fast access to the right data.

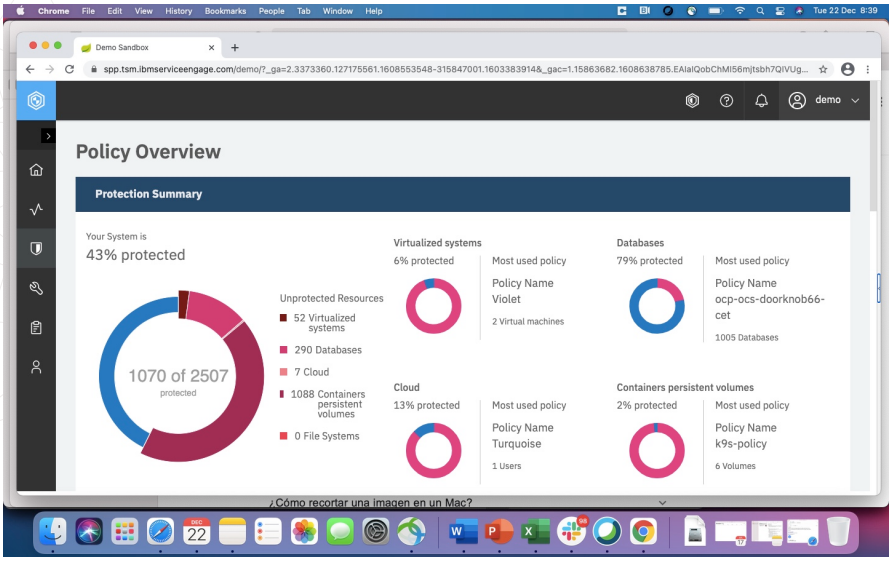
Cost-effective data retention and disaster recovery are achieved via data copy and archival to on-premises and cloud-based object storage, as well as to IBM Spectrum Protect managed storage including data archival to physical and virtual tape. Cyber resilience is also supported with object storage that utilizes write-once-read-many (WORM) technology and the ability to airgap data to tape via integration with IBM Spectrum Protect.

Management simplicity

IBM Spectrum Protect Plus provides automated, centrally scheduled, policy-managed backup capabilities for multiple workloads, including VMs, databases, applications, file systems, SaaS workloads, and containers.

To streamline ongoing operations, IBM Spectrum Protect Plus has a drill-down dashboard with built-in alerting that provides status information, such as a quick view of storage utilization and data protection status. Alerts are tied to the event log, so administrators are notified before potential issues become a real problem, such as when storage threshold limits are approaching.

IBM Spectrum Protect Plus RBAC enables secure, self-service and data reuse, and REST APIs help data owners and administrators easily streamline the monitoring, configuration, and automation of data protection processes by simplifying integration with third party applications and tools. This powerful combination improves DR testing, application development, reporting, and analytics.



Simplified management with SLA-based policies and a centralized dashboard

Comprehensive support for cloud-based workloads

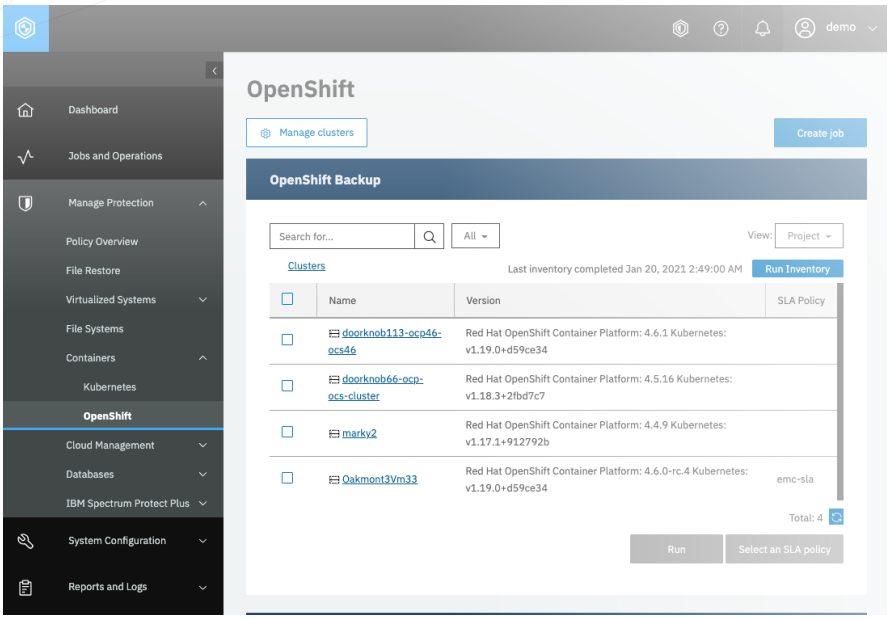
IBM Spectrum Protect Plus é uma solução suportada no IBM Cloud, AWS e Microsoft Azure Mercados. A solução pode ser totalmente implementada no IBM Cloud, AWS ou Microsoft Azure para uma experiência de proteção de dados “tudo na nuvem”. Em ambientes híbridos, os clientes podem proteger Cargas de trabalho do IBM Cloud, AWS e Microsoft Azure com IBM Spectrum Protect Plus Server implantado no local.

Cargas de trabalho compatíveis com IBM Cloud, AWS e Microsoft Azure incluem Microsoft Exchange, Sistema de arquivos e bancos de dados do Windows, incluindo Microsoft SQL Server, Oracle, IBM Db2 e MongoDB. Na AWS e na IBM Cloud, o IBM Spectrum Protect Plus também suporta cargas de trabalho em execução no VMware, e as instâncias do EC2 são suportadas na AWS.

Advanced container data protection

IBM Spectrum Protect Plus provides data resilience for containers running in Red Hat OpenShift and Kubernetes environments. IBM Spectrum Protect Plus’ native integration with Kubernetes and Red Hat OpenShift increases developer productivity and provides the ability to protect both persistent volumes (PVs) and Kubernetes resource meta-data (etcd) to ensure complete recovery. Its support for Red Hat OpenShift Container Storage Ceph RDB and CephFS CSI snapshots, combined with support for IBM Spectrum Fusion HCI, IBM Spectrum Scale and IBM Spectrum Virtualize CSI snapshots provides both container-ready and container-native storage support.

This solution provides deep integration with Kubernetes API's such as Container Storage Interface (CSI) snapshots as well as Red Hat OpenShift API Data Protection (OADP), providing comprehensive data protection for containerized environments. Users can apply SLA policies to clusters, namespace, and labels. Users can recover to the same or a different location. This capability supports disaster recovery and data reuse for development, testing, and analytics.



IBM Spectrum Protect Plus provides IBM Spectrum Protect Plus delivers native data protection for containers running in Red Hat OpenShift and Kubernetes environments.

Service Level Agreement (SLA) management includes policy definition and assignment from the IBM Spectrum Protect Plus user interface. Developers can use these policies to schedule persistent volume snapshots, replication to secondary sites, and to copy data to object storage or to IBM Spectrum Protect for secure long-term data retention.

In addition, IBM Spectrum Protect Plus integrates with IBM Cloud Pak for Multicloud Management (MCM) to provide seamless data resilience and application management.

Rapid data recovery

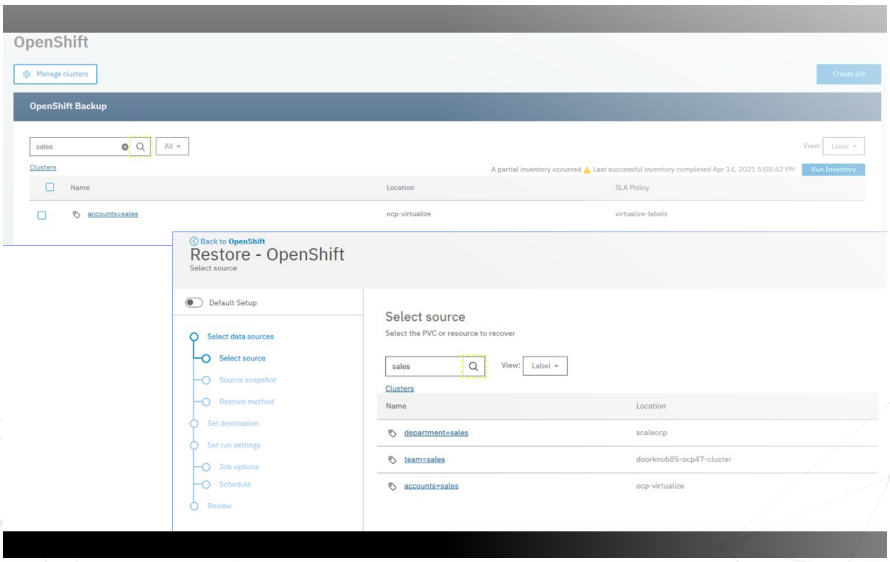
The IBM Spectrum Protect Plus proactive data resilience catalog and global search enables administrators to ensure they are protecting all the right data and quickly identify the data they want to recover across multiple VM hosts, file systems, hypervisors, applications and containers.

IBM Spectrum Protect Plus enables tremendous storage efficiency via snapshots, incremental forever technology, compression, and deduplication - and stores data in its native format. As a result, administrators can rapidly restore data and data owners have quick access to data copies.

IBM Spectrum Protect Plus provides application-consistent backup, rapid recovery, and efficient data reuse for application workloads, including Microsoft 365, and databases such as Microsoft SQL, Oracle, Db2, and MongoDB running on physical systems, virtual machines, and in IBM Cloud, Amazon Web Services (AWS) or Microsoft Azure. Users can also back up, recover, and reuse, data in Windows file systems, including file-level backup and recovery of physical and virtualized file servers.

In addition, IBM Spectrum Protect Plus supports Microsoft Exchange on-premises, including individual mailbox item-level restore. IBM Spectrum Protect Plus also provides backup and recovery for Microsoft Exchange Online and Microsoft OneDrive and helps ensure compliance by protecting and retaining Microsoft Office 365 mailboxes, calendars, contacts, and shared folders as part of an overall data protection solution.1

Developers building container-based applications can use IBM Spectrum Protect Plus' native integration with Red Hat OpenShift and Kubernetes to easily back up, replicate, retain, and recover persistent container volumes using CSI snapshots and predefined policies. IBM Spectrum Protect Plus' ability to protect both persistent volumes and Kubernetes resource metadata ensures complete recovery.



Backup and restore for label protection

An example of the importance of protecting Kubernetes resource metadata, is the ability to backup, recover and reuse logical persistent volume groupings using Kubernetes labels.

This capability is key because applications built using containers are logical groups of multiple components. For example, an app may have Mongo DB containers, a web service container, and middleware containers. If these application components share a common label, users can leverage the Kubernetes label feature to select the logical application grouping instead of picking individual persistent volumes that make up the application. Developers can also back up and recover logical persistent volumes associated with Kubernetes namespaces.

Cost-effective data retention

Cost-effective data retention is achieved via data copy and archival to both on-premises and cloud-based object storage, as well as IBM Spectrum Protect for data archival to physical tape.

Data copy options supported include cloud services (IBM Cloud Object Storage service, AWS, and Microsoft Azure), on-premises object storage (IBM Cloud Object Storage) and IBM Spectrum Protect. Administrators can also recover data from replicated backup repositories on AWS.

Administrators can achieve cost-effective data archival through integration with Amazon S3 Glacier, Azure Archive, and IBM Cloud Object Storage Archive. Cyber resilience support is enabled by locking down data on object storage using immutable WORM storage and airgapping data to tape via integration with IBM Spectrum Protect.

1 Support for Microsoft Office 365 applications requires a subscription license that is measured per protected Microsoft Office 365 user

Why IBM?

IBM data protection solutions offer a simplified user experience that helps deliver superior business outcomes. IBM is using applied analytics to make backup and storage management software more intelligent, so users can deliver global data availability. IBM continues to innovate, bringing first-to-market capabilities—built on a solid foundation of trusted technology—to increasingly complex backup and recovery environments.

For more information

To learn more about IBM Spectrum Protect, including platforms supported and system requirements, contact your IBM representative or IBM Business Partner, or visit:
partner.it.com.br/ibm-spectrum-protect-plus