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[Ibm Spectrum Scale Best Practices](#)  
 Best-practice recommendations for IBM Spectrum Scale RAID. This topic includes some best-practice recommendations for using IBM Spectrum Scale™ RAID. Planning a IBM Spectrum Scale RAID implementation requires consideration of the nature of the JBOD arrays being used, the required redundancy protection and usable disk capacity, the required spare capacity and maintenance strategy, and the ultimate GPFS™ file system configuration.

Best-practice recommendations for IBM Spectrum Scale RAID  
 IBM Spectrum Scale™ is used in clustered environments, provides unified access to data via file protocols (POSIX, NFS, and SMB)

and object protocols (Swift and S3), and supports analytic workloads via HDFS connectors. Deploying IBM Spectrum Scale and IBM Elastic Storage™ Server (IBM ESS) as a composable storage building block in a Genomics Next Generation Sequencing deployment offers key benefits of performance, scalability, analytics, and collaboration via multiple protocols.

[IBM Spectrum Scale Best Practices for Genomics Medicine ...](#)  
 It explains what it is and shows different ways for managing immutable and append-only files. It further provides guidance and best practices for configuring IBM Spectrum Scale in a secure manner. Finally this document demonstrates two typical use cases managing immutable files. One use case involves applications that manage file immutability and another use case presents a solution to automatically set files to immutable within a Spectrum Scale immutable fileset.

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 Spectrum Scale Policy Rules. Rule 's1' SET POOL 'images' LIMIT(94) WHERE NAME LIKE '%.jpg' OR NAME LIKE '%.mpg' Rule 's2' SET POOL 'data' LIMIT(92) Rule 's3' SET POOL 'oops' /\* default \*/ define([access\_days], [(CURRENT\_TIMESTAMP-ACCESS\_TIME> INTERVAL '\$1' DAYS)]) Rule 'm1' MIGRATE TO POOL 'cool' WHERE access\_days(14)

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 42 IBM Spectrum Scale Best Practices for Genomics Medicine Workloads. Apply the following settings in IBM Spectrum Scale if InfiniBand is used for the high-speed data network: mmchconfig maxFilesToCache=2M -N <protocol\_node\_class> mmchconfig maxMBpS=20000 -N <protocol\_node\_class> mmchconfig socketMaxListenConnections=8192 -N <protocol\_node\_class> mmchconfig envVar="MLX4\_USE\_MUTEX=1 MLX5\_SHUT\_UP\_BF=1 MLX5\_USE\_MUTEX=1" -N <protocol\_node\_class>.

[IBM Spectrum Scale Best Practices for Genomics Medicine ...](#)  
 IBM Systems Ubiquity Storage Volume Service with Spectrum Scale • Support native Spectrum Scale (POSIX) and CES NFS • Support 2 types of volumes: - Fileset volumes • Support optional quota and setting Linux userid/group permissions • Support both independent or dependent filesets - Lightweight volumes • Practically no limit • Implemented as individual subdirectories in a fileset • Current admin commands can set other features • Can map existing dirs/filesets into Volumes ...

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Spectrum Scale Best Practices by Olaf Weiser

Best practices to follow while applying ACLs in IBM Spectrum Scale. ACL best practices. It is essential to properly apply ACLs to the file systems, filesets, and exports, and directories and files to ensure smooth access for the users. Consider the following points before you create or copy data into the export:

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Best practices to follow while applying ACLs in IBM ...  
Spectrum Scale User Group (SSUG Digital) Spectrum Scale Expert Talk – Best Practices for Building a

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Why would you consider a stretched cluster built with Spectrum Scale, as opposed to one of the alternative approaches to high availability? How do stretched clusters work, and what considerations go into planning a successful stretched cluster? We will examine the theory behind Spectrum Scale stretched clusters, review some best practices for designing stretched clusters, and talk about a few ...

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Spectrum Scale - Stretched Cluster Design - IBM  
Best Practices for AFM DR; AFM DR use case This use case describes the AFM-based Asynchronous Disaster Recovery (AFM DR) process when NFS and SMB clients are mounted from the primary IBM Spectrum Scale cluster.

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AFM DR deployment considerations and best practices in IBM ...  
This IBM Redpaper™ publication describes the benefits and best practice recommendations of the use of IBM Spectrum Scale in OpenStack environments. It also describes the steps that are used to configure the storage infrastructure that uses IBM Spectrum Scale with various OpenStack components. The intended audience for this publication is technical decision makers, cloud architects, IT architects, and those readers who want to learn more about deploying an OpenStack cloud environment with ...

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IBM Spectrum Scale in an OpenStack Environment | IBM Redbooks  
This publication provides additional topics such as planning, usability, best practices, monitoring, problem determination, and so on. The main concept for this publication is to bring you up to date with the latest features and capabilities of IBM Spectrum Scale as the solution has become a key component of the reference architecture for ...

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• The Spectrum Scale Blueprint for Genomic Medicine Workload is optimized for the “Broad Institute GATK Best Practices on IBM reference architecture”. Though, most of the recommendations are generic and apply to other workloads. • The Spectrum Scale Blueprint for Genomic Medicine Workload uses IBM Spectrum LSF as workload scheduler.

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Spectrum Scale 4.1.1.2 compute6/ snmp node x86\_64, CentOS

7.1 Spectrum Scale 4.1.1.2 1x 6x 1x 1x 1x 6x Spectrum Scale admin/daemon-interface (IPoIB) Spectrum Scale data path (RDMA) daemon manager daemon manager compute1 x86\_64, CentOS 7.1 Spectrum Scale 4.1.1.2 compute2 x86\_64, CentOS 7.1 Spectrum Scale 4.1.1.2 1x 1x 6 x 60 x 6TB SAS Spectrum ...

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Best Practices for IBM Spectrum Scale: Announcing a new ...  
IBM Spectrum Scale Best Practices for Genomics Medicine Workloads: Authors: Joanna Wong, Kevin Gildea, Kumaran Rajaram, Luis Bolinches, Monica Lemay, Piyush Chaudhary, Sandeep R. Patil, Ulf...

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IBM Spectrum Scale Best Practices for Genomics Medicine ...  
IBM Spectrum Scale –Protocol Tribe –Ingo Meents - © 2020 IBM Corporation7. SMB Best Practices Revisited. Try to keep concurrent access to files low and number of files in a directory at a reasonable level. • sssd support • either already existing • Corporate policy • Red Hat recommendation.

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IBM Spectrum Scale File Protocols  
A: Well aside from the protocol difference block vs file, it depends on the type of connectivity you have to SAN vs network. Spectrum Scale has been placing more resiliency in recent releases for what to do for network behaviour (eg recently proactiveReconnect feature was added to Spectrum Scale).

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SSUG::Digital: Spectrum Scale Expert Talk – Best Practices ...  
Guanglei Li – IBM Spectrum Scale: Support update, common issues, best practice J D Zeeman – SSUG Singapore IBM Genomics Blueprint Jose Higino – An ESS implementation in a Tier 1 HPC Centre Maximising Performance – the NeSI Experience

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Presentations – Spectrum Scale User Group  
A number of presentations we had explained how Spectrum Scale can be leveraged for this type of workload, plus a few excellent Spectrum Scale best practice and broad view direction presentations plus an excellent number of presentations from IBM China Labs experts on new features and fixes.

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