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Spectrum Scale GUI overview

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Installation DemonstrationIBM

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Spectrum Scale Deployment: An

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Introduction ~~Hadoop HDFS vs
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Spectrum Scale at SC17 Object
Storage whiteboard IBM Storwize
V7000 Storage Virtualization
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*Scale 4.2.2- installer and
deployment* ~~Wayne Sawdon
speaks at IBM Spectrum Scale
Strategy Days~~

Spectrum Scale (GPFS) for
Hadoop Technical Introduction
(Part 1 of 2)

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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

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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.

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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)

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Genomics 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

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Sequencing deployment offers key benefits of performance, scalability, analytics, and collaboration via multiple protocols.

IBM Spectrum Scale Best

Page 15/49

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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

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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

Access PDF Ibm Spectrum Scale Best Practices For immutable within a Spectrum Scale immutable fileset.

IBM Spectrum Scale™
Immutability Introduction ...
Spectrum Scale Policy Rules. Rule
's1' SET POOL 'images' LIMIT(94)

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```
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
```

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Spectrum Scale Policy “Best
Practices”

42IBM Spectrum Scale Best
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Workloads. Apply the following

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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 socketMaxListenCon

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connections=8192 -N

<protocol_node_class>

mmchconfig

envVar="MLX4_USE_MUTEX=1

MLX5_SHUT_UP_BF=1

MLX5_USE_MUTEX=1" -N

<protocol_node_class>.

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IBM Spectrum Scale Best
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...

IBM Systems Ubiquity Storage
Volume Service with Spectrum
Scale • Support native Spectrum
Scale (POSIX) and CES NFS •

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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

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subdirectories in a fileset •

Current admin commands can set other features • Can map existing dirs/filesets into Volumes ...

Spectrum Scale Best Practices by
Olaf Weiser

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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

Access PDF Ibm Spectrum Scale Best Practices For points before you create or copy data into the export:

Best practices to follow while
applying ACLs in IBM ...
Spectrum Scale User Group
(SSUG Digital) Spectrum Scale

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IBM Spectrum Scale User Group
Expert Talk – Best Practices ...
Why would you consider a
stretched cluster built with

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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

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clusters, review some best
practices for designing stretched
clusters, and talk about a few ...

Spectrum Scale - Stretched
Cluster Design - IBM
Best Practices for AFM DR; AFM

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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

Access PDF Ibm Spectrum Scale Best Practices For 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

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makers, cloud architects, IT architects, and those readers who want to learn more about deploying an OpenStack cloud environment with ...

IBM Spectrum Scale in an

Page 34/49

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This publication provides additional topics such as planning, usability, best practices, monitoring, problem determination, and so on. The main concept for this publication

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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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Genomic Medicine
IBM Spectrum Scale (formerly
GPFS) | IBM Redbooks

- 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

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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

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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

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Lemay, Piyush Chaudhary,
Sandeep R. Patil, Ulf...

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IBM Spectrum Scale -Protocol

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Tribe – Ingo Meents - © 2020 IBM Corporation
7. 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

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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.

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Spectrum Scale has been placing more resiliency in recent releases for what to do for network behaviour (eg recently proactiveReconnet 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

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Presentations – Spectrum Scale
User Group

A number of presentations we
had explained how Spectrum

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Scale can be leveraged for this type of workload, plus a few excellent Spectrum Scale best practise 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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