

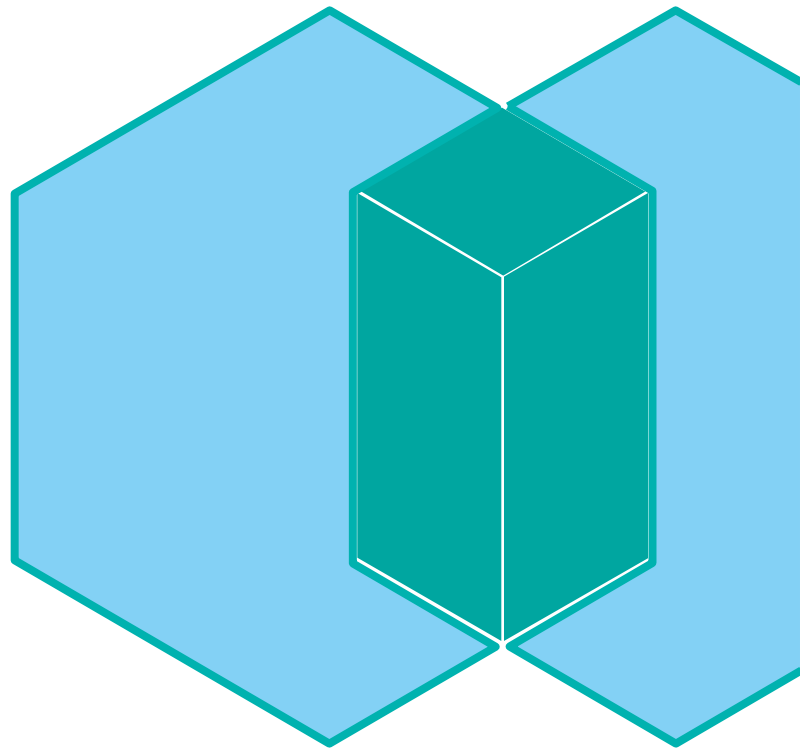


IBM Spectrum Scale

– AFM Discussion –

Spectrum Scale User Group Meeting 2016

Argonne National Labs, June 10, 2016 – Scott Fadden





Customer Feedback



“This makes migration easier with less downtime.”

"How can I tell a prefetch is progressing?"

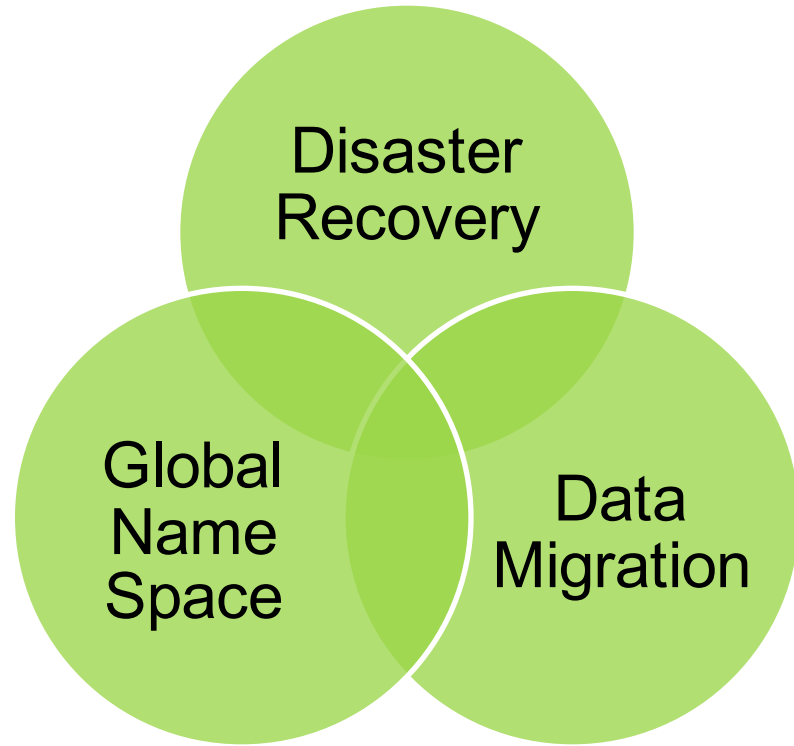
“Data from my legacy systems is accessible.”



“I can see the files no-matter what location they were created in”

“Can I have logging of what AFM has transferred?”

Most common use cases for AFM



Mapping gateways to NFS Servers

Create a Mapping

```
# mmadmconfig add mapping1 --export-map js22n01/hs22n18,js22n02/hs22n19
```

Create a fileset using these mappings

```
mmcrfileset gpfs1 iw1 -inode-space new -p afmmode=iw,afmtarget=mapping2://gpfs/home
```

Monitoring AFM

Tools

Mmafctl (getstate)

Mmpmon

Dstat

Mmfsadm dump afm

Examples:

```
echo afm_s | mmpmon -s -r 0 -d 2000  
DSTAT_GPFS_WHAT=vfs,afm dstat --gpfsops
```

Best Practices

Split prefetches into sets of less than 2 million files

Tune NFS then tune AFM

Use multiple filesets as basic Parallelization is by fileset

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