

Data Warehouse Community

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Tech Talk: How to add SAN storage to PureData Systems for Analytics

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How to add SAN storage to PDA system



Tech Talk

Considerations

Planning

- Maximum volume size

N1001: 16TB

Configuration

N200x/N3001: 300TB

Adding to Cluster

Demo

- Expected backup speed

1.0TB/hour

Q&A

Next Tech Talk



How to add SAN storage to PDA system



Tech Talk

Considerations

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Configuration

Adding to Cluster

Demo

Q&A

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- Each host needs an HBA
8Gb FC Dual-Port HBA (Emulex)
To check, run “external_storage_tool.pl san -b info”
- SAN administrator needs to share storage
To check, run “cat /proc/partitions”
- If storage is not visible, but link is up
N1001: reboot the host.
N200x/N3001: reboot the host, or re-scan (*)
 (*) use external_storage_tool.pl command



How to add SAN storage to PDA system



Tech Talk

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Configuration

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Demo

Q&A

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- Configure Multipath (optional)
 - update multipath.conf to blacklist the internal disks
 - start multipath service
- Configure LVM
 - create physical volumes (PV)
 - assign PVs to volume group (VG)
 - create volumes (LV)
- Create filesystem (optional)
 - mkfs file system on LVs



How to add SAN storage to PDA system



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Considerations

- Adding to the cluster is optional

Planning

Configuration

- Two options
part of NPS resource or separate resource

Adding to Cluster

Demo

Q&A

- Use `external_storage_tool.pl` command to add

Next Tech Talk

- No outage is required but recommend to take outage for a production system



How to add SAN storage to PDA system



Tech Talk

Considerations

Planning

Configuration

Adding to Cluster

Demo

Q&A

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- Check if HBA card is available
`external_storage_tool.pl san -b info`
- Create volumes
`pvcreate / vgcreate / lvcreate`
`pvs / vgs / lvs`
`vgchange -ay (passive node)`
- Add to cluster
`external_storage_tool.pl`



Questions?

Type your question in the
Q&A panel on your screen.

For more information

Web Site: IBM PureData System for Analytics

<http://www.ibm.com/software/data/puredata/analytics/system/>

Db2 Warehouse

<https://www.ibm.com/us-en/marketplace/db2-warehouse>

IBM Integrated Analytics System

<https://www.ibm.com/us-en/marketplace/integrated-analytics-system>

Blogs/Articles: IBM Big Data & Analytics Hub –

<http://www.ibmbigdatahub.com>

Community: Upcoming & On-Demand Webinars

<http://ibm.biz/dwwebinars>

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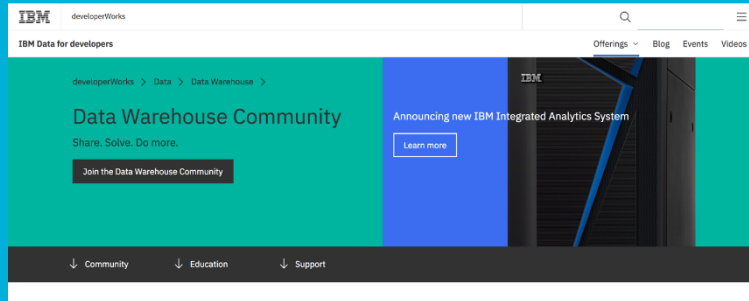
<https://www.ibm.com/support/fixcentral/>

**PureData System for Analytics
Support Page:**

http://ibm.biz/pda_support

IBM Knowledge Center – PureData:

http://ibm.biz/pda_knowledgecenter



Data Warehouse Community

<http://ibm.biz/dwcommunity.com>



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