

# Backups

Are you doing it right.

# Why

Retention - I need that data

Continuity - I need this service to run

Migration - I need to have a plan B

Boss said so - Why are you here...

# Methods

Images - I have unlimited funds....

Snapshots - Some day I will have time to sort....

Partition/LV - I hope I can recreate the server

SAN/NAS - I know what I am doing

Replication - My locations are fireproof

3rd Party - I know I am an idiot about backups

# Retention

The need to access data both current and historical. Size of data is not important as it all must be available within X working days.

# Continuity

Customer facing service needs to continue to run if we want to keep the lights on. Recovery time is very important.

# Migration

Lacking confidence in a solution, do backups first. Cover your butt maneuver that highlights a deficient lab environment.

# Hurdles

Funding - Who pays for extra hardware

Turnover - Keep the staff if everything is working

Training - Deleting on purpose is complex

Blame - Fear stops progress

Cheapskates - You know who you are!

# Software Solutions....

Mondoarchive, rsnapshot, backuppc, bacula, rsync, rdiff, tar, fogproject, nc, and many many more...

Searched Github - 10k+ results

# Services...

rsync.net, dropbox, aws, gce, and thousands of companies that want your money.

# Hardware

I could talk for days on this topic alone and have dealt with so many silly people that it would become more of a rant than discussion. Physical hardware will always break, it is just a matter of when, not how. We will leave hardware for another day or during a pizza consuming event over on Woodson.

# DO NOT DO THESE THINGS

Assume - Assume that you got everything

Expect - Expect that you are getting the truth

Skimp - Spend the money, not on EMC

Trust - Don't trust the salesman

Convolute - Can you explain to this room?

Will you get strange looks?

# DO THESE THINGS

Document - Your peers will trust you more

Storyboard - Creativity saves

Offsite - Geo-Replication is a thing

Stock - Have some spare hardware shelved

Monitor - Catch the failure like cancer

Print - Print out a "Go Book"

# Test

Bare metal test

Document network dependencies

Prove someone else can do it

Validate your restore (services started)

Schedule review sessions

Use printed “Go Book”

**It is common sense.**

Practise it, don't preach it. Find a peer in the industry and offer to test each others "Go Book". Learn more as the industry changes. Don't backup Linux Distro ISOs unless you have nothing better to do.

# Security

Encrypt your transports

Encrypt your data

Secure your infrastructure

Firemen don't care, they spray...

The Sun is a UPS, everything else is temporary

Pay the Internet bill....

# Thanks

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# Thoughts

Howto restore an old closed source backup?

What does faster networking gear cost?

What does RAIN mean?

Validate SSL, SOAP/REST APIs, MQ during?

**!!! Always Cross Train !!!**