

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 !!!