

# SAP HANA on Power MultiTier Replication and Cluster Scenarios

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HANA runs great IBM Power Systems. There are more than 1000 customers are enjoying performance, ras features and flexibility of HANA on Power!

Even in my country, I am doing multiple installations each quarter.

HANA offers native System Replication, which can be classified as a basic, no automated high availability option. Generally, a HANADB setup consist of two nodes and sync replication.

Some customers want to be on the safer side and a third tier. This extra tier is mostly in another site, acting like a disaster site with async replication.

Examples that I saw, and read includes configuration but no real life scenarios. Just install, setup stop HANA Database. It is even not a real crash. I need to break things:) See them working!

It is not enough for me; I need to see (with sample data) that the data is replicated. I need to see my data on the second node after I crash the first node.

This video blog is my HANA crash and check for data integrity adventure.

Part I

SAP HANA System Replication MultiTier Setup, Crash, Failover and Failback setup

<https://www.youtube.com/watch?v=8Aeu0r9prjs>

I like pacemaker, but I have very bad memories with my HANADB Clusters on Suse. Now, with stable versions, both HANADB resource agents and SuSE ocf scripts, it offers an acceptable, reliable solution for HA.

I could not find any examples with multitier cluster configurations, so did it for myself.

It is a 2 Node cluster setup with additional disaster site. (async replication). This is a typical setup with enterprise customers, which have multiple data centres and care for high availability targets.

Be careful with this setup, it is rather tricky.

Part II

SuSe Cluster with Disaster Site (MultiTier Setup) Crash, Failover and Failback setup

<https://www.youtube.com/watch?v=cqQtnvKKpQA>

Feel free to comment on youtube!

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