## **Accepted Manuscript**

Highly reliable architecture using the 80/20 rule in cloud computing datacenters

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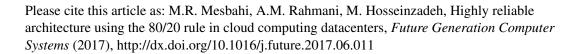
PII: S0167-739X(17)31239-6

DOI: http://dx.doi.org/10.1016/j.future.2017.06.011

Reference: FUTURE 3509

To appear in: Future Generation Computer Systems

Received date: 30 May 2016 Revised date: 14 May 2017 Accepted date: 13 June 2017



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#### ACCEPTED MANUSCRIPT

### \*Highlights (for review)

## Highlights

- A highly reliable cloud datacenter architecture is proposed.
- Cloud clusters are divided into two sub-clusters in terms of the 80/20 rule.
- The Google cluster-usage traces is analyzed for machine and job failures analysis.
- For machine reliability modeling in the Google cluster a Markov model is presented.
- Cloud jobs are divided into two general types in terms of the Pareto principle.

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