

Beaver: Practical Partial Snapshots for Distributed Cloud Services

Abstract Summary

This team of students developed a piece of software called Beaver for taking partial snapshots of systems in a cloud computing setting. This is a classic problem but they add to the field an algorithm that takes in to account external traffic that is not part of the system taking the snapshot. Beaver does not create large amounts of network bandwidth.

A high level overview of the algorithm is this: Beaver sets up a “Monolithic gateway overlay” to monitor internal and external before the data is processed. Each machine has a virtual and a direct IP address. The system uses software load balancers to map in between the two IPs.

Pros

Cons

- I thought that starting with an overview of how the algorithm works would make the paper more interesting and easier to follow.
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Further Developed

Other Comments