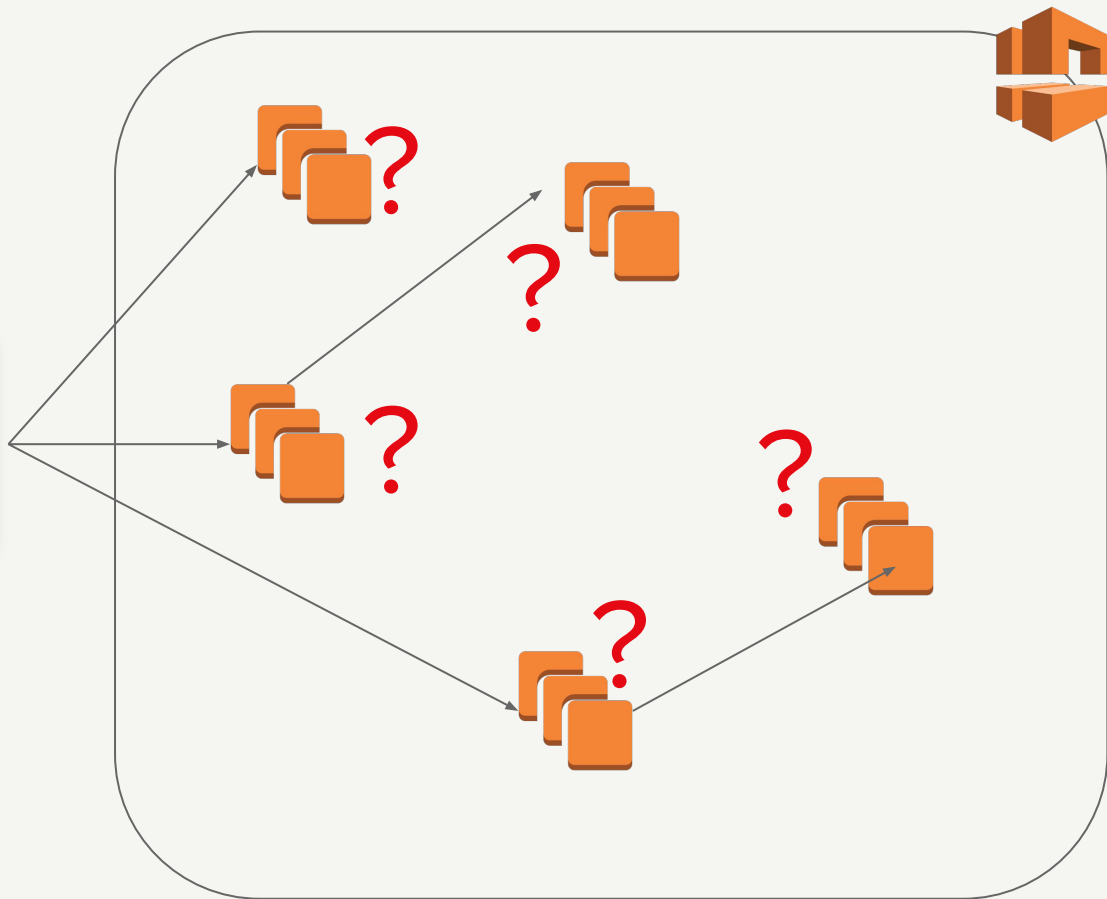


Diffy.



| A DIFFERENCING ENGINE
FOR DIGITAL FORENSICS

NETFLIX



Lack of Normal:

“Normal” varies.





Base AMI

≠



Production
Instance

Example IOCs:

- Log signature & response code
- File name, hash, and location



SSH

SSH



The Need for Speed:

Clusters **roll.**



SSH

SSH



Could we... **baseline**?



osquery



Functional baseline

- OSQuery binary installed
- Queries run, baseline obtained
- Results to ElasticSearch

How does Diffy build the functional baseline?

VM

Diffy

ElasticSearch

How does Diffy build the functional baseline?



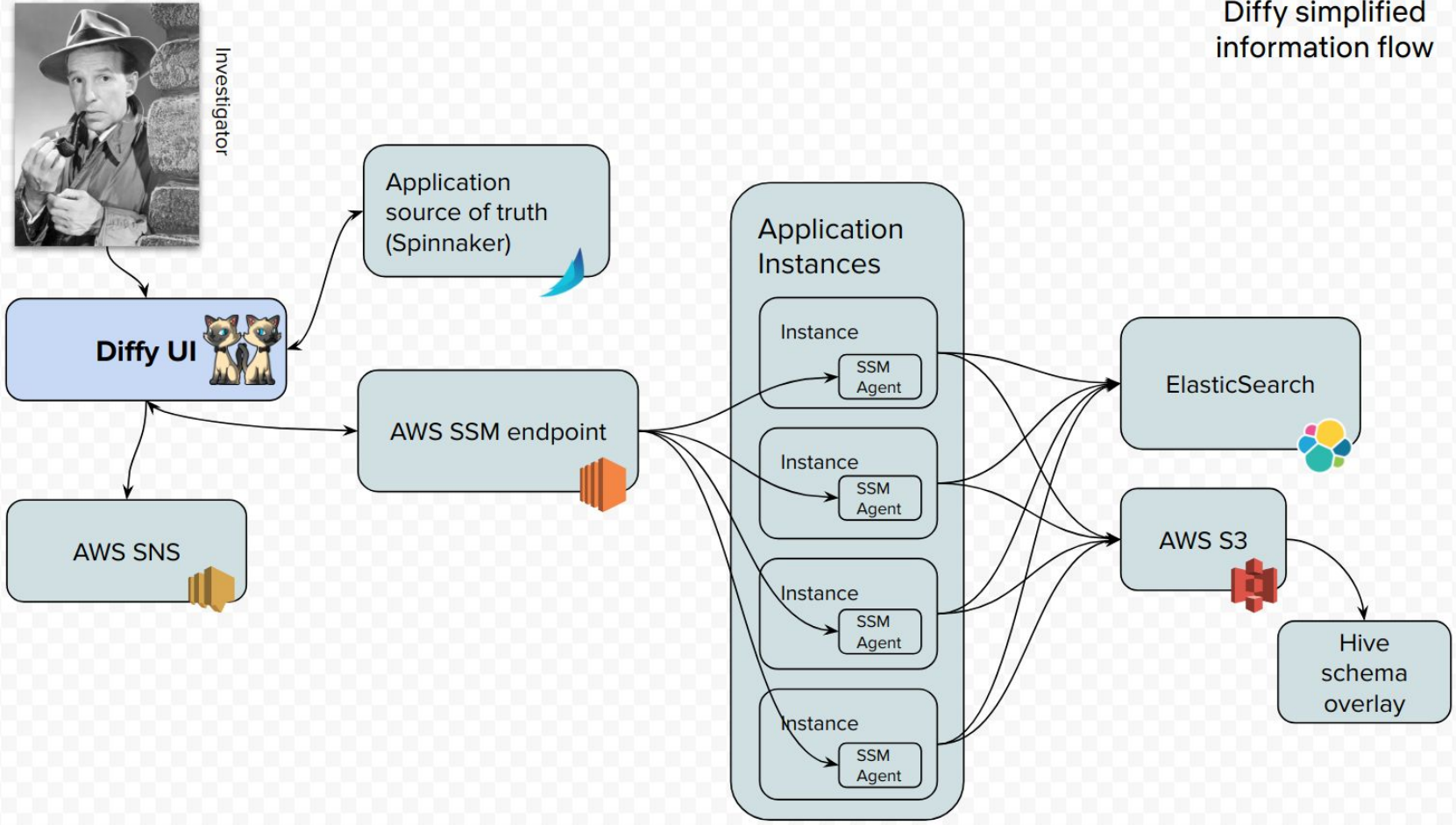
How does Diffy build the functional baseline?



How does Diffy build the functional baseline?



Diffy simplified
information flow



Clustering method

- OSQuery binary installed
- Queries run, observations obtained
- Results to Elasticsearch
- Clustering algorithm runs

Standing out from the pack

- Unexpected listening port?
- Missing iptables rule?

The future

- Differencing engine as a service
- Take better advantage of OSQuery
- Validating Diffy

Thank you.

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<https://github.com/Netflix-Skunkworks/diffy>

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