INTENTIONET

your network, exactly as you intended.

www.intentionet.com

Intentionet: Who are we?

Company

Founded: 2015

Headquarters: Seattle, WA

Funding: NSF, True Ventures, USAF

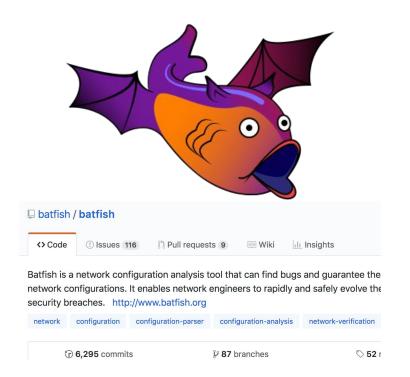


Mission

Eliminate network outages and breaches



What is Batfish?



A *pre-deployment change validation* solution

Started as a Microsoft Research project in 2012

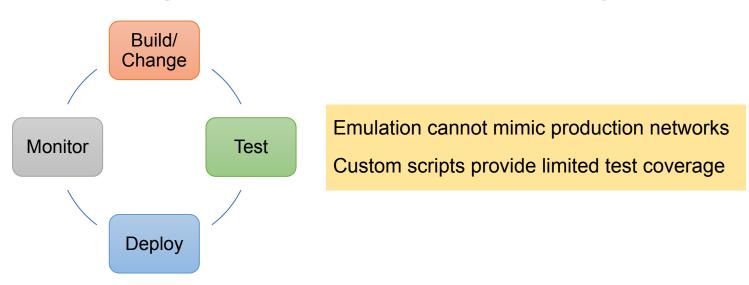
- Open sourced in 2014 (Apache 2.0)
- Contributors from Intentionet, BBN, Colgate University, Microsoft, Princeton, UCLA, USC, ...

Used by many Fortune 500 companies



Why Batfish?

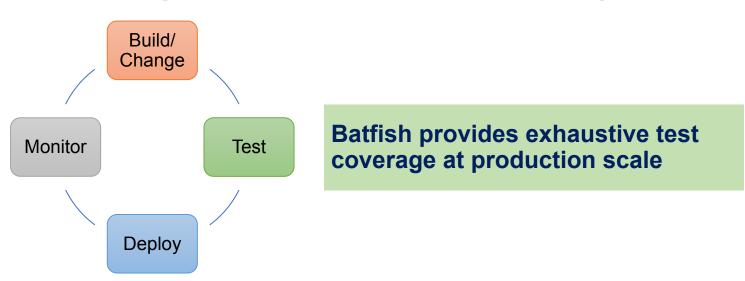
Testing is the weak link in network lifecycle





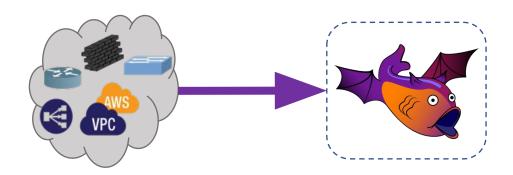
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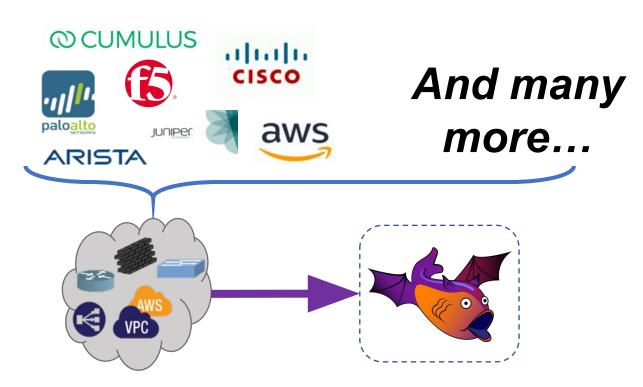


How it works?



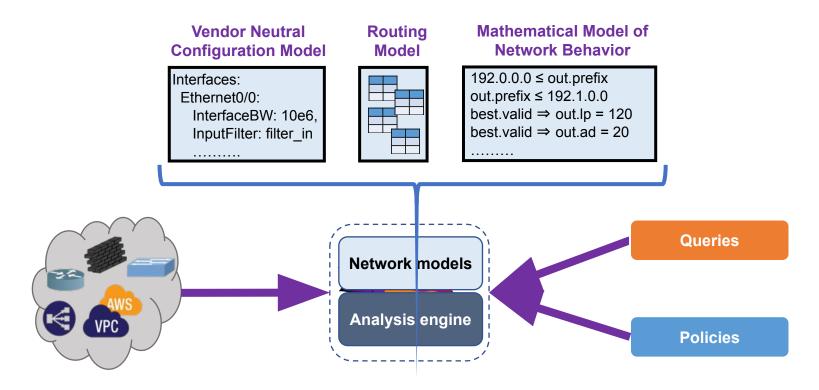


How it works?



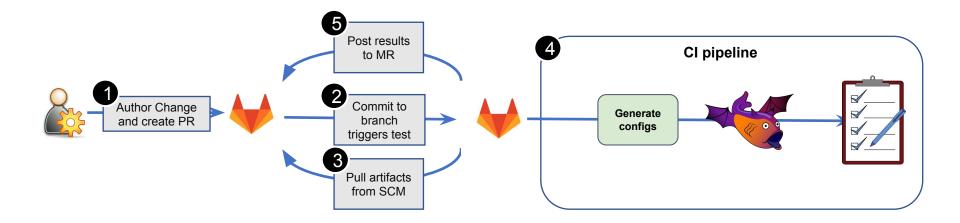


How it works?





DEMO





Batfish policies and queries

Configuration Audit



- Are all devices compliant with site standards?
- Are all protocol sessions (BGP, IPsec, MLAG, ...) compatible?

Route and Forwarding analysis



- Is my network redundant?
- What happens if I change this route policy?

Comprehensive Firewall/ACL analysis



- Is my firewall protecting sensitive services?
- What is the impact of this ACL change?

Comprehensive Reachability analysis



- Can any flow violate cross-site isolation?
- Is the DNS server accessible from anywhere?



How organizations are using Batfish



CI/CD: Ensure policy compliance before deployment



Change validation: Ensure correctness of changes



Design validation: Ensure that design has desired impact



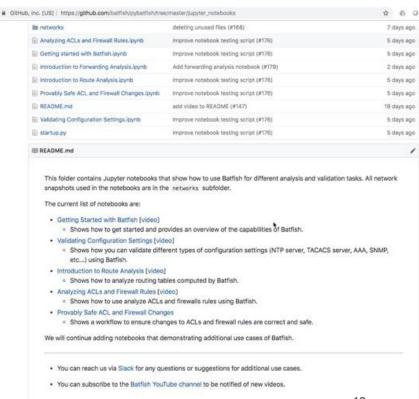
Getting Started with Batfish



Jupyter Notebooks



- https://www.github.com/batfish/pybatfish/tree/mast er/jupyter_notebooks
- Videos
 - https://www.youtube.com/c/intentionet
- Slack
 - Join Batfish Slack!





Summary

Build a secure and reliable network

Know before you deploy with Batfish



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