

Distributed OpenNetVM

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Scaling is Hard.



Scaling is Expensive.

Traditional Enterprise Network

| | |
|--|------------------|
| F5 BIG-IP 4200v (Firewall) | \$30,000 |
| Cisco Nexus 9000 (SDN Enabled Switch) | \$80,000 |
| F5 VE-10G (Load Balancer) | \$30,000 |
| Dell PowerEdge R930 | \$10,000 |
| Total Cost | \$160,000 |

NFV Network

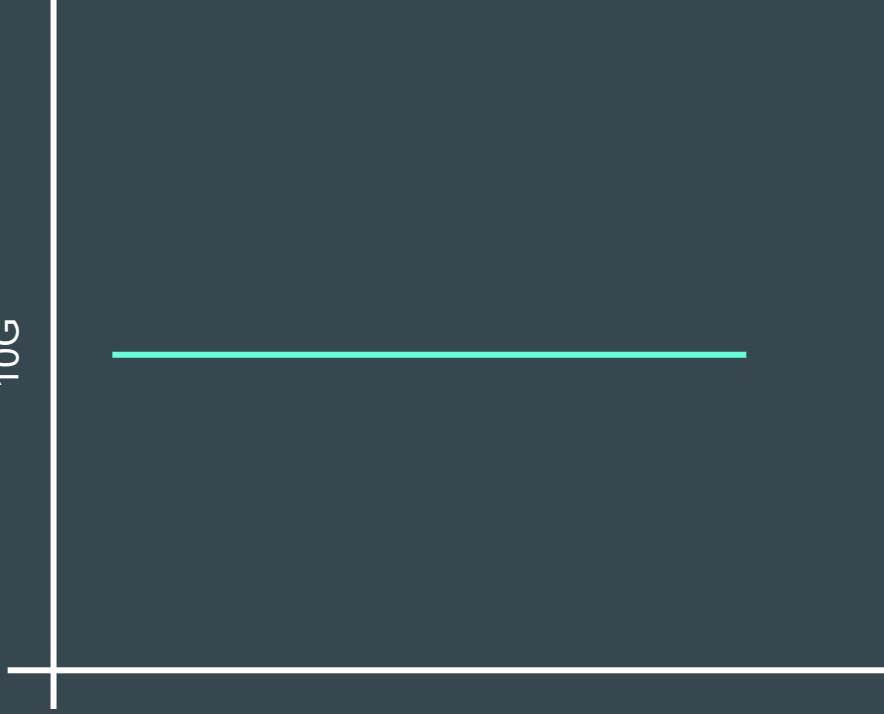
| | |
|--------------------------|-----------|
| Traditional Network Cost | |
| Total Cost | \$160,000 |

| | |
|-------------------------------------|---------|
| Dell PowerEdge R330 (5x) | \$1,000 |
| Intel x520 NIC (5x) | \$200 |
| Cisco Catalyst 4948 (10G Switch) | \$1,000 |
| Total Cost | \$7,000 |

No Performance Loss

Speed

10G



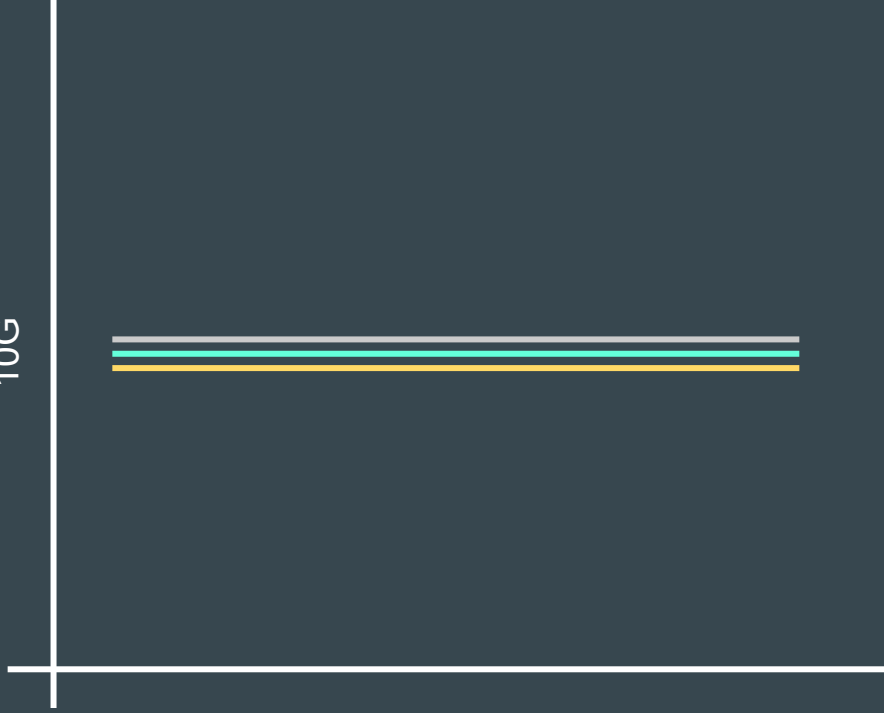
Speed

10G



Speed

10G



Scaling is Hard.

Scaling is Hard.

... So do it insta-magically!

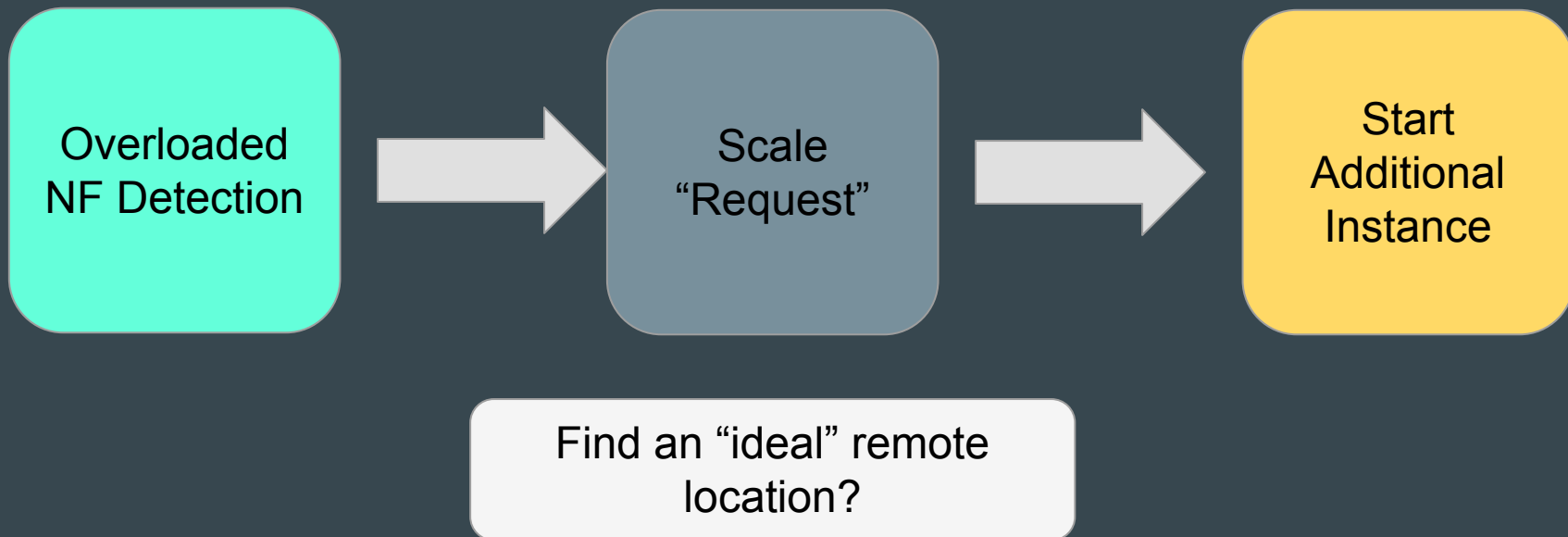
Data Stored in ZooKeeper

Running
ONVM
Instances

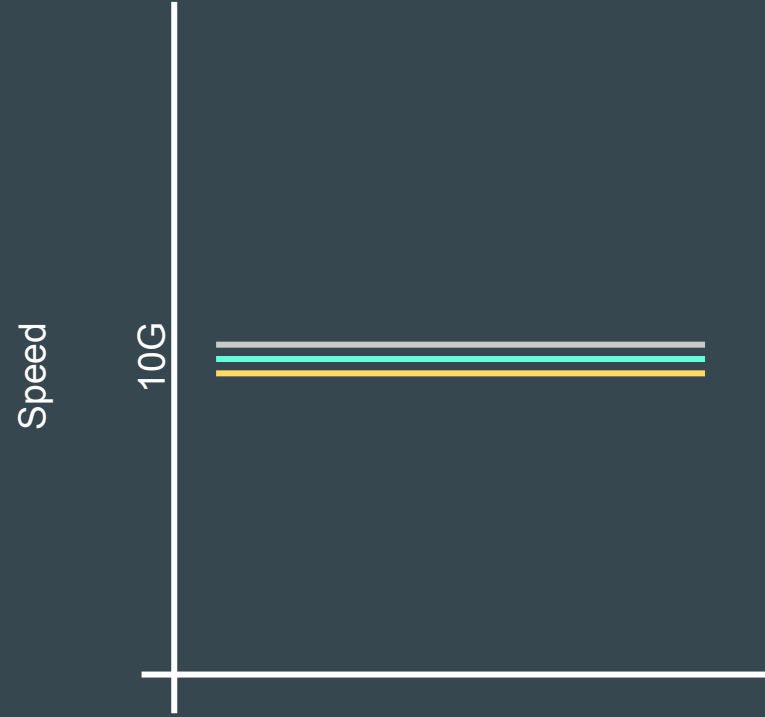
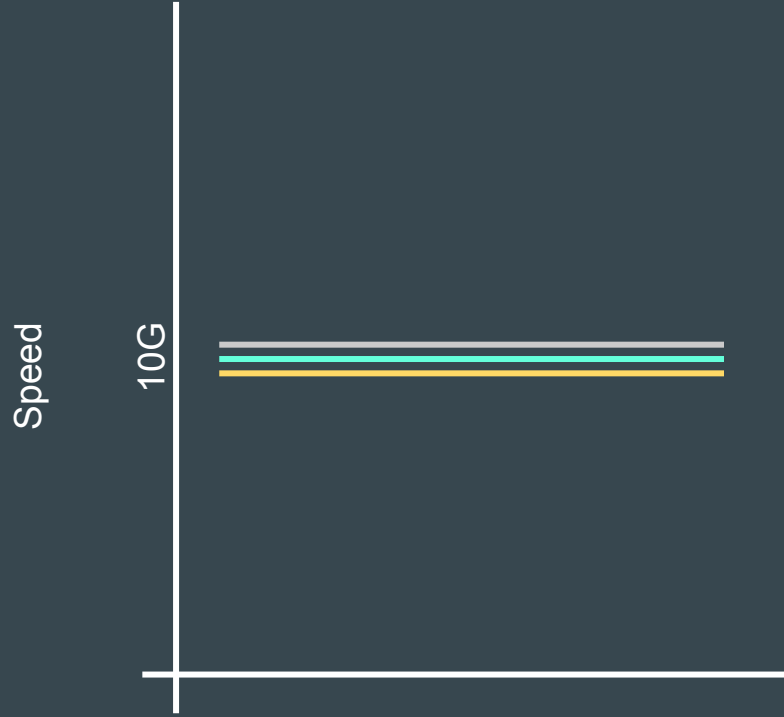
Service to
Instance Map

NF Instance
Stats

Auto-Scaling NFs



Demo Scaling



Scaling is Easy.

Scaling is Cheap.

Scaling is Easy.

Scaling is Cheap.

Scaling is Easy.

Scaling is Performant.

Distributed OpenNetVM

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Defy Conventional Wisdom