New Docker For Production

原力觉醒 势不可挡

Kay Yan
「DaoCloud」

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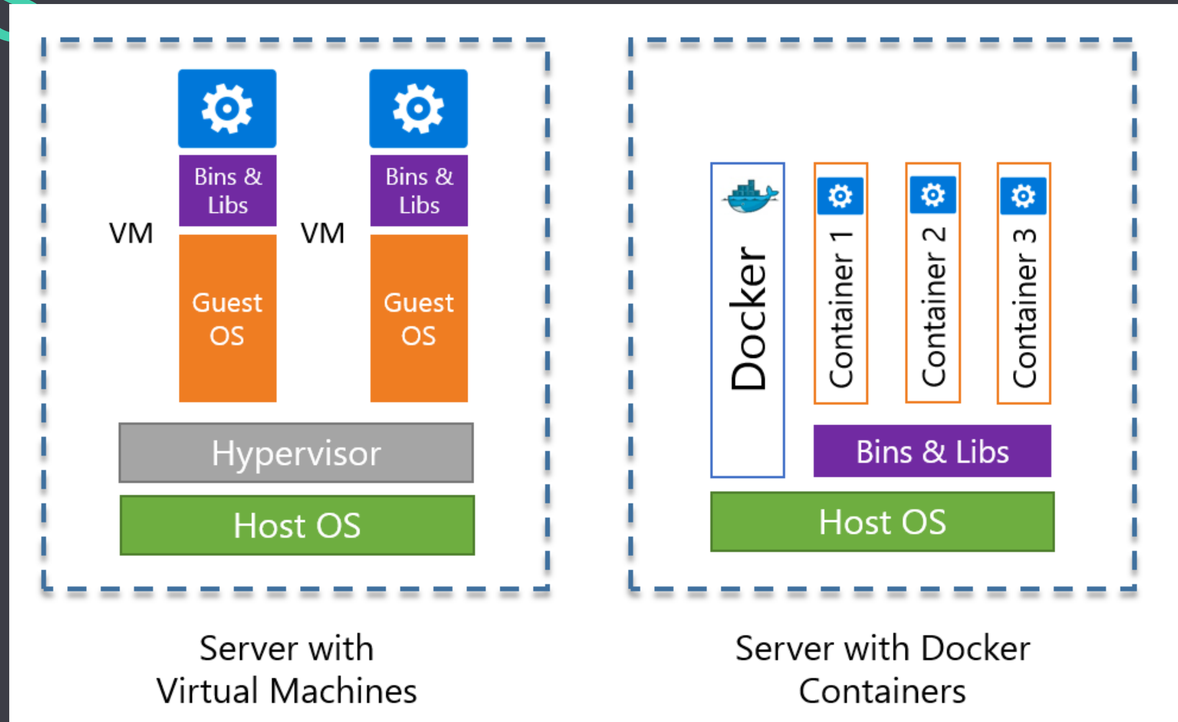
Docker Are Lite VMs



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Production Ready for 1.5 year

40%

Docker users already running in production

Portable & Quality

85% using Swarm & Compose
5X Real Docker adoption last year

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Docker Are **being** Converged

Apps Have Fundamentally Changed

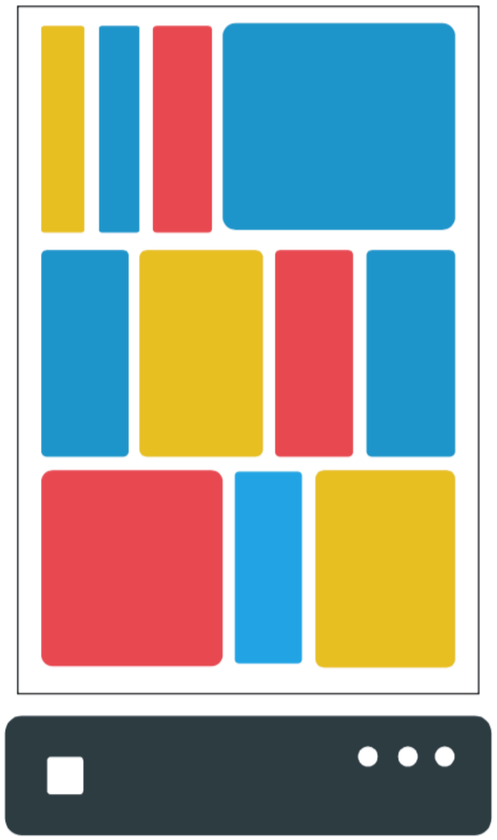
~2000

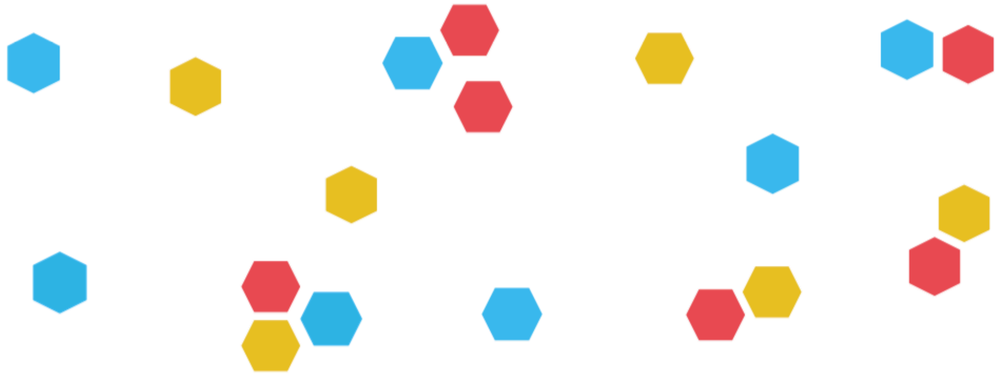
Today

Monolithic

Slow changing

Big Servers





Loosely Coupled Services

Rapidly updated

Many Small Servers

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超融合

Multihost Networking

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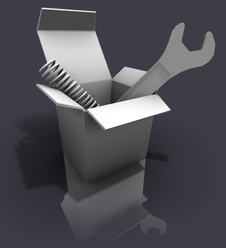
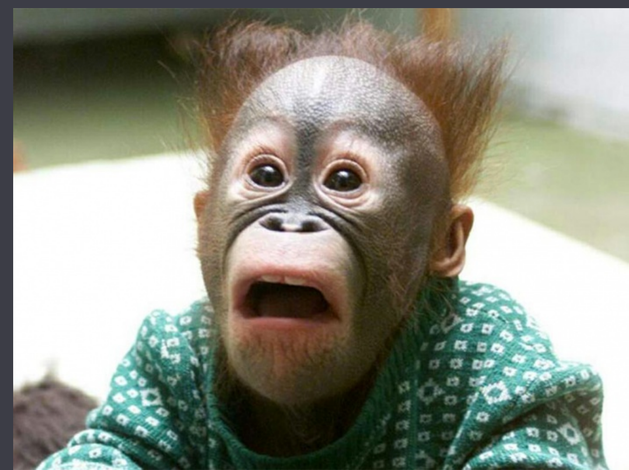


Out of Box overlay networking - SDN

Manage network as a top-level command

6

More than 6 implements today



Overlay Network

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Container-Container Network
IP address per container
Seamless, does not change the application code

What’s in Network

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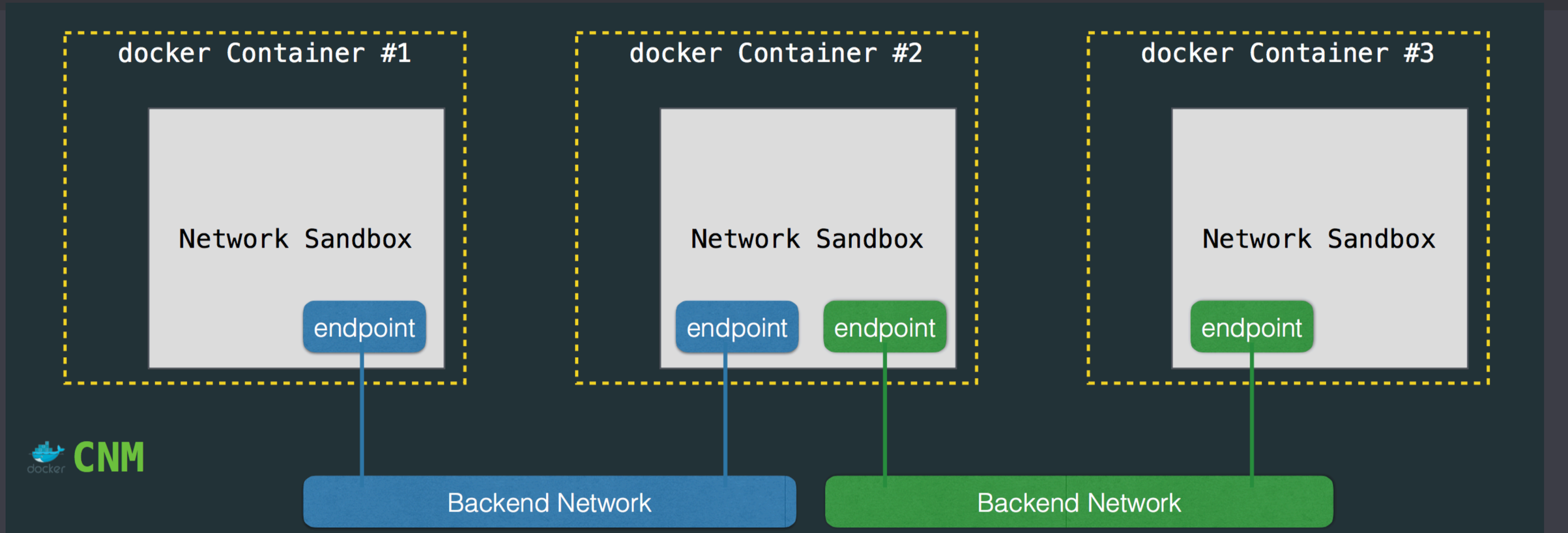

Network Sandbox
An isolated environment where the Networking configuration for a Docker Container lives.

Endpoint
A network interface that can be used for communication over a specific network. Endpoints join exactly one network and multiple endpoints can exist within a single Network Sandbox.

Network
A network is a uniquely identifiable group of endpoints that are able to communicate with each other. You could create a “Frontend” and “Backend” network and they would be completely isolated.

What’s in Network

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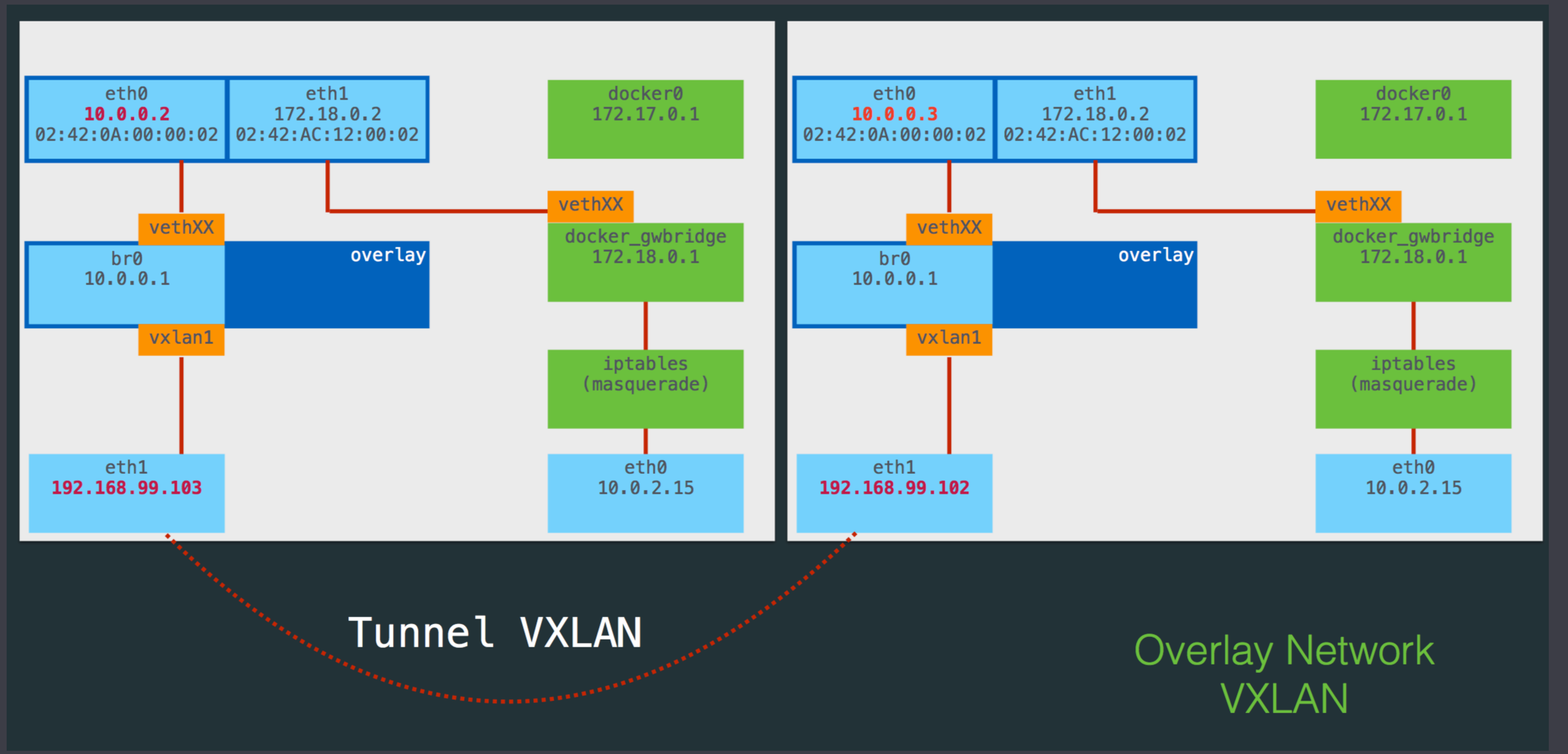

Network In Production

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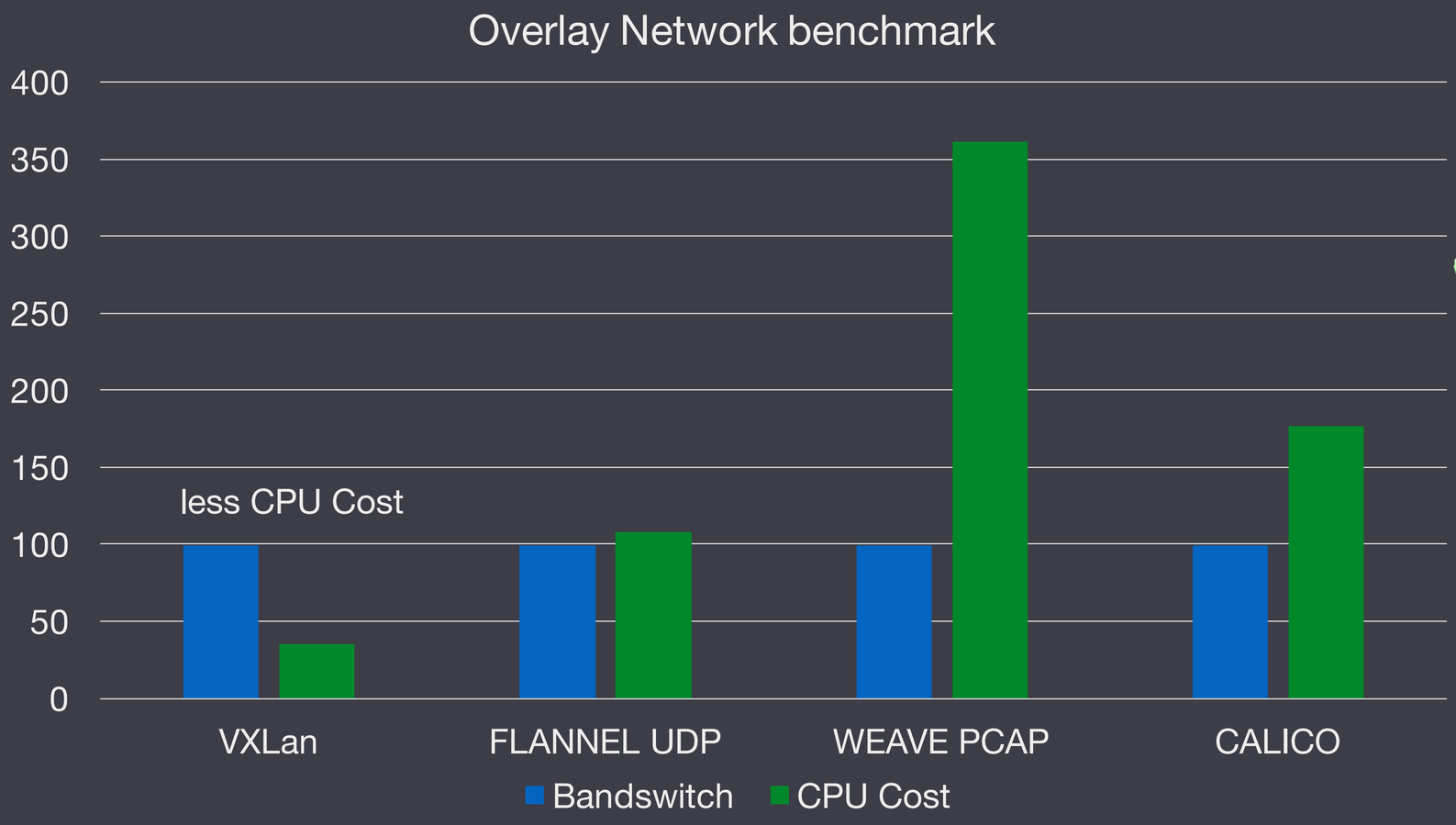

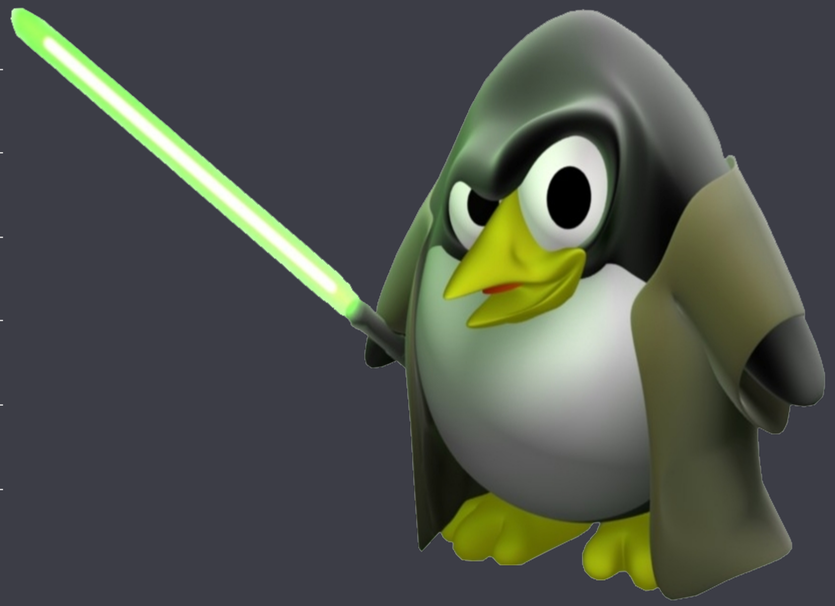

benchmark on AWS EC2

CISCO

vmware

Cluster OverView

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	Docker Native	*DCOS*	*Kubernetes*	*CoreOS*
Orchestration	✓	✓	✓	✓
Scheduler	✓	✓	✓	✓
Resource Allocation	✓	✓	✓	
Service Discovery	✓	✓	✓	
More than Containers	✓	✓		
Health Check	✓	✓	✓	✓
Storage clustering?	✓		✓	
Live Migration?	*Coming Soon*			

What’ s Next?

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More Platforms

- Official ARM Support
- Windows

Security

- Docker Content Trust
- Authz/Authn

Cluster

- Engine as a Single-Node Cluster
- Node discovery

Build

- ARG & Proxy Support
- Client Build

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Thank You!