

Deploy like it's the 1980s


verMan.io



Open-source cross-platform multicloud deploys with|without Docker

Simplifying—and futureproofing—software deployments.

Complexities 0/3



CLOUD NATIVE
LANDSCAPE

EXPLORE

GUIDE

STATS

Type / to search items

Filters

GROUP: Projects and products

VIEW MODE: Grid Card

ZOOM: - +

App Definition and Development

Application Definition & Image Build

CNCF GRADUATED

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CNCF INCUBATING


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KubeCon




CloudNativeCon


China 2025

June 10-11 | Hong Kong

#KubeCon #CloudNativeCon



KubeCon



CloudNativeCon

Japan 2025

June 16-17 | Tokyo, Japan

3

Complexities 1/3

Complexities 2/3

Certification

AWS Certified DevOps Engineer – Professional

Cisco Certified Network Associate (CCNA) Cloud

Cloud Security Alliance: Certificate of Cloud Security Knowledge (CCSK)

CompTIA Cloud+

Dell Technologies Cloud Architect Certification

Google Professional Cloud Architect

Huawei Certified ICT Expert – Cloud Computing

ISC2 Certified Cloud Security Professional (CCSP)

Microsoft Certified: Azure Solutions Architect Expert

Oracle Cloud Infrastructure Architect Associate

Red Hat Certified Specialist in Cloud Infrastructure

VMware Certified Professional – Cloud Management & Automation

Alibaba Cloud Certified Professional – Cloud Computing

Complexities 3/3

- [.] System administrator
- [.] Network administrator

- [.] CI/CD
- [.] MLOps engineer
- [.] GitOps

- [.] Platform engineer
- [.] Internal Development Platform (IDP) engineer

- [.] DevOps engineer

- [.] Site reliability engineer (SRE)

- [.] Internal developer tool engineer

- [.] PaaS

<https://github.com/SamuelMarks>

Samuel Marks.

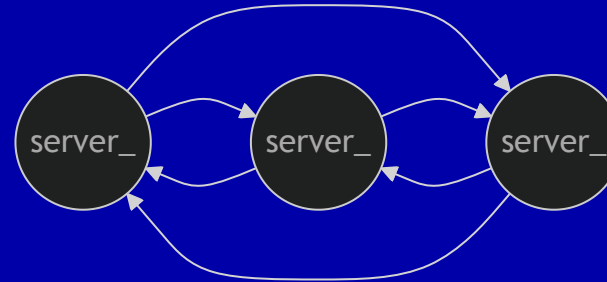
- [.] Research fellow at Harvard Medical School / MEEI
- [.] PhD from the University of Sydney
- [.] 800+ GitHub repos
- [.] 300+ of these sources not forks
- [.] top 10 contributor to Keras
- [.] Google Developer Expert for Machine Learning / Artificial Intelligence
- [.] 13+ years of software-engineering consulting experience

Architecture

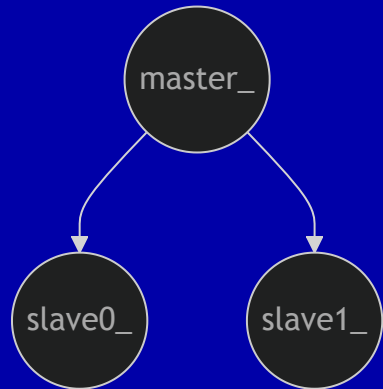
Single node



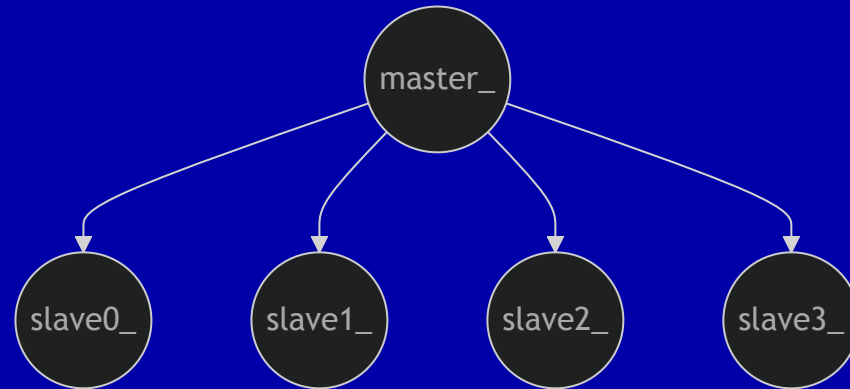
3 nodes [3n] (p2p)



3n (master / slave)



5n (cluster)



Deployment approaches

Adhoc

- [.] Always the most fun!

Image creation

- [.] Docker, OCI
- [.] VirtualBox, VMware, Hyper-V
- [.] AWS, Google Cloud, Azure
- [.] Other (WASM, unikernels)

Configuration management

- [.] Ansible
- [.] Puppet
- [.] Chef
- [.] Salt

Orchestrator (of images, containers, and/or jobs)

- [.] Slurm
- [.] Mesos
- [.] Kubernetes

Cross-platform

Cross-platform

[·] Docker

FACEPALM [HD]



More than cross-platform

Docker (Linux)

Linux (native)

macOS

Windows

iOS

Android

FreeBSD, OpenBSD, NetBSD

HP/UX

SunOS, Open Solaris, illumos

z/OS

DOS

OS/360

More than Docker

V • T • E				Virtualization software	[hide]
Comparison of platform virtualization software					
Hardware (hypervisors)	Native	Adeos • CP/CMS • Hyper-V • KVM (oVirt • KubeVirt) • LDomS / Oracle VM Server for SPARC • Logical partition (LPAR) • LynxSecure • PikeOS • Proxmox VE • QNX • SIMMON • VMware ESXi (VMware vSphere • vCloud) • VMware Infrastructure • Xen (XenServer • XCP-ng) • XtratuM • z/VM			
	Hosted	Specialized	Basilisk II • Bochs • Cooperative Linux • DOSBox • DOSEMU • PCem • 86Box • PikeOS • SheepShaver • SIMH • Windows on Windows (Virtual DOS machine) • Win4Lin		
		Independent	bhyve • Microsoft Virtual Server • Parallels Workstation (Extreme) • Parallels Desktop for Mac • Parallels Server for Mac • PearPC • QEMU • VirtualBox • Virtual Iron • Virtual PC • VMware Fusion • VMware Server • VMware Workstation (Player)		
		Tools	Ganeti • System Center Virtual Machine Manager • Virt-manager		
Operating system	OS containers		FreeBSD jail • iCore Virtual Accounts • Linux-VServer • Linux Containers • OpenVZ • Solaris Containers • Virtuozzo • Workload Partitions		
	Application containers		Docker • Podman • Imctfy • rkt		
	Virtual kernel architectures		Rump kernel • User-mode Linux • vkernel		
	Related kernel features		BrandZ • cgroups • chroot • namespaces • eBPF • seccomp		
	Orchestration		Amazon ECS • Kubernetes • OpenShift		
Desktop	Citrix Virtual Apps • Citrix Virtual Desktops • Remote Desktop Services • VMware Horizon				
Application	Ceedo • Citrix Virtual Apps • Dalvik • InstallFree • Microsoft App-V • Remote Desktop Services • Symantec Workspace Virtualization • Turbo • VMware ThinApp • ZeroVM				
Network	Distributed Overlay Virtual Ethernet (DOVE) • Ethernet VPN (EVPN) • NVGRE • Open vSwitch • Virtual security switch • Virtual Extensible LAN (VXLAN) • Generic Network Virtualization Encapsulation (GENEVE)				
See also	BlueStacks				

https://en.wikipedia.org/wiki/Comparison_of_platform_virtualization_software

Multicloud



More than multicloud

Amazon Web Services
(AWS)

Microsoft Azure

Google Cloud

IBM Cloud

Alibaba Cloud

Elastic Compute
Service (ECS)

Aurora Compute

Microsoft Azure
(ARM)

cloudscale.ch

CloudSigma

Apache CloudStack

DigitalOcean

Dimension Data (NTT
Ltd.)

Exoscale

Gandi.net

gridscale

Ikoula

Internet Solutions

Kamatera

libvirt

Maxihost

Nimbus

NTT America

NTT Communications
Cloud Infrastructure
Services

OnApp

OpenStack

Outscale

Outscale Inc.

Outscale SAS

OVHcloud

Rackspace

Scaleway

UpCloud

VMware vCloud

Vultr

37signals (honourable mention)

More than open-source

License: public domain



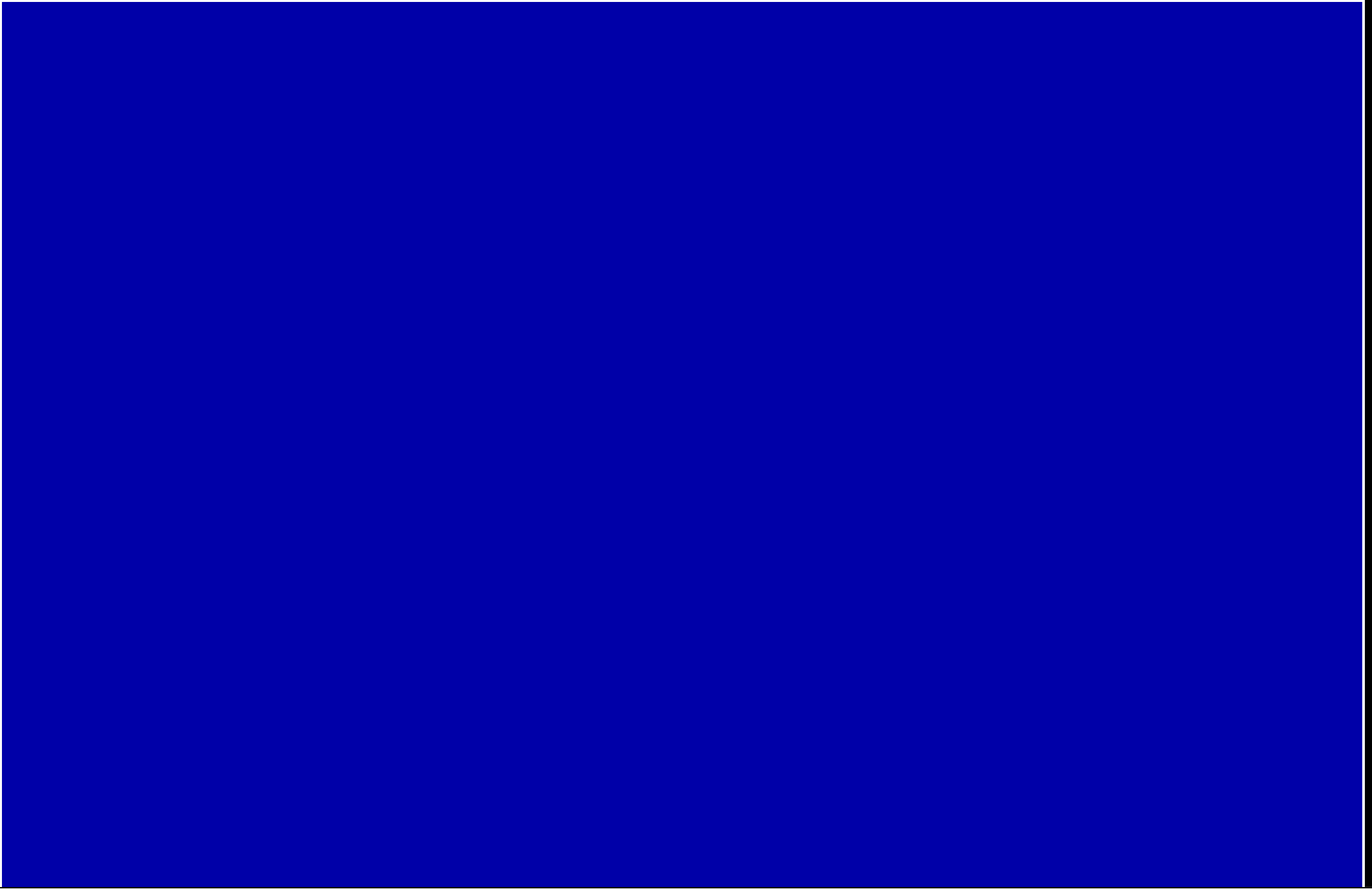
Website

<https://verMan.io>

Unique Value Proposition

- [.] 1-click deploy
- [.] 2-click multicloud deploy
- [.] Cross-platform
- [.] Documentation generation
- [.] Cloud / host agnostic

Website (embedded)



Revenue opportunities

- [.] create a new lift-and-shift software-engineering consultancy (to/fro mainframes and clouds)
- [.] selling to companies building atop kubernetes (to alternatively build atop agnostic tech);
- [.] enter the as-a-Service market, or provide whitelabel as-a-Service-as-a-Service:
 - [.] databases
 - [.] MLOps
 - [.] cpanel alternative
 - [.] full PaaS... or similar.

Conclusion

Roadmap

- 1** Now
Working version
- 2** +1 week
Telemetry (OpenTelemetry linked throughout; with multiple dashboarding and metric-gathering systems)
- 3** +2 weeks
Backups; more docs; more toolchains
- 4** +3 weeks
PaaS type functionality; GitOps
- 5** +4 weeks
More databases, toolchains, servers on more OSs and distributions

Questions?

Thank you for viewing & attending this presentation!

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[·] <https://github.com/SamuelMarks/libscript>

[·] <https://github.com/verman-io>