Oracle Linux Cloud Native Environment

A better alternative

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Safe Harbor Statement

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Cloud Native Can Deliver Benefits

- Faster time to market, better agility

- Modern

- Cost savings

- Easier application maintenance

- Vendor independence

A Complicated, Rapidly Evolving Technology Landscape
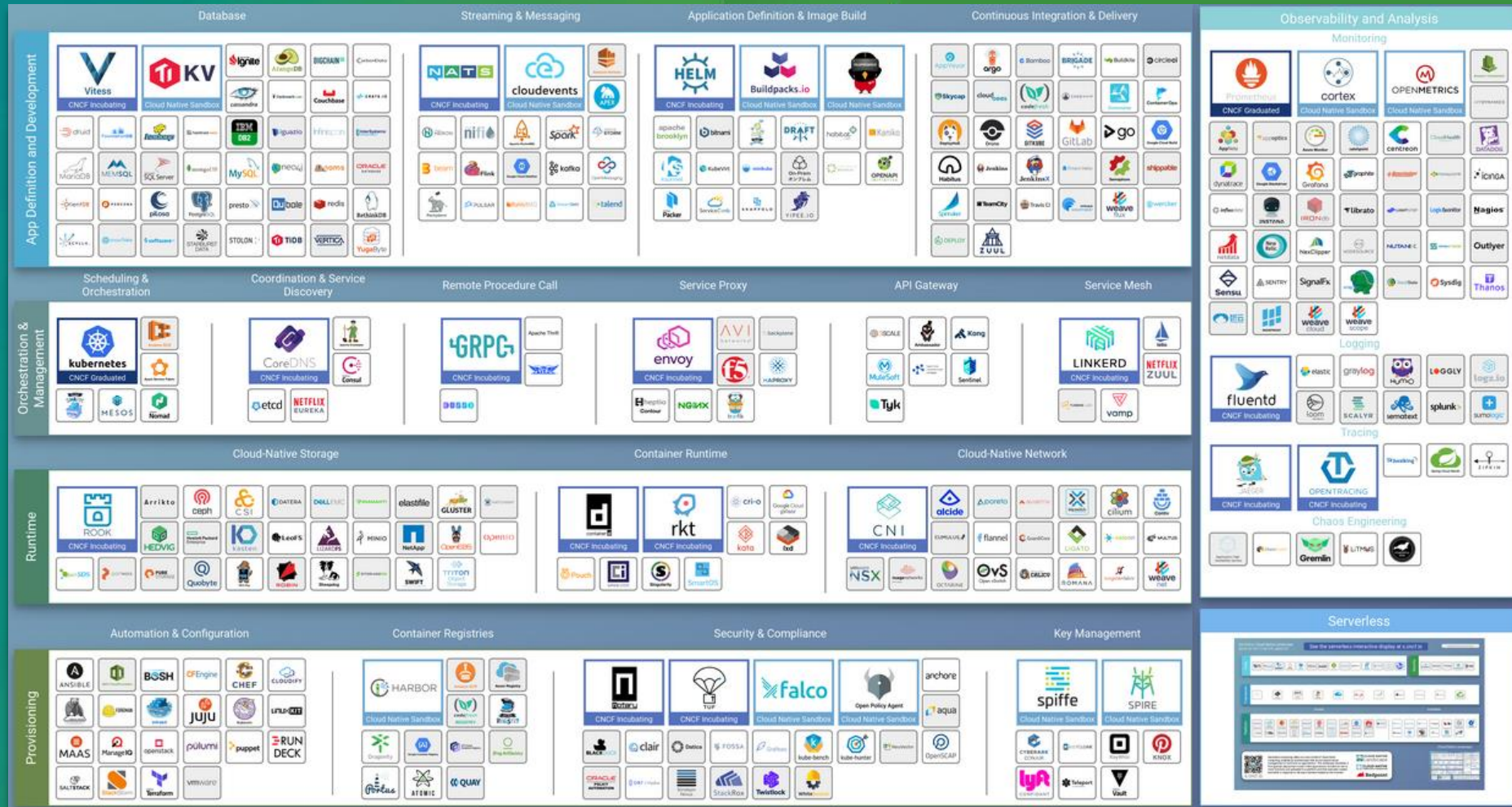
Source: Based on Cloud Native Computing Foundation Landscape, October 2018

It's Hard to Get the Best of Both Worlds

Build Your Own Environment from Pure Open Source

PROS
- Latest, greatest technology
- Run anywhere without being dependent on a vendor
- The tools are free

CONS
- A lot of effort required
- No enterprise support

Use a Vendor-Supplied Distribution

PROS
- Everything tested to work together
- Enterprise support

CONS
- Vendor lock-in
- Anywhere you want to go, you'll pay for the privilege
- Expensive

A Better Alternative: Oracle Linux Cloud Native Environment

- Suite of open source tools

- Tested to work together and be easy to deploy

- With enterprise-class support

- Additional deployment options

- For much less than other vendor alternatives

ORACLE

A CNCF-Compliant Curated Suite of Open Source Software

App Definition & Development

- Database
- Streaming & Messaging
- Application Definition & Image build
- Continuous Integration & Delivery

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A CNCF-Compliant Curated Suite of Open Source Software

App Definition & Development

Orchestration & Management

- Scheduling & Orchestration
- Coordination & Service Discovery
- Remote Procedure Call
- Service proxy
- API Gateway
- Service Mesh

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A CNCF-Compliant Curated Suite of Open Source Software

App Definition & Development

Orchestration & Management

Runtime

- Cloud-Native Storage
- Container Runtime
- Cloud-Native Network

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App Definition & Development

Orchestration & Management

Runtime

Provisioning

- Automation & Configuration
- Container Registries
- Security & Compliance
- Key Management

A CNCF-Compliant Curated Suite of Open Source Software

App Definition & Development

Orchestration & Management

Runtime

Provisioning

Observability & Analytics

- Monitoring
- Tracing
- Chaos Engineering

A CNCF-Compliant Curated Suite of Open Source Software

App Definition & Development

Orchestration & Management

Runtime

Provisioning

Observability & Analytics

Release Strategy and CNCF Alignment

Monitor CNCF projects → Preview in developer channel → Add to supported stack → Contribute improvements back to source project

Available Today

Container Infrastructure

- **Oracle Container Runtime for Docker**

- **Oracle Container Registry**

    – Oracle products as Docker images

- **Container Security with Ksplice**

    – Zero-downtime patching

Container Orchestration & Management

- **Oracle Container Services for use with Kubernetes**
  - Simplifies the configuration and setup of Kubernetes
  - Certified Kubernetes implementation by CNCF
  - Includes CoreDNS, etcd and Flannel

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In Preview

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New Container Runtime:

- **Oracle Container Runtime for Kata**

  - Lightweight virtual machines that feel and perform like containers

  - Provides the workload isolation and security advantages of VMs

  - Runs on multiple hypervisors and compatible with the OCI spec for containers

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Observability and Diagnostics

- **Prometheus monitoring system**
  - Powerful querying
  - Great visualization
  - Simple operation
  - Precise alerting

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Service Mesh

- **Istio**
  - open platform-independent service mesh
  - provides traffic management, policy enforcement, and telemetry collection.
  - reduces complexity of managing microservice deployments
  - uses an extended version of the Envoy proxy.

Enterprise Class
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support

ONE
engineering
team

140+
countries

Collaborative Support Tickets
Across All Oracle Products

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