KANTEC CONTINUUM · PLATFORM ENGINEERING

WHY OXIDE

Native cloud computing in your data centre.

The cloud computer you can own and operate. Hyperscale architecture, elasticity and developer velocity — on infrastructure under your control.

There is a growing problem inside almost every enterprise.

Boards and executives are under increasing pressure to modernise infrastructure, adopt AI, strengthen cyber posture, meet sovereignty requirements and control cost.

Yet for the majority of the world's IT workloads — roughly 85% — that still run on-premises, the choice has been a false one:

- Traditional on-premises infrastructure — ownership, but at a steep cost: multi-vendor complexity, brittle integrations, expensive licensing and slow time-to-value.
- Public cloud — speed and integration, but only as a rental: unpredictable bills, egress fees, governance gaps and lock-in.

Hyperscalers solved the scaling problem by building purpose-built rack-scale systems. That architecture stayed locked inside public cloud data centres. Until Oxide.

The question for executives is therefore changing from:

> *"Do we have infrastructure we can run?"*

to:

> *"Can we run cloud-native infrastructure we actually own — with the speed of the public cloud and the control of on-premises?"*

That distinction sits at the heart of Why Oxide.

A Simple Idea

Oxide delivers a commercial cloud computer: a fully integrated, rack-scale system designed true to cloud architecture that you purchase, own and operate in your own data centre or colocation facility.

Every layer — from the printed circuit board and root of trust through firmware, hypervisor, networking, storage and the control-plane APIs — is co-designed and delivered as one product. That is the only way to achieve genuine cloud architecture.

The result is not another server or hyperconverged appliance. It is an ability to answer a much more important question:

Is the organisation operating cloud-native infrastructure it controls — and can it prove the economics, security and operational model?

Why This Becomes Particularly Important Now

Consider an organisation that needs to:

- Run AI and data-intensive workloads where the data belongs — without egress fees or metered surprises.
- Meet sovereignty, regulatory or air-gap requirements.
- Repatriate steady-state or latency-sensitive workloads from public cloud.
- Give developers self-service velocity without multi-vendor operational tax.
- Replace expiring VMware or fragmented on-prem stacks with something coherent.

The strategy may be excellent. But the CEO should ask:

"How do we know we can actually do this — with cloud speed, on infrastructure we own?"

How do we know time-to-value will be hours, not months?

How do we know the economics are predictable?

How do we know the stack is verifiable from silicon up?

How do we know developers will get the experience they expect from public cloud?

How do we know we are not simply recreating multi-vendor complexity under a new name?

This is no longer simply an infrastructure question. It is a governance and operating-model question.

From Periodic Infrastructure to Continuous Cloud Ownership

The traditional on-premises model effectively asks:

"Do we have servers we can run?"

Oxide asks:

"Are we operating a cloud we own — right now?"

That sounds like a subtle distinction. It isn't. It changes the management model.

Traditional on-prem / public cloud	Oxide Cloud Computer
Multi-vendor complexity / perpetual rental	**Single integrated system you own**
Tickets and long lead times / self-service rental	**Self-service API, elastic, on-prem**
Per-core licensing / consumption + egress	**One-time purchase; software included**
Opaque firmware / limited visibility	**Hardware root of trust; open, auditable stack**
Weeks to months / minutes after account setup	**~2 hours from delivery to provisioning**
Commodity density / hyperscale internal only	**Hyperscale-class efficiency you can own**
"We believe"	**"We can demonstrate"**

The objective is not to eliminate public cloud or traditional infrastructure. It is to give organisations a third option: cloud architecture they can own.

The Board and Executive Conversation

Imagine replacing a long infrastructure status report with five questions.

1. **Are we operating infrastructure within our agreed risk, sovereignty and cost boundaries?**

2. **Where do we still depend on rental-only or multi-vendor complexity?**
3. **Can developers provision and operate with public-cloud velocity on assets we control?**
4. **Is the stack verifiable — from firmware to control plane?**
5. **What requires an executive decision on ownership versus rental?**

That is Why Oxide at executive level. The technology underneath becomes largely invisible.

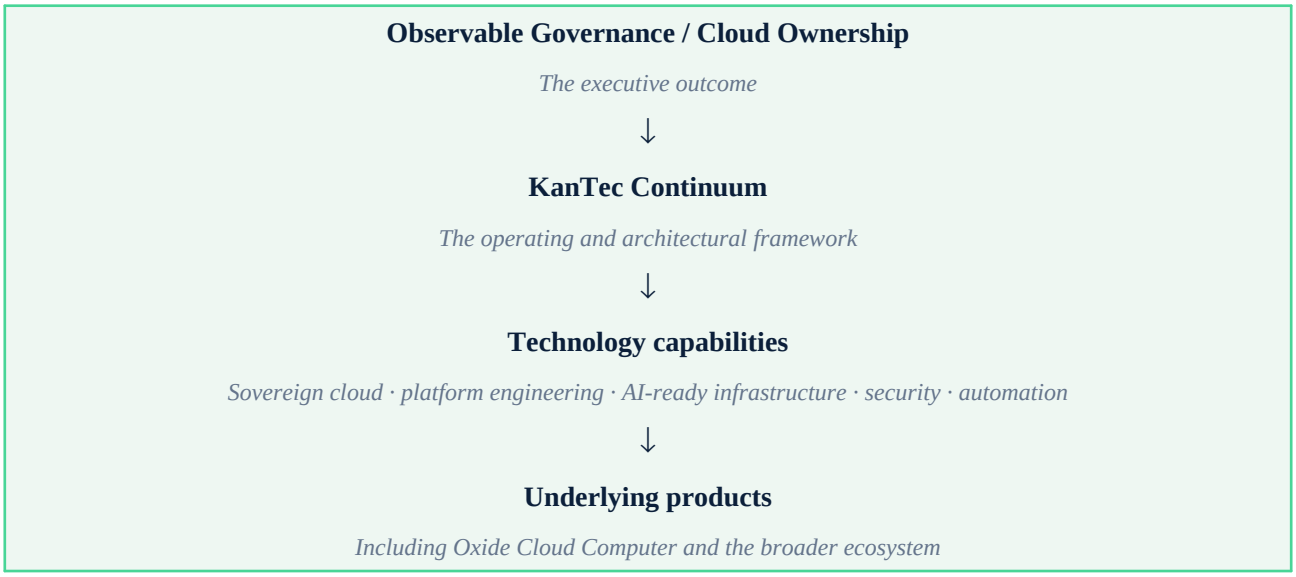
Executives see ownership, evidence, economics and decisions.

Where KanTec Fits

KanTec helps organisations make cloud ownership real — and governance observable.

KanTec Continuum becomes the enabling framework connecting governance intent with the technologies the organisation depends on. Oxide is a foundational capability within that stack: deterministic, rack-scale compute that delivers cloud-like operations on infrastructure you own.

The hierarchy becomes:



Questions CIOs should consider:

> *"You have committed to cloud-native operating models, AI adoption and cost control. How much of that still depends on infrastructure you do not own — or on stacks you cannot fully verify?"*

> *"What evidence reaches you today that on-premises capacity is as elastic and programmable as the public cloud you also use?"*

> *"If there is a gap between your sovereignty or cost policy and what is actually running, how quickly would you know — and how quickly could you act?"*

This is Why Oxide — and Why Observable Governance.

> *"Can you demonstrate that your technology estate can deliver public-cloud developer velocity on infrastructure the organisation owns and controls?"*

The CISO / Risk Conversation

> *“Can you demonstrate control effectiveness and supply-chain integrity rather than simply show that controls and vendors exist?”*

Oxide’s hardware root of trust, open-source firmware and end-to-end co-design create a different evidence base: verifiable from silicon to API.

The outcome is not simply a vendor list. It is an answer to:

“Are we within risk appetite — and can we prove it?”

The Real Product Is Confidence

Boards don’t really want another rack. They don’t particularly want another hypervisor. They certainly don’t want more dashboards. They want confidence.

Confidence that:

- infrastructure is owned where ownership matters;
- cloud-native velocity is available on-premises;
- economics are predictable;
- the stack is verifiable;
- developers can move at the speed of ideas;
- sovereignty and policy can be demonstrated;
- management can show all of the above.

Why Oxide turns that confidence from an assumption into a purchasable system.

The KanTec Executive Proposition

Governing thought

In a continuously changing technology environment, cloud capability can no longer be something you only rent. It must be something you can own.

1. Technology changes continuously. Static, multi-vendor on-prem stacks cannot provide continuous cloud velocity.

2. Governance establishes what should happen. Risk appetite, sovereignty and cost policies establish management intent.

3. Ownership establishes what you control. A cloud computer you purchase puts the architecture under your authority.

4. Oxide connects the two. It delivers hyperscale-style co-design as a product you can buy.

5. Management can then act. Exceptions, capacity and policy become visible inside an estate you own.

Which gives KanTec a very simple executive story:

Own → Operate → Observe → Prove → Improve

Executive Summary

If you were sitting opposite a CEO, CIO or CISO, I would say:

> *“Every organisation needs cloud-native capability. The problem is that cloud has been treated as a destination you rent, while the majority of workloads still need to live on infrastructure you control.”*

“We call the alternative a Cloud Computer — and Oxide is the first commercial one.”

“It means taking the elasticity, programmability and developer experience of the public cloud and delivering them on rack-scale infrastructure you purchase, own and operate.”

“So instead of asking whether you can afford to keep renting, management can ask: Are we operating cloud architecture we own today, where are the gaps, and what requires a decision?”

“KanTec Continuum provides the architecture that connects those layers — including Oxide as a foundational capability.”

Own the cloud. Observe the estate. Prove continuously.

Why Oxide

Know that you can own the cloud. Prove it in your data centre.

KanTec connects executive intent with operational reality — turning cloud architecture into something you can purchase, govern and continuously evidence.

This document is based on publicly available information from Oxide Computer Company and is intended as a KanTec Continuum executive briefing. Specifications and claims are subject to configuration and change; consult Oxide and KanTec for current details.