Cloud & AI Sovereignty Service

Powered by DAL Modern Private Cloud

Secure, Controlled, Vendor-Agnostic Private Cloud for Cloud and AI Workloads

- DAL's Cloud & AI Sovereignty Service helps organizations run critical applications, data platforms, APIs, digital services, and AI workloads in secure, controlled, and compliance-ready environments.
  At the center of the service is DAL Modern Private Cloud — a vendor-agnostic, datacenter-agnostic, and provider-agnostic private cloud platform designed to follow the client across locations, environments, and infrastructure choices.

The Sovereignty Imperative

Cloud and AI adoption is accelerating, but organizations now need more than scalability. They need control, portability, independence, and long-term operational freedom.
Common sovereignty requirements include:

- AI data protection and inference security
- Secure application modernization
- Secure access and identity governance
- Infrastructure portability
- Regulatory and audit readiness
- Data jurisdiction and residency
- Vendor dependency and platform lock-in
- Datacenter dependency
- Resilience and disaster recovery
- Cost predictability

Our Service

DAL provides a sovereign cloud and AI foundation that gives clients stronger control over where workloads run, how data is governed, and how infrastructure is operated.
The service supports:

- **Vendor-agnostic private cloud deployment**
- **Datacenter-agnostic infrastructure placement**
- **On-premises, hosted, and hybrid private cloud models**
- **Cloud extension across geographies**
- **Secure connectivity through Mesh VPN**
- **Software-defined networking and workload segmentation**
- **Kubernetes, pods, and container-based deployment**
- **Secure API and integration services**
- **LLM inference and AI-ready environments**
- **Backup, recovery, monitoring, and disaster recovery**

Layer 01

Client Workloads

Organizational applications, digital portals, onboarding systems, WhatsApp API services, internal business systems, mobile applications, AI assistants, and enterprise workflows.

Entry Point

Layer 02

Secure Access & Identity

Identity verification, authentication, authorization, encrypted access, role-based access control, Mesh VPN, and secure administrative access.

Governed

Layer 03

DAL Modern Private Cloud Platform

Vendor-agnostic private cloud with compute, storage, networking, Kubernetes, Mesh VPN, backup, and disaster recovery.

Core Platform

Cloud Services & Applications

Onboarding, WhatsApp API, workflows, enterprise apps, and ready containerized services.

API, Data & Integration

API gateway, integrations, messaging, caching, secrets, and controlled data services.

AI Workloads

LLM inference, private AI assistants, document intelligence, and controlled AI services.

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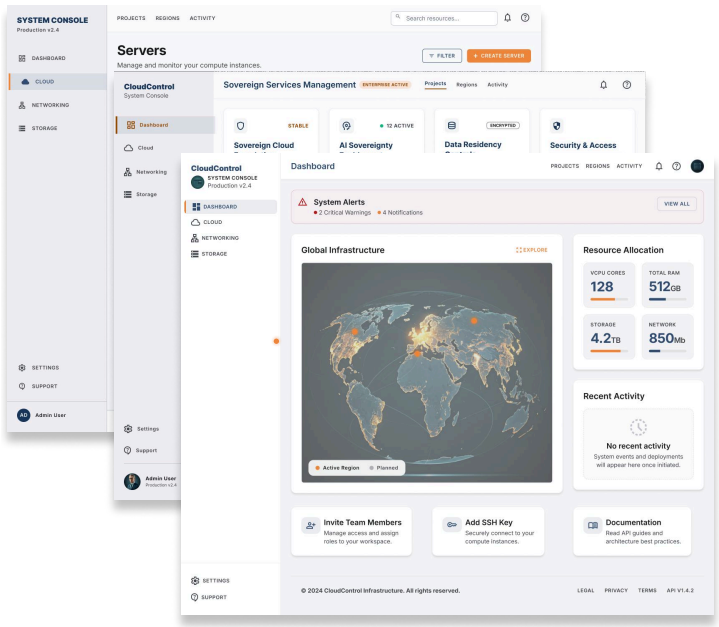
Core Capabilities

- **Vendor-Agnostic Private Cloud:** DAL Modern Private Cloud is designed to avoid dependency on a single cloud vendor, hardware provider, software stack, or datacenter operator.
- **Datacenter-Agnostic Deployment:** The platform can operate in the client's own datacenter, DAL-hosted environments, or approved third-party datacenters.
- **Cloud Extension Through Live Image Boot:** Designed to support distributed private cloud environments that can grow toward hundreds of thousands of compute cores.
- **Large-Scale Compute Capacity:** Identity management, airtight network segmentation, and advanced security policies to drastically reduce operational risk.
- **Hyper-Converged Private Cloud Foundation:** Identity management, airtight network segmentation, and advanced security policies to drastically reduce operational risk.



- **Kubernetes and Containerized Application Hosting:** Supports Kubernetes workloads, containers, pods, APIs, worker services, private container registry, and controlled image deployment.

Operational Safeguards

- **Secure Connectivity:** Mesh VPN provides protected connectivity between sites, nodes, administrators, and cloud services.
- **Network Segmentation:** Software-defined networking enables workload isolation, private communication, and policy-based traffic control.
- **Portable Cloud Operations:** The platform can move and extend with the client across infrastructure locations, reducing dependency on any single datacenter or provider.
- **Protected Service Exposure:** External services can be published through controlled ingress, API gateway, load balancing, and secure access paths.
- **Managed Operations:** DAL manages hosted and hybrid environments with monitoring, backup, security, and platform stability.
- **Backup and Recovery:** Backup, replication, and recovery capabilities help protect critical workloads and support business continuity.

Business Benefits

Vendor Independence: Avoid dependency on a single cloud provider, hardware vendor, or proprietary platform.

Datacenter Freedom: Run workloads in the client datacenter, DAL-hosted cloud, or approved third-party facilities.

Massive Scale Potential: Grow distributed private cloud capacity toward hundreds of thousands of compute cores while maintaining a consistent operating model.

Stronger Sovereignty: Maintain control over data location, infrastructure placement, access, and operations.

AI Readiness: Enable LLM inference, private AI assistants, and controlled AI workloads

Cost Predictability: Reduce exposure to hyperscaler pricing complexity, egress charges, and vendor lock-in.

Sovereignty in Action

How we partner with leading organizations to transform secure, and continuously optimize critical cloud and AI workloads.

Where We Excel at:

- Government digital platforms & portal hosting
- Regulated financial and transaction systems
- Enterprise private AI assistants & LLMs
- Highly secure internal enterprise networks
- Sensitive healthcare & patient data registries

Target Sectors:

- Public Sector & Government Agencies
- Healthcare and life sciences
- Large enterprises and multi-site organizations
- Banking, financial services, and insurance
- Defense, aerospace, and critical infrastructure
- Organizations adopting private AI, LLMs, containers, and Kubernetes

Our 5-Step Engagement Approach:

01 Assess

Review workloads, data sensitivity, infrastructure, AI needs, security, and compliance.

02 Define

Design the DAL Modern Private Cloud architecture, including SDN, Mesh VPN, Kubernetes, backup, DR, and AI readiness.

03 Extend

Boot DAL's live image on approved servers and extend the cloud to new locations.

04 Operate

Manage monitoring, backup, access, security, service operations, and platform support.

05 Optimize

Improve performance, security, resilience, cost, capacity, and workload placement.

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