

# Thales Centralized Data Controls and Security for Red Hat in Oracle Cloud Infrastructure (OCI)

Thales simplifies security and data privacy compliances for cloud-native development

[cpl.thalesgroup.com](http://cpl.thalesgroup.com)

Customers looking to develop and deploy cloud-native applications need to navigate an evolving terrain of security and data privacy regulations while minimizing costs. This is especially critical for organizations in industries with complex regulatory environments such as telecommunications, finance, and healthcare, as well as organizations operating across multiple jurisdictions. These large, regulated customers have depended on Oracle and Red Hat for years. In the cloud native world, these same organizations are looking to Oracle and Red Hat for their development needs by using Red Hat OpenShift on Oracle Cloud Infrastructure. As the market leader in data security, and partner to both Oracle and Red Hat, Thales' similarly long history for securing data for large enterprise customers make it the trusted security vendor for any organization in a regulated industry.

Thales CipherTrust Data Security Platform (CDSF) secures sensitive data across both Red Hat OpenShift and OCI platforms and centralizes its management in one single administration console.

The Thales CipherTrust solution offers a unified approach to data security and encompasses several legacy on-prem and forward-looking cloud native use cases to help organizations more readily comply with privacy regulations and mandates while lowering overall operational costs.

## Data Protection Offerings for Joint Customers

Thales addresses these concerns with the CipherTrust Data Security Platform (CDSF), an integrated suite of data-centric security solutions that significantly reduces business risk and simplifies data security administration across on premises and cloud environments.

### Protect Encryption Keys

Customers can readily protect certificates and their associated encryption keys by using Thales CipherTrust Manager. This key management solution simplifies the management of encryption keys throughout the entire lifecycle, including generation, backup/restore, clustering, deactivation, and deletion. Additionally, IT Teams can also leverage the Thales CipherTrust Ansible collection, to perform configurations faster and more efficiently. Red Hat Ansible Automation Platform is an end-to-end automation platform to configure systems, deploy software, and orchestrate advanced workflows. It includes resources to create, manage, and scale across the entire enterprise. This enables Dev Teams already using Ansible for their infrastructure deployment to more easily and securely manage keys from a centralized console.

### Ensure External Key Management

Customers can leverage the CipherTrust Cloud Key Management (CCKM) solution to accelerate the move of sensitive Red Hat OpenShift data into OCI by storing the key in a location that is different than the encrypted data. This "Hold Your Own Key" (HYOK) ability enables customers to maintain the same process for managing and controlling encryption keys, whether those keys are used on premises or in OCI cloud deployments. Customers can store and manage their encryption keys outside OCI in a virtual or physical appliance that is entirely under their control. Customers can also

localize their encryption keys wherever they choose to maintain control of their encrypted data in cloud environments.

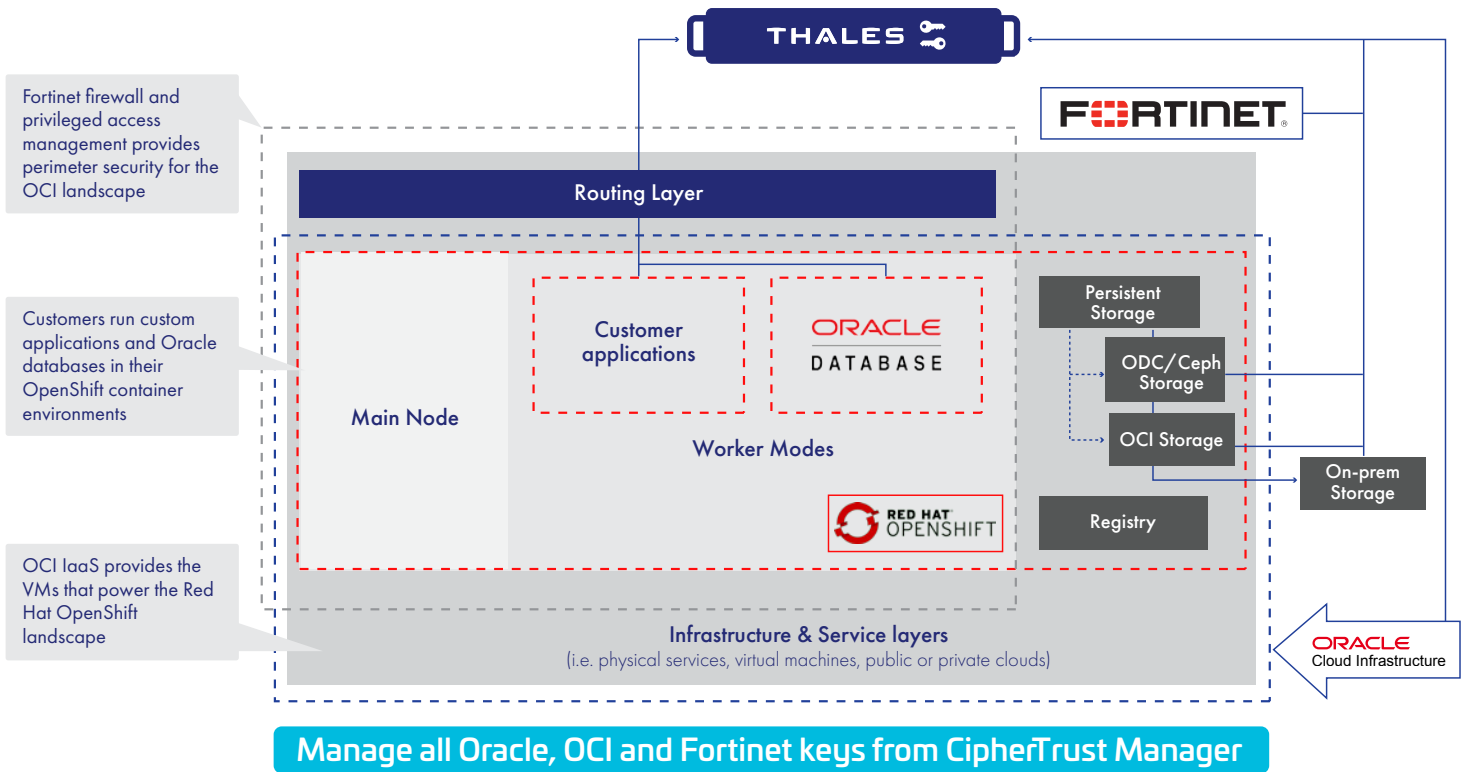
This ability is available for several OCI services, including Block Volume, Compute Engine, Container Engine for Kubernetes, Object Storage, and Streaming. It's also available for Oracle Autonomous DB on Shared Exadata Infrastructure, Database Cloud Services, and Fusion Applications.

### Protect Kubernetes Data

Customers can now easily secure their Kubernetes clusters with Thales CipherTrust Transparent Encryption ("CTE") to secure data in persistent volumes attached to pods running on Red Hat OpenShift, an enterprise-ready unified platform to build, modernize, and deploy applications at scale in OCI. Thales CTE for Kubernetes safeguards confidential data on persistent volumes linked to pods operating on Red Hat OpenShift via encryption, process and user-based access control, and data access logging. This powerful solution empowers developers to impose security measures within Red Hat OpenShift containers. CipherTrust Transparent Encryption can apply data security to individual containers and external storage accessible from them using the Container Storage Interface.

### Protect and Automate Secrets

Customers can leverage Thales CipherTrust Secrets Management (CSM), powered by Akeyless Vault, to protect and automate access to secrets across tools and cloud workloads to ensure dynamic and secure access to credentials such as certificates, API keys, and tokens. CSM also enables comprehensive secrets management including static secrets, dynamic secrets, secrets rotation, SSH keys management, auditing and analytics, across hybrid multi-cloud environments, via a scalable as-a-service deployment.



## Business Highlights for Joint Customers

### Centralize Security Management

Provides a single pane of glass view and one straightforward interface to manage encryption keys for OCI services and container based applications, protect Kubernetes data, and manage secrets.

### More Readily Meet Regulatory and Compliance Mandates

Helps enable data protection regulations and compliance mandates, such as GDPR, HIPAA, LGPD, CCPA and Schrems II.

### Lower Operational Costs

Secures data as it moves from networks to applications and the cloud, while reducing the number of resources required to maintain strong data security.

## About Thales

Today's businesses and governments depend on the cloud, data and software to deliver trusted digital services. That is why the most recognized brands and organizations around the world rely on Thales to help them protect sensitive information and software wherever it is created, stored or accessed – from the cloud and data centers to devices and across networks. As the global leader in data security and software licensing, our solutions enable organizations to move to the cloud securely, achieve compliance with confidence, create more value from their software and deliver seamless digital experiences for millions of consumers every day.