

Cloud in Your Datacenter: A Business-Value Driven Approach

ORACLE

Partner

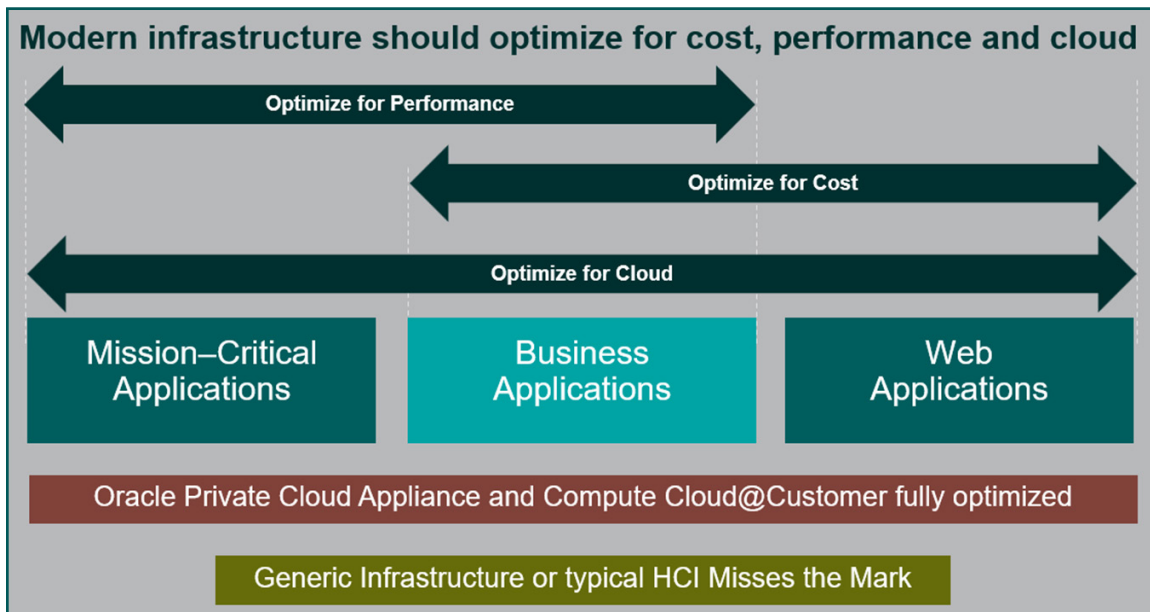


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Oracle Private Cloud Appliance

Oracle Private Cloud Appliance (Oracle PCA) is more than just another legacy blade server or one of the many legacy/modern costly VMware-based (or similar) Hyper-Converged-Infrastructure (HCI*) solutions.

* HCI — software-defined infrastructure with compute, storage, network, virtualization, and management






Oracle PCA is Hyper-Converged-Infrastructure (HCI) with the added value of being designed as an on-premises plug-n-play rack scale resilient cloud native converged infrastructure for secure, easy-to-use, scalable/expandable, rapid and automated private cloud deployment. Oracle PCA leverages the same technologies and management as Oracle Cloud but is deployed and managed by you within your datacenter to meet your data residency, security, and management policies.

Oracle Private Cloud Appliance	
Accelerate Time-to-Value	Do More with Less
Best Business Value	Reduced TCO
High-Performance	Lower Risk

- Oracle PCA is a flexible, fully integrated, scalable, wire once, software defined infrastructure system which delivers private cloud infrastructure and architecture consistent with Oracle Cloud Infrastructure (OCI).

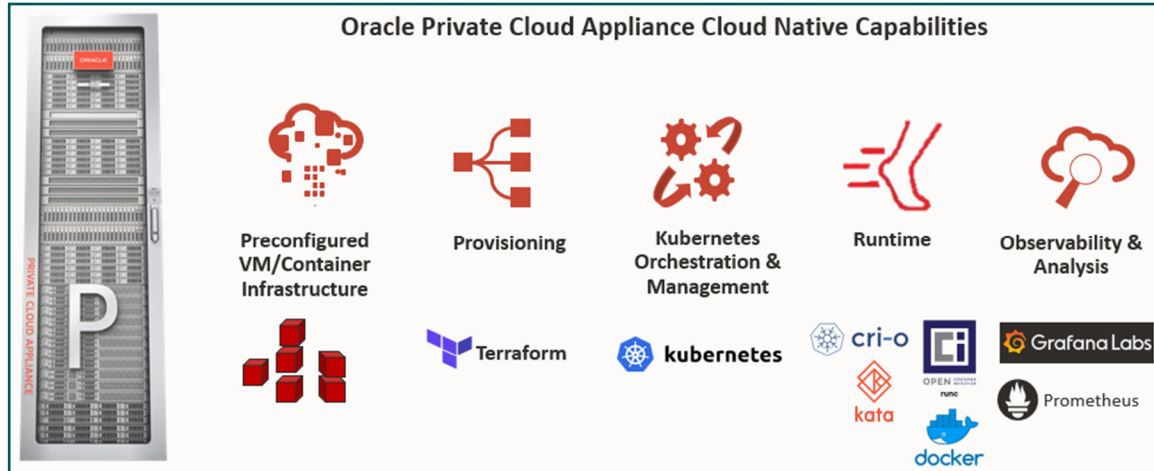
- Designed for easy, plug-n-play, rapid, and simple deployment of resilient private cloud at a superior industry-leading price and performance with ease of scalability and management that provides accelerated Time-to-Value, lowest total cost of ownership (TCO), and therefore the best business value with the lowest risk.

How Oracle Private Cloud Appliance delivers cost optimization

<h4>Hypervisor & Linux Included</h4>  <ul style="list-style-type: none"> • Virtualization, management, Oracle Linux, and more included at no additional cost • Eliminates need for costly separate VMware licensing and their support 	<h4>Intelligent Rack Design</h4>  <ul style="list-style-type: none"> • Supports rational growth by scaling one node at a time • Superior TCO versus self-assembled designs or HCI designs 	<h4>Efficient licensing</h4>  <ul style="list-style-type: none"> • Trusted partitioning saves money on Oracle and other licensing • Pay for the cores you use within the VM's not full system capacity
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- Contributing to best business value is the designed-in robust, mature, virtualization and management that are included at no additional cost. This designed-in, fully integrated approach delivers a comprehensive turnkey solution, eliminating the need for costly and complex legacy virtualization tools.
- For additional savings, you can use Oracle Linux at no additional cost since it is included with its Oracle Premier Support on the PCA along with all of its superior benefits and business value. Examples:
 - Oracle Linux Manager
 - Oracle Linux Automation Manager
 - Oracle Cloud Native Environment (Kubernetes)
 - Zero-downtime patching with Ksplice
 - Comprehensive tracing with DTrace
 - And more...
- Choice and Flexibility:
 - Start small with 3 compute nodes and expand/scale up to 12 within a single rack and then multiple racks, GPU Compute Nodes, and additional Storage manage as a single PCA. Scale Compute, GPU, and Storage independently of each other.
 - Whether running Linux or Microsoft Windows, Oracle PCA supports a wide range of mixed operating systems and workloads that are non-Oracle, Oracle, cloud native, non-cloud ready, and/or legacy.

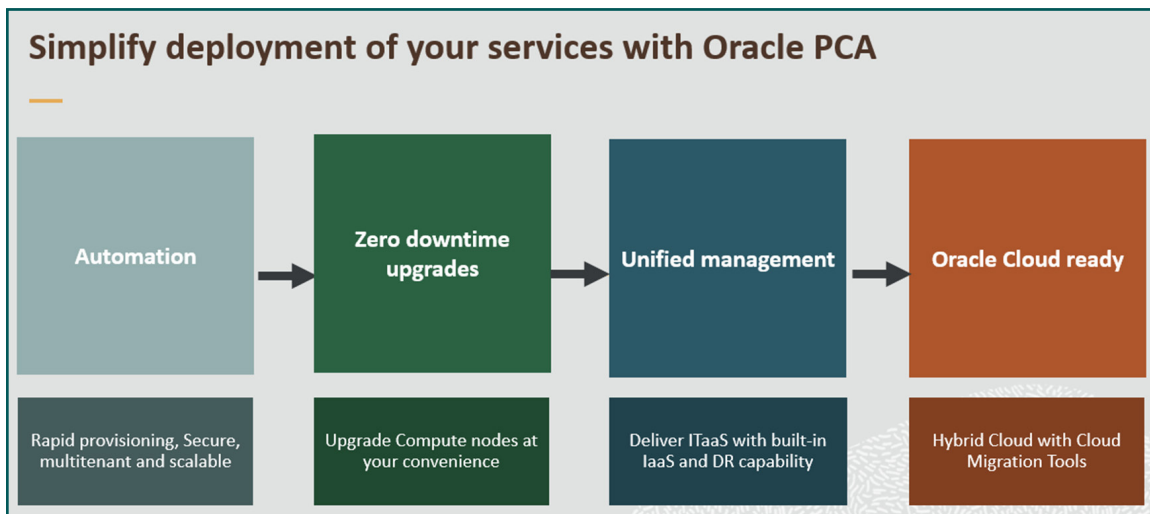
- Brings cloud operational construct, APIs, SDKs, containerization, and management tools (e.g. Kubernetes, Docker, Terraform, Ansible, REST, etc) that are also compatible with Oracle Cloud Infrastructure (OCI) to an on-premises implementation at rack scale, making workloads, user experience, tool sets and skills portable between private and public clouds.



- Customers preferring or requiring an on-premises solution can realize the operational benefits of public cloud deployments using Oracle Private Cloud Appliance.
- As one of Oracle's Engineered Systems, Oracle PCA is engineered by Oracle to deliver a comprehensive suite of resilient cloud infrastructure services with three isolated Fault Domains that utilize physical servers for isolation all within the secure environment of your on-premises network.
- 100Gb Ethernet internal fabric between compute nodes, GPU nodes, and from the nodes to the integrated storage where VM's and your data are stored
- Integrated Oracle ZFS Storage Appliance – The integrated ZFS storage hosts the cloud-like management software, including the VM installation images, various management databases with activity logs, and your data.
 - Provides 150 TB of customer usable capacity to serve as the primary storage for applications, templates and VM disk images.
 - Can be expanded with additional high-capacity and/or high-performance storage
 - Has high availability with utilizing a Dual-controller HA cluster
 - Supports Block, Object, and File Storage services using cloud-like provisioning
 - Encryption at rest by default for all storage services within Oracle PCA
 - Replication targeting another Oracle PCA

- Oracle PCA is divided into isolated enclaves, each with its own interfaces but managed by a single pane of glass using a cloud-like web-based console for management and provisioning of cloud-like services, compute, GPU, and storage.
 - Compute Enclave – the set of system resources allocated to the tenancy's infrastructure and workloads
 - Service Enclave – the system resources and services necessary to run and manage the Private Cloud Appliance's cloud services for the Compute Enclave
- Disaster recovery orchestration between two physical Oracle PCA systems is designed in and included
- Integrates all required hardware and software/management components, and has been tested, configured, and tuned for optimal performance by Oracle engineers. Like other Oracle Engineered Systems all patches/upgrades are fully tested against the entire Oracle PCA stack.

Oracle PCA is Hyper-Converged-Infrastructure (HCI) with the added value of being designed as an on-premises plug-n-play rack scale resilient cloud native converged infrastructure for secure, easy-to-use, scalable/expandable, rapid and automated private cloud deployment. Oracle PCA leverages the same technologies and management as Oracle Cloud but is deployed and managed by you within your datacenter to meet your data residency, security, and management policies.



By leveraging this Oracle PCA platform, administrators will have more time to focus on addressing strategic needs and delivering business agility, rather than investing valuable resources on integrating and managing traditional infrastructure or even typical HCI.



Pricing

- Pricing can include services such as installation, implementation, migration.
- More choice and flexibility: Alternatively, you can use subscription-based OPEX instead of CAPEX funding by utilizing Oracle Compute Cloud@Customer which is Oracle PCA but managed by Oracle similar to OCI:
 - It's in your datacenter but managed similar to how Oracle manages Oracle Cloud Infrastructure (OCI) at Oracle. (see datasheet attached)

Additional Information

- <https://www.oracle.com/engineered-systems/private-cloud-appliance/>
- <https://www.oracle.com/a/ocom/docs/cloud/oracle-private-cloud-appliance-x11-datasheet.pdf>
- <https://www.oracle.com/a/ocom/docs/oracle-private-cloud-appliance-gpu-expansions-datasheet.pdf>
- <https://www.oracle.com/a/ocom/docs/pca-x11-faq.pdf>
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- <https://www.oracle.com/a/ocom/docs/linux/oracle-linux-ds.pdf>
- https://www.oracle.com/a/ocom/docs/Solution-Brief-PCA-X9_V2-MStaimer.pdf
 - Escaping VMware Lock-in and its Ever-Increasing Costs [under Broadcom] (2023 by Dragon Slayer Consulting)

About DLT

Since 1991, DLT Solutions has been a trusted Oracle partner for the public sector. We combine deep expertise across Oracle technologies including software, infrastructure, Oracle Support renewals and Oracle Cloud with dedicated professional services to deliver mission critical solutions that support your mission. We also provide multiple contract vehicle options to simplify procurement of Oracle products and services, including but not limited to SEWP for federal and DoD customers and OMNIA for state and local entities.



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