



EnCloudEn Private Cloud (ECN PC)

Consumption based Private Cloud offering with real –time monitoring at every level

KEY BENEFITS

PAY AS YOU GROW

ECN Private Cloud is a consumption based offering. You can enroll for a monthly subscription package and increase your license count dynamically when you need it.

EASIEST TO DEPLOY & MANAGE

The ECN Private Cloud stack is an automated deployment. With just your network and storage details, the stack automatically sets up in a day and the intuitive management platform is ready to be used from Day Zero.

COMPLETE CLOUD WITH SDC, SDS & SDN

You can now leverage all the benefits of software defined compute, storage and network from a single stack. Optimize your requirements by building virtual machines in your custom environment.

HARDWARE AGNOSTIC & SCALABLE

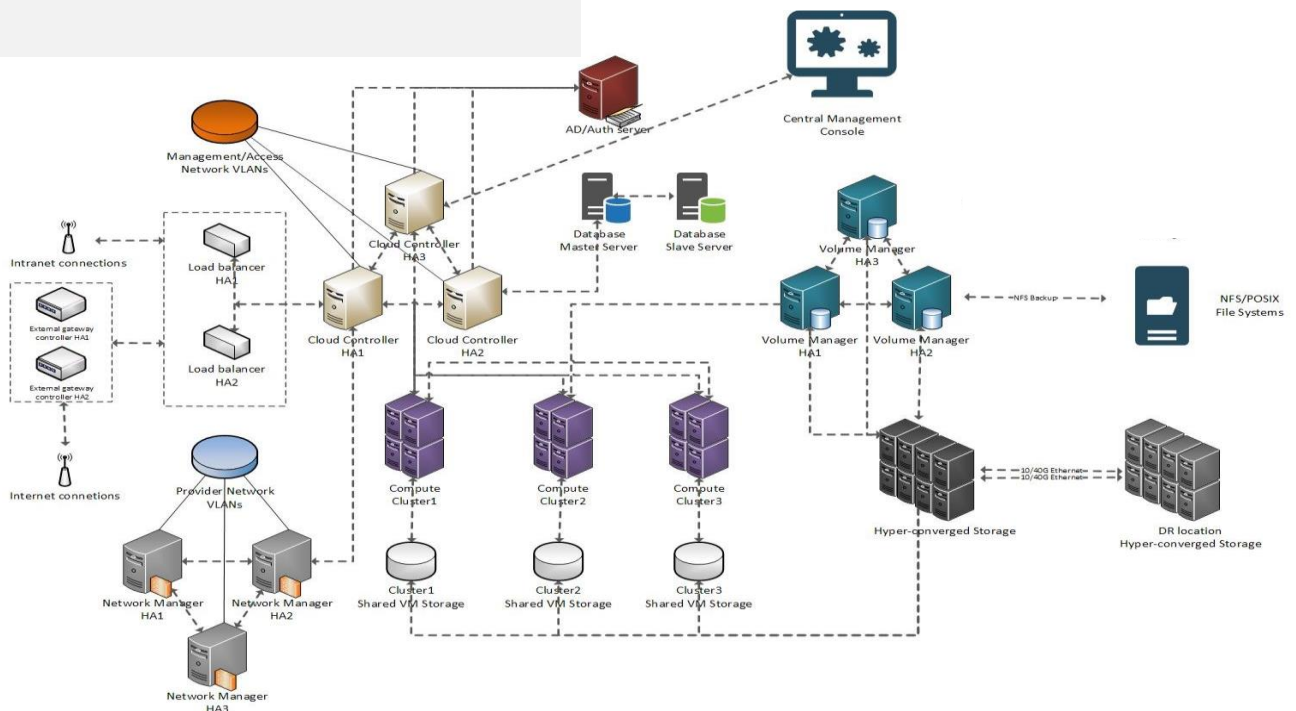
ECN Private Cloud can run on any commodity or even existing hardware. It can also scale automatically by just adding a new node.

What is ECN Private Cloud?

The global infrastructure landscape has changed dramatically with the advent of cloud computing. Today, the benefits of virtualization are not just limited to public clouds, but are also omnipresent in enterprise datacenters in the form of private clouds.

The EnCloudEn platform is a complete independent solution with all requisite layers for building a comprehensive private cloud. It begins with the software stack being deployed on a bare metal server. This will include, but not be limited to, the OS for the physical server, the hypervisor, the hyper converged platform (if opted for), the cloud management layer, the monitoring and orchestration engine and the management platform.

Using the platform, virtual machines can be launched, provisioned, de-provisioned and resized to meet any ongoing needs. Depending on the specific needs, these VMs can be set-up with different configurations as well as templates. Other configuration settings to govern as well as monitor the entire infrastructure will be available through the management platform.



Why ECN Private Cloud?

ECN Private Cloud brings you the best of public clouds in an on-premises package. So that you are able to enjoy the benefits of growing on demand and at the same time operate within the stringent security and compliance demands of your organization.

MULTI-TENANT ARCHITECTURE: With inbuilt multi-tenancy, just like in a public cloud, you are now able to give out IaaS to your internal teams/projects for consumption. With a quota driven approach, you can now ensure that each team/client gets the exact resources that they need and can work independently in network silos.

INSIGHTS FOR MAXIMUM UTILIZATION: ECN PC gives you accurate insights into how the resources that you have implemented are being utilized across your organization. Trends, graphs and consumption reports give you an exact feedback on where you have under or over-provisioned resources from the level of a team/project to the granularity of an individual VM.

TOTAL COMPLIANCE: ECN PC can manage every single piece of software/ patch that needs to be installed. What it does for you is perpetually ensure that all your systems are patched and all your applications updated. Role based access elevates information security practices towards ITSM qualification.

ZERO TIME TO RESOLUTION: At EnCloudEn we believe that the way forward is in pre-emptive issue resolution. Our live monitoring constantly gives you an update of every single hardware and virtual machine in the entire infrastructure. Alerts are generated depending on the severity of the impending problem for immediate resolution. The result is that problems are solved before the user even feels any degradation in performance.

BEST ROI IN INDUSTRY: ECN PC is able to give you industry leading ROI because of its three-pronged approach:

Inexpensive Hardware – Working with commodity hardware that can be customized to deliver an HCI or SAN based architecture, you are able to get the best packing ratios per node.

Affordable software – With bundled in real time monitoring and analytics platform, you get the best of features and tools at a base price.

Reduce Support – With automated alerts and proactive issue resolution from a central management, ECN PC ensures that your support costs fall dramatically.

Key Features & Capabilities

HIGH AVAILABILITY: ECN PC provides you a highly available active-active architecture. This ensures that your cluster is up and running irrespective of any node failure.

DATA REDUNDANCY: You do not need to step outside of your cluster if you are looking for data safety. ECN PC has data redundancy in-built (if you opt for the HCI architecture), so whether an individual drive fails or an entire node, you know that your data is safe on another node and drive in the cluster.

GRANULAR QoS: You can now set individual storage and network metrics for each VM. For example, you can set the IOPs or bandwidth allocated for each VM thereby giving preferential hierarchy to individual VMs and applications based on their profile.

THIN PROVISIONING: BY default, thin provisioning is enabled. This allows for the creation of a virtual disk that is provisioned in full with respect to the inputted storage requirements for a VM. However, only as much storage as is needed for its initial operations is first committed.

Additional storage is added on the fly, thereby eliminating under-utilization of storage space.

LOAD BALANCING: The intelligent allocation algorithm of ECN Private Cloud is able to determine the best placement of VMs so that performance is maximized across nodes.

DISASTER RECOVERY: ECN PC supports DR via multiple mechanisms. The in-built DR mechanism can allow for a part of the cloud to be replicated and run from a DR site. The DC→DR replication is one-way and the RPO and RTOs can be adjusted according to the bandwidth available between the DC/DR sites. Third party software can also be used to provide DR directly in public clouds.

BACKUP: The in-built backup mechanism is supported at a VM and storage LUN/volume level. ECN PC supports volume level backup and restore functionality to the following backends:

- EnCloudEn Hyper Converged Storage
- NFS Storage
- POSIX File Systems
- Google Cloud Storage
- Amazon S3
- IBM Tivoli Storage manager

Backup utilities from other third-party vendors can also be integrated to work with. The requirement for third party backups to work is that they support direct agent-based/agentless file level backup from inside the virtual machines.

SOFTWARE DEFINED NETWORKING (SDN): ECN PC comes with a full fledged SDN suite. You can enable more granular security, optimize network hardware costs and direct and automate traffic for better QoS. You have full capabilities for

delivering micro-segmentation, distributed virtual switches, Firewall as a Service and QoS controls among others as well.

CENTRALIZED APP & PROCESS ORCHESTRATOR: You are now able to have a true centralized control over all your individual VMs. With the app and process orchestrator, you can not only install, uninstall and update any group of applications on any range of VMs, but you can also start, stop or schedule a process in any VM at your convenience.

CENTRALIZED PATCH MANAGEMENT: ECN PC comes with a centralized patch management tool. With this you are able to create an isolated test environment within the same cluster and verify the results. Once satisfied, you can preferentially push these updates on any selected VM, ensuring that all of your systems are patched always.

APP PUBLISHING: ECN PC comes with an app publishing platform. You can now gain much greater control on the way your applications are used. Moreover, ECN PC enables published apps to be accessed both from Windows and Linux.

SELF-SERVICE & ROLE BASED ACCESS: With an RBAC dashboard, users and admins can now access a control module of their own set of machines and are able to provision resources within their defined quota.

SINGLE CONTROL PANE: With a unified management platform, sys-admins are now able to manage their entire infrastructure from a centralized location. An overview generates all necessary alerts across any resource for immediate intervention whenever required.

For more information, please contact us at engage@enclouden.com or +91-9535091837