CloudHub 2.0 for CloudHub 1.0 Users

CAELIUS CONSULTING

MuleSoft

www.caeliusconsulting.com

Overview

CloudHub 2.0 is a fully managed, containerized integration platform as a service (iPaaS) where you can deploy APIs and integrations as lightweight containers in the cloud.

What are Containers?

Containers are lightweight packages of your application code together with dependencies such as specific versions of programming language runtimes and libraries required to run your software services.

Containers make it easy to share CPU, memory, storage, and network resources at the operating systems level and offer a logical packaging mechanism in which applications can be abstracted from the environment in which they actually run.

How are Containers different from VMs?

We might have already been familiar with VMs. They are a guest operating system such as Linux or Windows runs on top of a host operating system with access to the underlying hardware. Containers are often compared to virtual machines (VMs). Like virtual machines, containers allow you to package your application together with libraries and other dependencies, providing isolated environments for running your software services.

However the containers offer a far more lightweight unit for developers and IT Ops teams to work with, carrying a myriad of benefits.

- Containers are much more lightweight than VMs
- Containers virtualize at the OS level while VMs virtualize at the hardware level
- Containers share the OS kernel and use a fraction of the memory VMs require

Why should we deploy our Applications on CloudHub 2.0 ?

- Provides for deployments across 12 regions globally.
    - US East: Ohio, N Virginia
    - US West : California,Oregon
    - Asia Pacific : Tokyo , Singapore,Sydney,
    - Canada : Central
    - EU : Frankfurt, Ireland, London
    - South America : Sao Paulo
- Dynamically scales infrastructure and built-in services up or down to support elastic transaction volumes.
    - Volume size, adjust performance, or change the volume type while the volume is in use. You can continue to use your application while the change takes effect.
- Builds in security policies, protecting your services and sensitive data with encrypted secrets, firewall controls, and restricted shell access.
- Encrypts certificates, passwords, and other sensitive configuration data at rest and in transit within Anypoint Platform.
- Provides a standardized isolation boundary by running each Mule instance and service as a separate container