

# Warm Up Week

# Intensive Cloud Computing Hands-on Training

Week's schedule





# TOOLKIT OF THE **MULTICLOUD** & DEVOPS PROFESSIONAL



















Monday @ 7 PM Eastern Time





# HANDS-ON WITH TERRAFORM AND AWS





Tuesday @ 7 PM Eastern Time





# HANDS-ON WITH DOCKER ON CLOUD



Wednesday @ 7 PM Eastern Time





# HANDS-ON WITH KUBERNETES ON CLOUD



Thursday @ 7 PM Eastern Time





# HANDS-ON WITH TERRAFORM ON GOOGLE CLOUD



Friday @ 7 PM Eastern Time





# TOOLKIT OF THE MULTICLOUD & DEVOPS PROFESSIONAL























ORACLE CLOUD



Larry Ellison and
Satya Nadella Announce
New Multicloud Collaboration

ps.com



Modernizers: 1 Replatformers

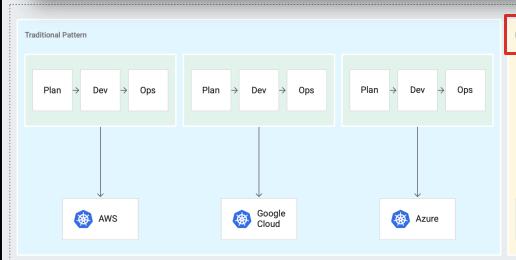
New IDC research proves the benefit modernizing on IBM® i and IBM Z®

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Orgs Say Multi-Cloud Helps Achieve Business Goals









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## A \$16.7 Billion Global Opportunity for DevOps by 2026 - New Research from StrategyR

**NEWS PROVIDED BY** Global Industry Analysts, Inc. → Jun 03, 2022, 11:35 ET

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San Francisco, June 3, 2022 / PRNewswire / -- A new market study published by Global Industry Analysts Inc., (GIA) the premier market research company, today released its report titled "DevOps - Global Market Trajectory & Analytics". The report presents fresh perspectives on opportunities and challenges in a significantly transformed post COVID-19 marketplace.



























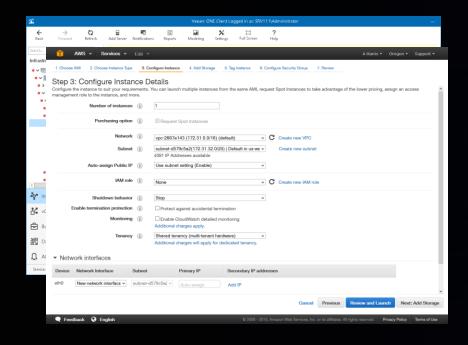






## INFRASTRUCTURE PROVISIONING

#### **BEFORE**







#### **AFTER**

```
live1-canivete > 🍟 main.tf > 😭 provider "aws"
      terraform {
         required_providers {
           aws = {
             source = "hashicorp/aws"
             version = "~> 4.16"
         required_version = ">= 1.2.0"
       provider "aws" {
         region = "us-west-2"
 14
       resource "aws_instance" "app_server" {
                       = "ami-830c94e3"
         instance_type = "t2.micro"
         tags = {
          Name = "tcb-app-server1"
```



#### **ENVIRONMENT CONFIGURATION**

#### **BEFORE**

Tasks to install Apache on 10 Linux VMs:

- 1) Install apache
  # yum install apache2
- 2) Change directory
  permission
  # chmod /var/www/html
- 3) Copy sample index file
- N) ..



#### **AFTER**

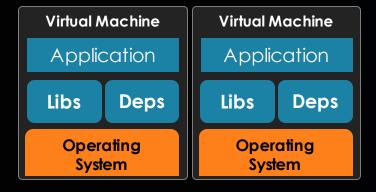
```
live1-toolkit > ! ansible-install-apache-pt.yaml
    - name: Ansible Playbook to install Apache on Linux
          - name: Install and configure the latest Apache version
            apt: name=apache2 update_cache=yes state=latest
          - name: Change directory permission
              path: "/var/www/html"
              state: directory
              owner: www-data
              group: www-data
              mode: '0755'
          - name: Copy sample index file
            template:
              src: "files/index-template.html"
              dest: "/var/www/html/index.html"
          - name: "Iptables: Allow traffic on port 80"
              chain: INPUT
              protocol: tcp
              destination_port: 80
              jump: ACCEPT
              action: insert
```





## **APPLICATION DELIVERY FORMAT**

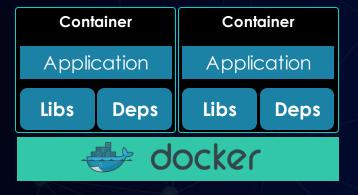
**BEFORE** 















# **APPLICATION ORCHESTRATION**

#### **BEFORE**



Step 1: Application Server 1



Step 2: Application Server 2



Step N: Application Server N





#### **AFTER**



Application pod 1



Application pod 2



Application pod N

Kubernetes Cluster







# THE **NEW ERA** HAS BEGUN: MULTICLOUD & DEVOPS



#### **COMMON** MISTAKES



THINK THAT LEARNING JUST AWS OR AZURE IS ENOUGH

DON'T HAVE THE PROPER WAY TO LEARN MULTICLOUD

THINK THAT MULTICLOUD IS A LOT TO LEARN & HANDLE









## Documentation

















# Productivity Tools





# **MULTICLOUD TOOLKIT**

AWS Documentation

aws

Microsoft Azure Documentation



Google Cloud Documentation

Documentation



Oracle Cloud Infrastructure





Google Cloud vs AWS vs Azure

OCI vs All

Services Comparison



## **DEVOPS TOOLKIT**

Core

Collection



**AWS** 

Microsoft Azure

Google Cloud

Oracle Cloud







kubectl Cheat Sheet - EN

kubectl Cheat Sheet - PT



Docker

Docker Docs Portal

Docker Cheat Sheet



# **DEVOPS TOOLKIT**



**DOWNLOAD** 

