

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













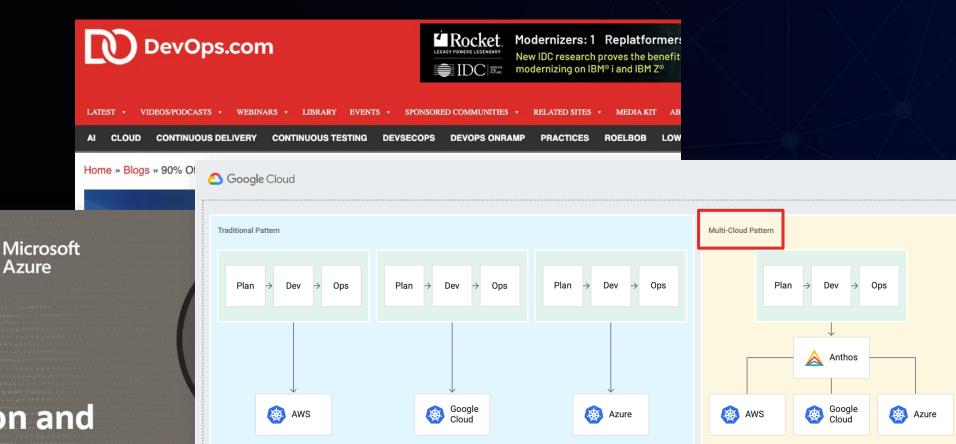












Larry Ellison and
Satya Nadella Annound
New Multicloud Collaboration

ORACLE

Infrastructure



a positive outcomes.

d adoptions are helping ty and governance. and skills shortages





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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

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← Back	→ Forward	₹2 ☐ Refresh Add Serve	er Notification	as Reports M	Modeling Setting		? Help					
Search	î AWS	S v Services	▼ Edit ▼							A Harris ▼	Oregon *	Support ▼
Infrastri	1. Choose AMI	2. Choose Instance	Type 3. Cor	nfigure Instance	4. Add Storage	5. Tag Instance 6	i. Config.	gure Security Group	7. Review			
• >	Step 3: Configure Instance Details Configure the instance to sat your requirements. You can launch multiple instances from the same AMI, request Spot Instances to take advantage of the lower pricing, assign an access management role to the instance, and not be instance, and not be instance, and not be instance, and not instance and not instance and not instance and not instance.											
•		Number of instar	noes (j	1								
•		Purchasing op	otion (j	Request Spot	Instances							
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_		Auto-assign Publi	ic IP (i)	Use subnet setting	ing (Enable)		٧					
<		IAM	role (j	None			v C	Create new IAM ro	ile			
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⊕ Bu		Monito	oring (i)	Enable CloudV Additional charge	Watch detailed mor es apply.	vnitoring						
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Q AI	▼ Network	interfaces										
Service:	Device Net	work Interface	Subnet	Prim	nary IP	Secondary IP add	dresses	8				
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								Cancel	Previous	Review and Lau	anch Nex	d: Add Storage
		0-										_
	Feedback	English									Privacy Policy	Terms of Use





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

Virtual Machine
Application

Libs Deps

Operating
System

Virtual Machine
Application

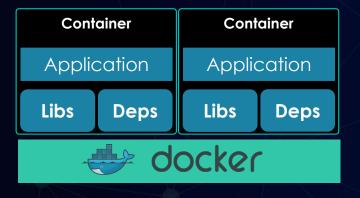
Libs Deps

Operating
System













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



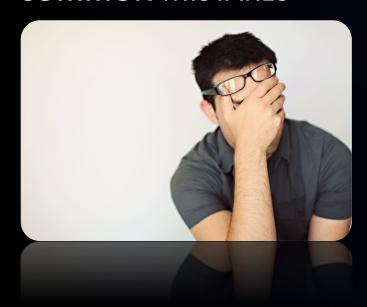




THE **NEW ERA** HAS BEGUN: MULTICLOUD & DEVOPS



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



Oracle Cloud Infrastructure Documentation



Google Cloud vs AWS

OCI vs All

Services Comparison



DEVOPS TOOLKIT

Core

Collection

Microsoft Azure

AWS

Google Cloud

Oracle Cloud









kubectl Cheat Sheet - EN

kubectl Cheat Sheet - PT



Docker

Docker Docs Portal

Docker Cheat Sheet



DEVOPS TOOLKIT



DOWNLOAD

