

IntensiveCloudComputing

HANDS ON TRAINING - THE RETURN

Warm Up Week

Intensive Cloud Computing Hands-on Training

Week's schedule



THE CLOUD BOOTCAMP

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



Docker

Wednesday @ 7 PM Eastern Time



HANDS-ON WITH KUBERNETES ON CLOUD



Kubernetes

Thursday @ 7 PM Eastern Time



HANDS-ON WITH TERRAFORM ON GOOGLE CLOUD



Friday @ 7 PM Eastern Time



TOOLKIT OF THE MULTICLOUD & DEVOPS PROFESSIONAL



Python



Ansible



Terraform



Docker



Git



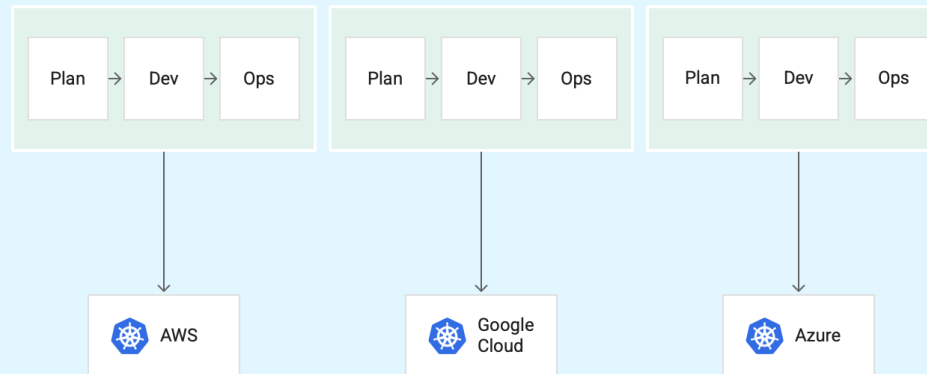
Kubernetes



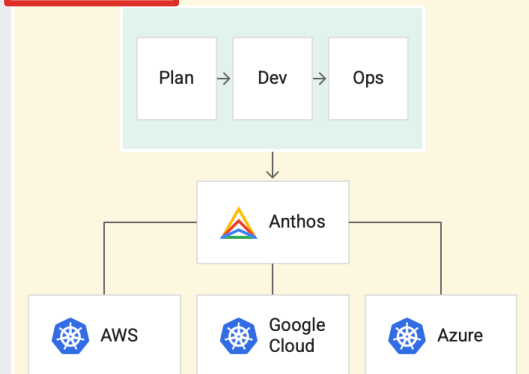
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Google Cloud

Traditional Pattern



Multi-Cloud Pattern



ORACLE
CLOUD
Infrastructure

Microsoft
Azure

Larry Ellison and Satya Nadella Announce New Multicloud Collaboration



g positive outcomes.

ad adoptions are helping

ty and governance.

and skills shortages



THE CLOUD BOOTCAMP

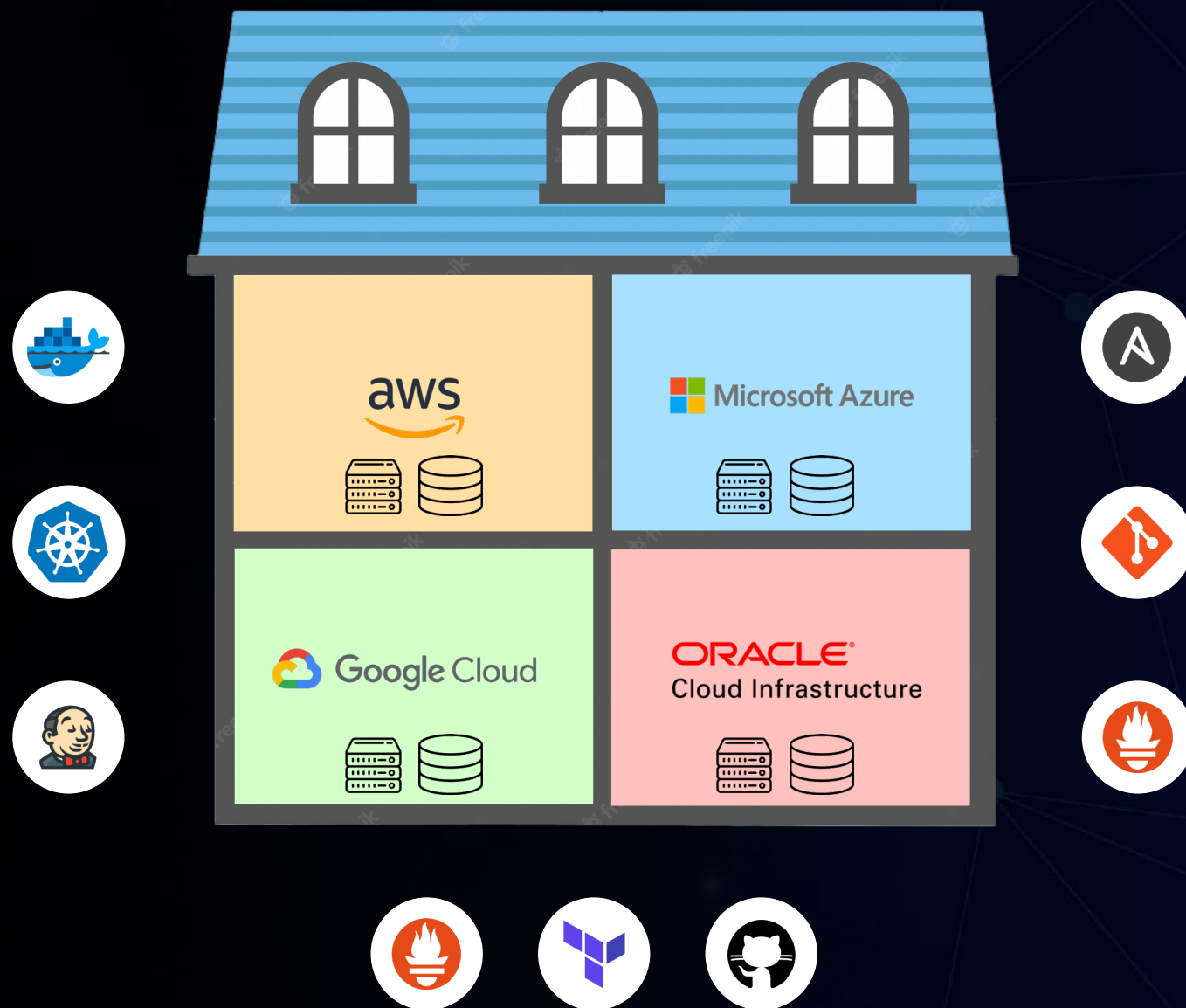
A \$16.7 Billion Global Opportunity for DevOps by 2026 - New Research from StrategyR

NEWS PROVIDED BY
[Global Industry Analysts, Inc. →](#)
Jun 03, 2022, 11:35 ET

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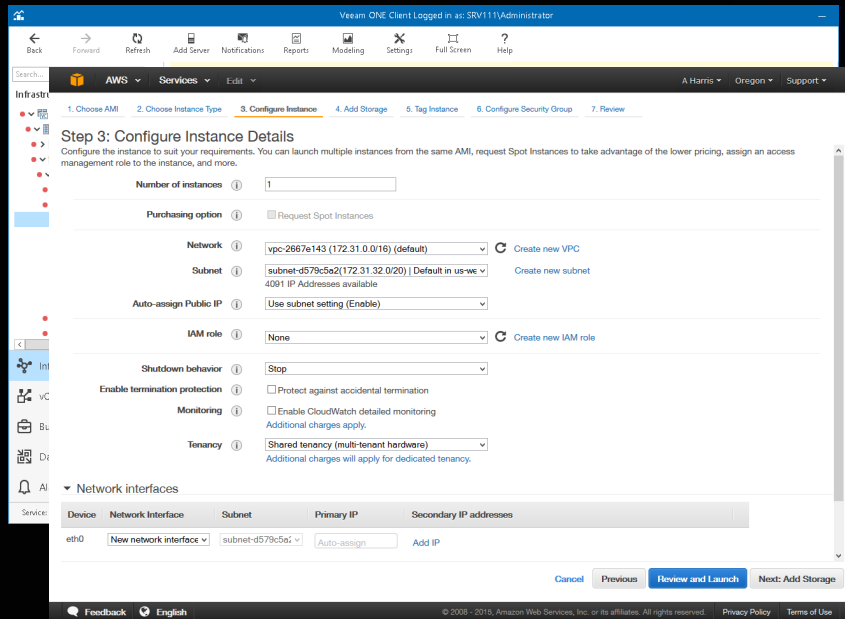


San Francisco, June 3, 2022 /PRNewswire/ -- A new market study published by Global Industry Analysts Inc., (GIA) the premier market research company, today released its report titled "[DevOps - Global Market Trajectory & Analytics](#)". The report presents fresh perspectives on opportunities and challenges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



INFRASTRUCTURE PROVISIONING

BEFORE



TERRAFORM

AFTER

```
live1-canivete > main.tf > provider "aws"
1 terraform {
2   required_providers {
3     aws = {
4       source = "hashicorp/aws"
5       version = "~> 4.16"
6     }
7   }
8
9   required_version = ">= 1.2.0"
10 }
11
12 provider "aws" {
13   region = "us-west-2"
14 }
15
16 resource "aws_instance" "app_server" {
17   ami           = "ami-830c94e3"
18   instance_type = "t2.micro"
19
20   tags = {
21     Name = "tcb-app-server1"
22   }
23 }
```



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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) ...



ANSIBLE

AFTER

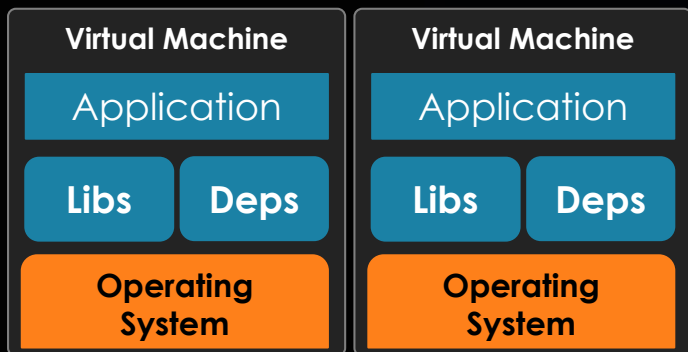
```
live1-toolkit > ! ansible-install-apache-pt.yaml
1  - name: Ansible Playbook to install Apache on Linux
2    hosts: webservers
3    become: yes
4    tasks:
5      - name: Install and configure the latest Apache version
6        apt: name=apache2 update_cache=yes state=latest
7
8      - name: Change directory permission
9        file:
10         path: "/var/www/html"
11         state: directory
12         owner: www-data
13         group: www-data
14         mode: '0755'
15
16      - name: Copy sample index file
17        template:
18         src: "files/index-template.html"
19         dest: "/var/www/html/index.html"
20
21      - name: "Iptables: Allow traffic on port 80"
22        iptables:
23         chain: INPUT
24         protocol: tcp
25         destination_port: 80
26         jump: ACCEPT
27         action: insert
```



THE CLOUD BOOTCAMP

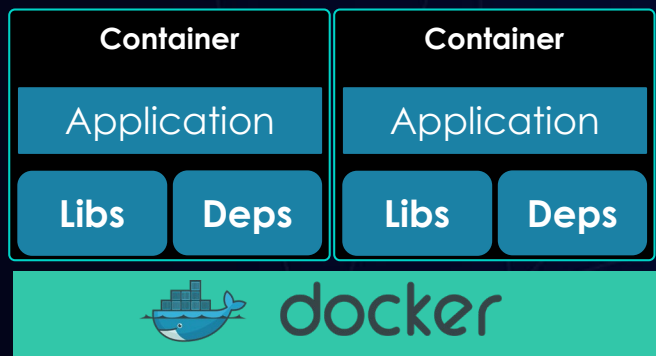
APPLICATION DELIVERY FORMAT

BEFORE



DOCKER

AFTER



THE CLOUD BOOTCAMP

APPLICATION ORCHESTRATION

BEFORE



Step 1: Application Server 1



Step 2: Application Server 2

⋮



Step N: Application Server N

Manual

Manual



KUBERNETES



AFTER



Application
pod 1



Application
pod 2



Application
pod N

Kubernetes Cluster



THE CLOUD BOOTCAMP

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



Python



Ansible



Terraform



Docker



Git



Kubernetes

Productivity Tools



VS Code



THE CLOUD BOOTCAMP

MULTICLOUD TOOLKIT

AWS Documentation



Microsoft Azure Documentation



Google Cloud Documentation



Oracle Cloud Infrastructure
Documentation



Google Cloud vs AWS
vs Azure

OCI vs All

Services Comparison



DEVOPS TOOLKIT

Core

Collection

AWS

Microsoft Azure

Google Cloud

Oracle Cloud



Ansible



Terraform



Kubernetes

kubectl Cheat Sheet - EN

kubectl Cheat Sheet - PT



Docker

Docker Docs Portal

Docker Cheat Sheet

DEVOPS TOOLKIT



VS Code

DOWNLOAD

