Get started on IBM Cloud & Watson Services

Call for Code 2021

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Speakers

Qamar Un Nisa - NEWA
Tosin Amuda – Nigeria
Sbusiso Mkhombe – South Africa

IBM Developer

IBM

Introduction

Call for Code 2021: Get started on IBM Cloud & Watson Services

Tosin Amuda

Software Developer, IBM
Client Center, Middle East
& Africa

Sbusiso Mkhombe

Cloud Engineer, Hybrid
Cloud Build Team, IBM
Southern Africa

Qamar un Nisa

Lead Developer
Advocate, IBM North,
East & West Africa

IBM Developer

IBM

Contents

Shuri

Fullstack Software Engineer

GOALS

Build application to help my client achieve their business objectivies

TECHNICAL SKILLS

- Frontend: React, Angular, Vue
- Backend: Express, Django, Spring
- SQL DB: Db2, Postgre, MySQL
- NOSQL DB: Mongodb, Couchdb
- Others: Github,

Single

Loves Video Game

<= 1 year Experience

DeskTop/Laptop

PAIN POINTS

- Don't know how to go about hosting her apps

- Wants to embrace DevOps, Microservice and Cloud Native Development but not easy to use tools available

- Wants to embedded AI into apps but AI is hard so she is looking for API or cloud services she can leverage.

- She thinks her productivity can be increase productivity by leveraging serverless, starter packs, devops etc

Shuri needs a place to host her nodejs frontend and backend app with the database so that she can share the link of her working application with their client accessible over the internet

OPTION 1: TRADITIONAL SERVER

Shuri buys her own server, configures it, host her application on it and connect the server to the internet

- Server cost like $200K, it is too expensive to purchase and import into Wakanda.

- She will need the knowledge of server configuration and maintenance

- She will spend huge amount of money to maintain the server

OPTION 2: LOCAL HOSTING SERVICE

Shuri seeks a older colleague advice, he advises her to use a cheap local shared hosting service

- She checks their site and finds out the only support hosting of PHP sites and can't help her host a NodeJS application. This is so 1999

OPTION 3: PUBLIC CLOUD HOSTING

Shuri then remembered she attended a Call-to-Code event a few weeks ago, where She held about IBM Public Cloud and how she can host any kind of application

- She googles about IBM Cloud and saw that Cloud is the way to go for her.

Why Cloud?

After careful evaluation of the Cloud, Shuri quickly discover the following advantage for a developer in making use of Cloud.

- Speed and Agility: Developer Can quickly create a customized virtual server to host any of their application or use any of the managed service option

- Cost Saving through Pay As You Go Model: Developer don't have pay upfront only after usage

- Flexibility: Different hosting services and models for example option to use a Virutal server, platform as a service, Container as a service, serverless etc

- Access to Innovative Services like AI and Blockchain

Why IBM Cloud?

~400

IBM Cloud catalog

Services

Software

Consulting

~200
API services

logdna   vmware   sysdig

Storage   Compute   DB2 Warehouse

~200
ISV images

BYOL | Pay as you go

TANIUM   DELPHIX   Jenkins

elastic   Check Point SOFTWARE TECHNOLOGIES LTD   mongoDB

TensorFlow   Grafana   WORDPRESS

5
Consulting services

Schedule consultation with IBM Services:
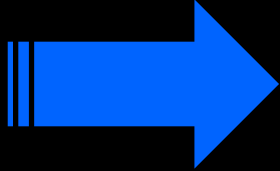
Cloud migration services   Security   Garage

Why IBM | Containers, Functions, & Apps... Which Do I Use When?

It all comes down to:

– Developer Productivity

– Choice

– Control

– Consistency

Speed

Portability

Performance & Control

Cloud Functions
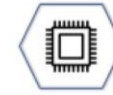*"Serverless" / Event Driven Apps*

Cloud Foundry
Open PaaS Environment

Container
Maximum Portability

Virtual Server or VMware
Leverage Existing Images & Tools

Bare Metal
Maximum Performance & Control

Language/Framework

.js .java liberty

.py .php

.go

.rb ANGULARJS

express

spring

Open, standards-based cloud operating environment

Container Orchestration

- Manages scalable deployment and lifecycle management
- Large open source community and rapid enterprise adoption
- De facto choice for new applications

Security

- Identity and Access
- Key management
- Network Security

Containers

- Enables portability across hardware platforms and clouds
- Accelerating enterprise adoption
- Integrates Development and IT
- Open source and strong community

Management

- Monitoring
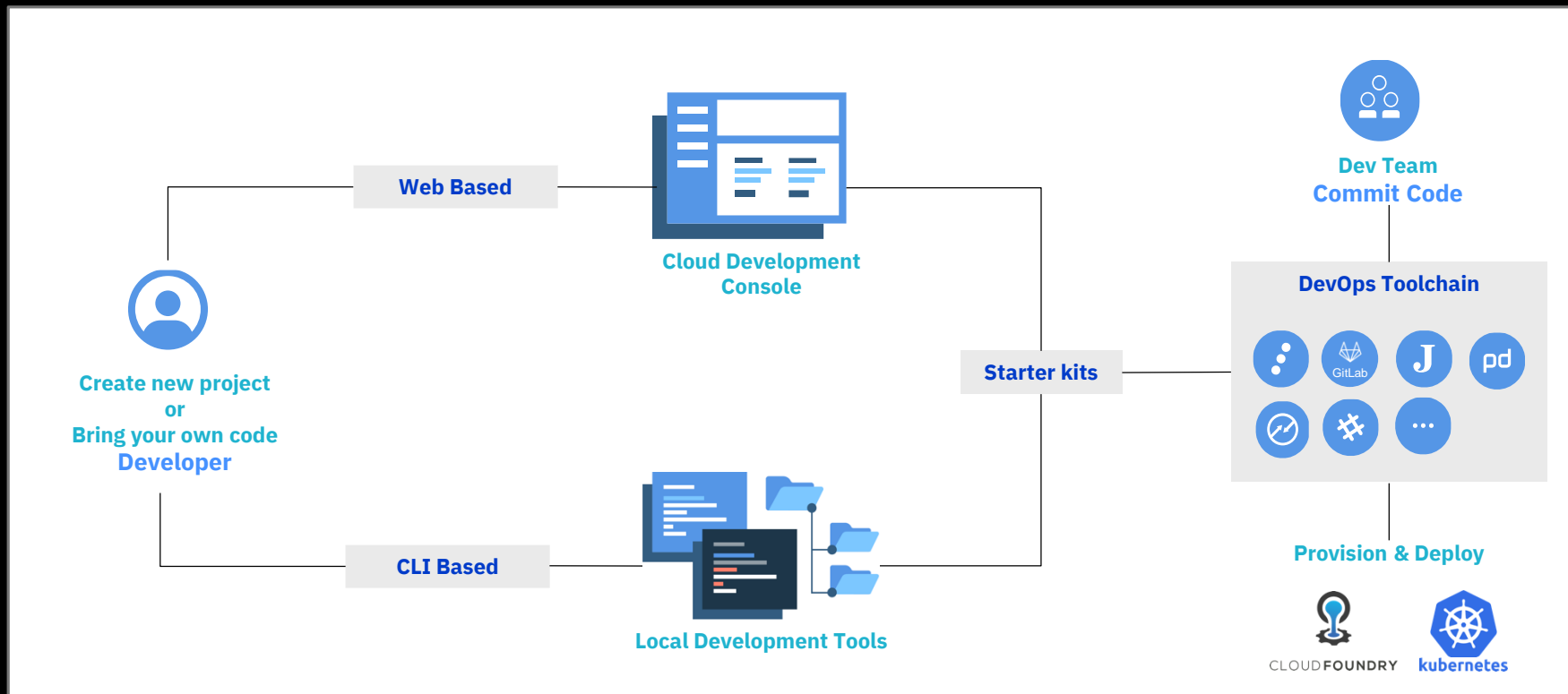- Logging
- Metering

Operating Systems

- Power, Z and Intel
- #1 Enterprise OS across cloud providers
- Open source with strong community
- Broad hardware vendor support

AI Enabled

- Watson Studio & AI OpenScale
- Machine Learning Frameworks
- Open Source Databases

Developer | Building a cloud native application

Web Based

Cloud Development Console

**Create new project
or
Bring your own code
Developer**

CLI Based

Local Development Tools

Starter kits

**Dev Team
Commit Code**

DevOps Toolchain

GitLab
J
pd

Provision & Deploy

CLOUD FOUNDRY
kubernetes

To learn more visit:
https://cloud.ibm.com/developer

Developer | IBM Cloud App Starter Kits
Choose your language, frameworks and tools

Integration Logic

- Cloud Runtime
- Cloud Services
- Local Environment
- DevOps
- Environment build and deploy config

Use Case Logic

- Basic Web App
- Basic Mobile App
- Microservice
- Basic Backend
- Watson App
- Finance App

Language & Framework

WebSphere Liberty · express · Flask *web development, one drop at a time* · KITURA · spring

Language

Java · node JS · python™ · Swift

Starter Kits are **end-to-end Cloud Development Kits** that bundle all the assets developers need to build Cloud Native apps on IBM Cloud

Starter Kits are **100% custom assembled via guided**, **curated App Service experience**

Saves weeks of effort by integrating:

- Open Source language frameworks, and Enterprise use cases logic

- Cloud resources including IBM runtimes, DevOps for continuous delivery, cloud services and compute

- Tooling for **local development** and **agile team collaboration**

How to get started

IBM® Cloud™
Lite Account

Try IBM Cloud today with a free account
using the link: https://ibm.biz/BdfPVJ

Demo of IBM Cloud Console

Deploying to IBM Cloud Workshop

Thank you.

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