

IBM Private Cloud Customer Use Case – Top Polish Bank Deployment

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IBM Cloud, defined...



IBM Cloud is an enterprise grade, full stack platform, purpose built for **data-intensive** AI workloads and **cloud-native** application suites, delivered on software definable infrastructure.

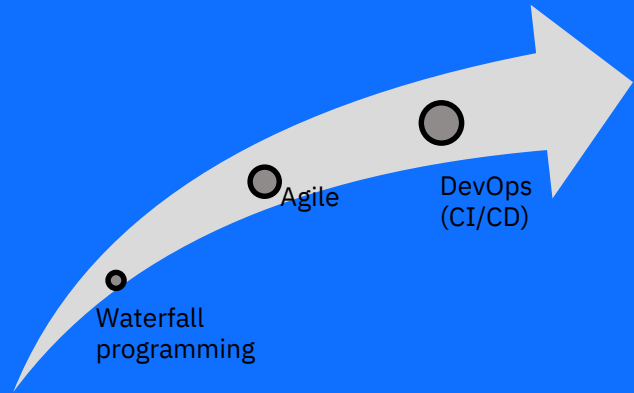
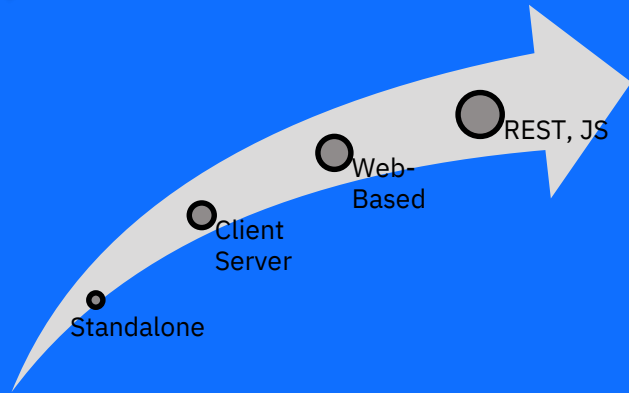
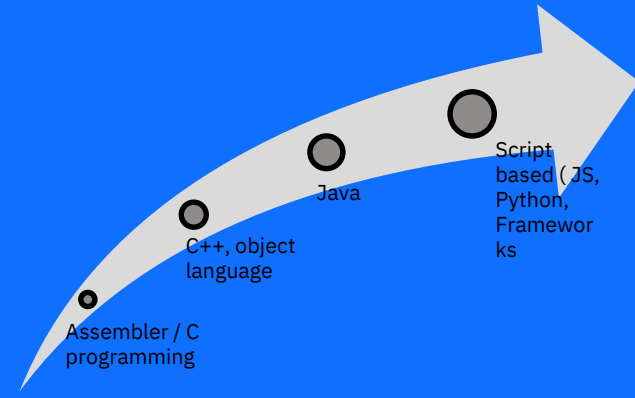
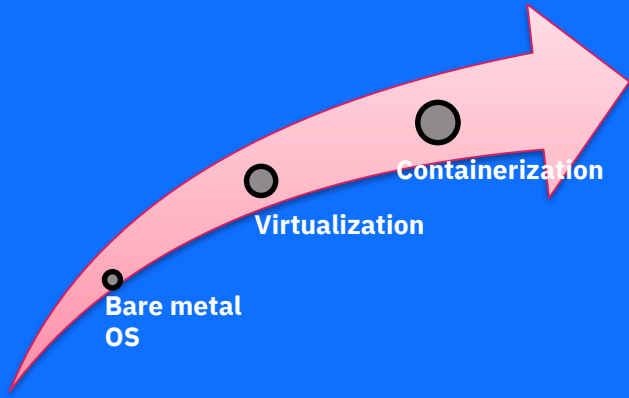
Deploying a Microservices Application on a Heterogenous Kubernetes Cluster



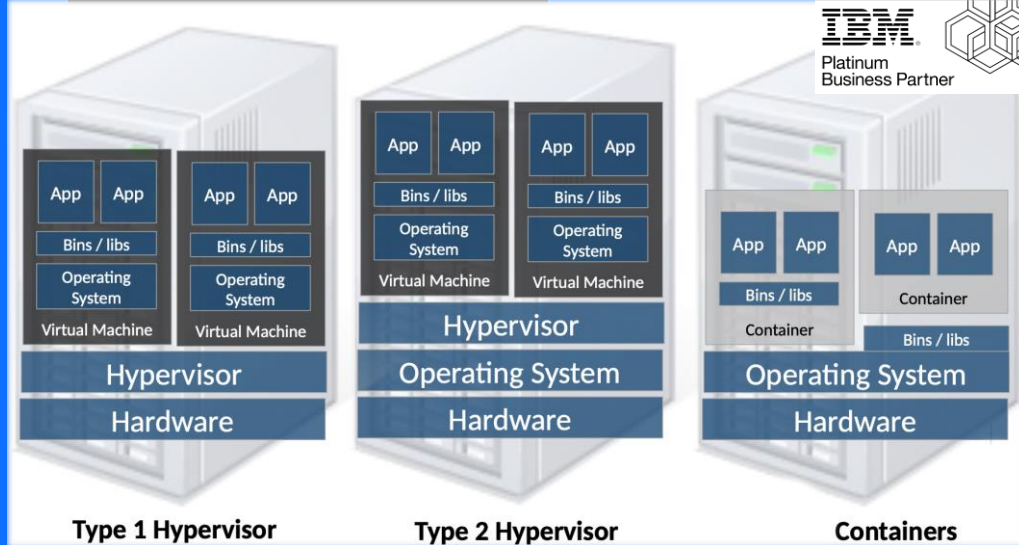
The advantages of microservices architecture is that it gives you **the choice to select a platform which is best suited** for a specific service.

Some services could be running on Intel platforms, whereas few other services can run on Power platforms.

Evolution of software engineering, scalability and agile development



From virtualization to containerization...



Traditional Virtualization provides hardware abstraction, allowing **multiple instances of Operating System on a single hardware.**

Container-based-virtualization provide **lightweight solutions** by abstracting Operating System, where multiple workloads share the kernel host operating system.

Containerized Applications

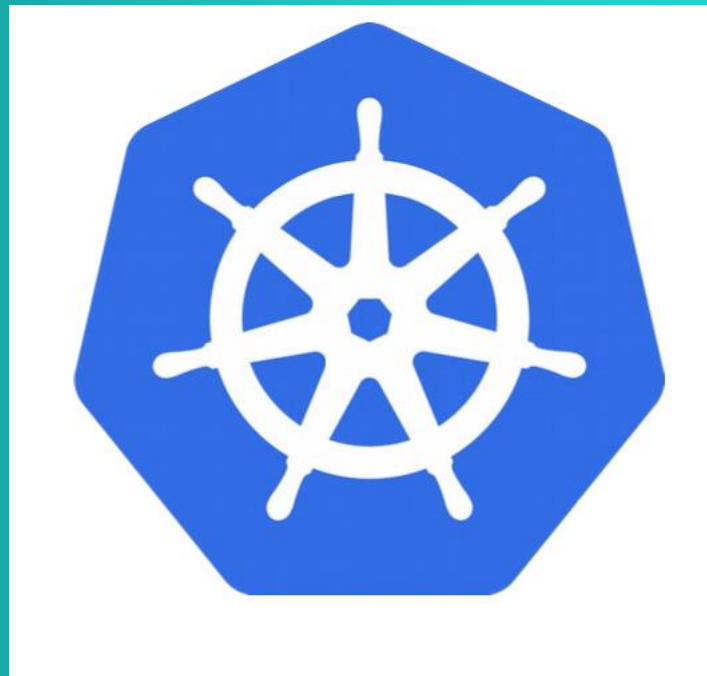
Kubernetes, is an open-source system for management of container based applications that **automates deployments, operations and scales containerized applications** across cluster of hosts.

Adoption of containers + Orchestration = eg.

Kubernetes

Change **from monolithic applications to container management stack,**

embracing the agile approach for accelerating development, testing and deployment of



Containerized Applications essentials

- **Faster development and deployment of applications;**
- **Auto-scalable** infrastructure;
- **Application-centric management**, maximum portability;
- A best fit for microservice-based-applications - each service is independently packaged and deployed as a container.

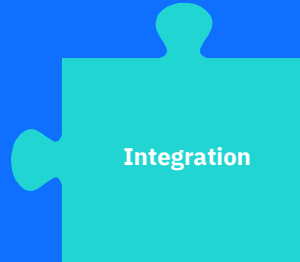
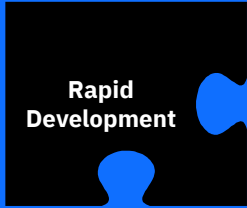


Containerized Applications essentials

- **Environment consistency** across development testing and production;
- Loosely coupled infrastructure, where each component can act as a **separate unit**;
- **Higher density** of resource utilization;
- **Predictable infrastructure** which is going to be created.



Competition advantages of IPC Contenerization



- Open Kubernetes-based container platform
- Cloud Foundry for app dev and deployment
- DevOps toolchain integration

- Integration capabilities to unlock and connect. Components like WebSphere, DB2 and MQ as container optimized versions where applications are built on top of it and can be connected via APIs
- Consistent experience across private/public

- Containerized versions of IBM Middleware.
- Secure access to public cloud services (AI, Blockchain) without extra investments
- Prescriptive guidance to optimize workloads
- Work with existing apps, data, skills, infrastructure

- Supports the deployment of applications that can span on and off premise environments securely.
- Core operational services including logging, monitoring, security
- Flexibility to integrate with existing tools and processes

Customer success story

Project Scope

A clearly articulated vision what project should achieve. In that case it was deployment IPC + migration first services to the containers.

Process to be change

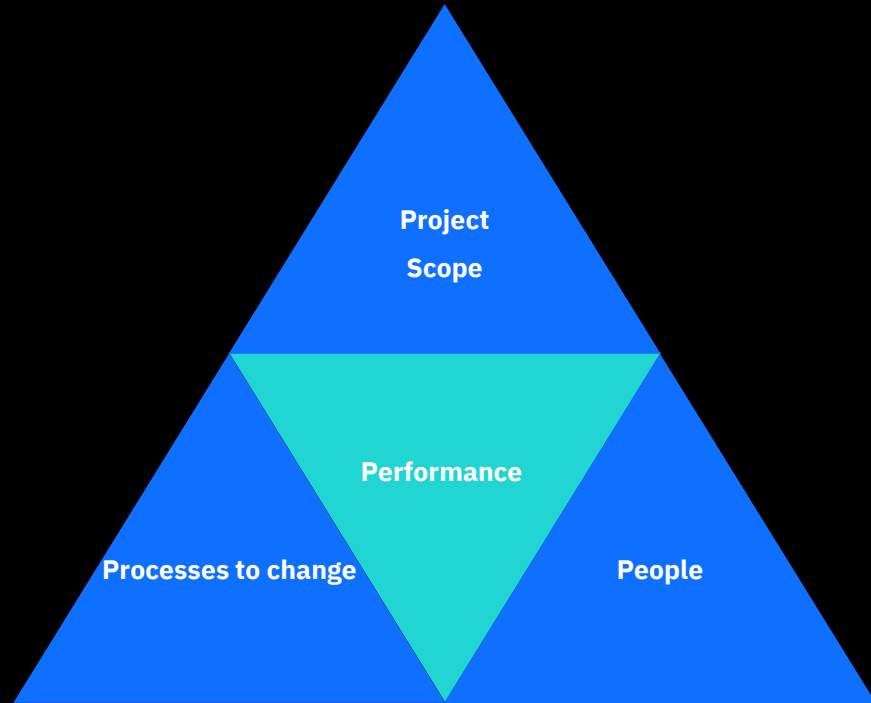
Processes, tools and technology to support the DevOps organization. Move from traditional approach to continous integration.

People

Investing in tranigns learn new methods of development . Understanding benefits of architecture and proper usage of that.

Performance

Mechanisms in place to plan and forecast workload, match capacity, and measure performance.



Thank you!

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