DESKPASS

QUESTION:

Systems like Kubernetes and Docker Swarm are the end result of years and years of effort spent slowly abstracting server resources from being "a single physical machine your app is running on" to "a distributed pool of generic resources any app can run on." What do you think the next level of server abstraction will look like in 10 years? How will web apps be deployed and managed a decade from now? Will container management systems such as Kubernetes still be used, or will there be another layer of abstraction used?

ANSWER:

As rightly mentioned (in the question above), container management systems *"are the end result of years and years of effort spent slowly abstracting server resources …"*, this in no doubt has resulted in portability, efficiency, agility, faster delivery, improved security, faster app startup, easy management, flexibility, and so on. Indeed, container management systems aren't going away - it will only get better, the question is: how?

The invention of another layer of abstraction is quite difficult to predict (even though there is nothing impossible in technology), however, I firmly believe that without the current container management systems at the foundational level or its transformation into something completely new, no new would emerge.

As such, I think WEB3 and Artificial Intelligence (AI) will greatly influence the next level of server abstraction over the next decade. In my view, I see a system in which all levels of software development would be totally abstracted, fully compartmentalized, and users influenced by the help of Artificial Intelligence (AI), through the active engagement of machine Learning (ML) and Deep Learning (DL).

In addition to providing an open-source platform for automating software deployment, scaling, management, shipping, and running applications, systems like Kubernetes and Docker Swarm will not only help separate your applications from your infrastructure in order to deliver software faster, but would metamorphose into more invisible architecture, contextual awareness, intelligent decision making, all powered by WEB3 technology and Artificial Intelligence.

There is no doubt that container management systems will experience exponential growth over the next decade - at a pace that would challenge even the most brilliant minds. The next big question is: where would I be in this intergalactic "Multiverse of Madness" called TECHNOLOGY?

By,
Oluwajoba Bello