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24 Oct 2022

CLOUDS Lab wins 2022 Oracle Excellence Award

Dr Mohammad Goudarzi, Research Assistant at the Cloud Computing and Distributed Systems (CLOUDS) Lab, Qifan Deng, a recent postgraduate from School of Computing and Information Systems, and Professor Rajkumar Buyya, a Redmond Barry Distinguished Professor and Director of the CLOUDS Lab, have been presented with the 2022 [Oracle Excellence](#)'s Cloud Architect of the Year Award.



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Lab, which is an open-source, container-based distributed framework.

The FogBus2 framework uses algorithms to analyse frames on the edge servers so that only those frames that are considered "red flags" are transmitted to the cloud for further processing. This can be done for a variety of purposes, including helping a shop owner capture surveillance footage to deter criminal activity or helping a patient monitor their ECG reading.

To create a multi-cloud, widely accessible, and secure service, the team recently began running FogBus2 on Oracle Cloud Infrastructure (OCI), utilising services like Oracle Autonomous Data Warehouse, Oracle Machine Learning Cloud Services, and Identity and Access Management. Additionally, it is using the OCI Arm Accelerator program, offered to a select group of open-source developers, research institutions, business partners and private companies to run workloads on OCI Ampere A1 Compute and other OCI services.

Following successful FogBus2 experimental deployments, the research team anticipates increased interest in real-world IoT deployments of open-source software. The researchers are also investigating blockchain and federated learning applications on the FogBus2 framework to enhance delivery of trustable services.

[The Cloud Architect of the Year Award](#) is presented to architects who have proven their thorough understanding of Oracle's cloud offering and delivered clear, actionable strategies that lead to successful cloud installations.

Congratulations to the CLOUDS Lab team members: Mohammad, Qifan, and Raj!

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