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## Oracle for Data Science –A Vision for CS3MESH Connector

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A year ago it was noted “Oracle is now keen on collaborating with the CS3 community as part of its open research engagement campaign...” Indeed, our recently announced Oracle for Research program intends to collaborate with academic researchers closer than ever. It primarily offers researchers, scientists and university-associated innovators access to Oracle Cloud technology and also a global community working to address complex problems and drive meaningful change in the world.

### **Oracle HPC Cloud and Data Science Platform**

Oracle Cloud Infrastructure offers exceptional performance, security, and control for today’s most demanding high-performance computing (HPC) research workloads. Oracle Data Science Cloud –recently acquired –is a collaborative platform for data scientists to build and manage ML models. Oracle supports both Jupyter and Zeppelin notebooks for real-time collaborative research cases, but how about sharing files and folders with co-workers?

### **Box Connector for Oracle Integration Cloud**

At OOW’19 Oracle announced the collaboration with Box [3] that will allow customers to connect their cloud and on-premises Oracle and third-party applications with Box via Oracle Integration. Through this integration, enterprise customers will be able to seamlessly connect applications with Box as their unified cloud content management layer to power secure collaboration and workflows around their most valuable content in the cloud. This is all about the Business User, but how about the Researcher?

### **Let’s work towards a CS3 connector for Oracle Infrastructure Cloud**

The CS3 Community’s vision is that a flexible CS3MESH federation across installations will promote global scientific collaboration and integration, avoiding disconnection of infrastructures. The project, called CS3MESH, aims to build a global interoperable mesh of synchronization and sharing cloud services as part of the European Open Science Cloud by federating cloud storage sites and software providers around the world [4].

Some of the research data though is gradually moving towards public cloud services where certain research workflows can be executed at an attractive price-performance level. Oracle and CERN have been collaborating for more than 15 years in the context of the CERN Openlab initiative in order to assess public cloud solutions.

The conceptual diagram above (Fig. 3) depicts a possible scenario where a specific CS3 connector can be built for the CS3MESH project and implemented in the Oracle Integration Cloud could provide a bridge for scientific workloads being executed in a hybrid community/public cloud ecosystem.

Oracle is keen on investigating this deployment scenario and the potential research collaboration opportunity with CS3 further.

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