



# Challenge Labs for BigData

## A Case Study

### Business Problem

A midsize IT services company wants to assess close to a thousand of its employees annually for their skills in Big Data technologies such as Spark. The assessment window is for 3 hours, the datasets that are to be used are usually around 2 to 3 GB in size, and in some cases can be even higher. The challenges need to refresh every 3 months. The employees also need a hands-on environment to solve the challenge.

### Existing Solution

The challenges or problem statements are set by SMEs at the customer organization. The labs are provided by Nuvepro. The employees on completion of the challenge, inform the L&D team, who in turn work with the SME to get the submission evaluated manually.

Overall, this has led to:

- Challenges not getting refreshed based on the time as it is based on availability of the SMEs.
- Challenges not being evaluated on time, again related to the availability of the SMEs.

### Our Solution

- Nuvepro worked with Big Data Industry experts to create a bank of challenges. These experts designed the test scripts for automatically assessing the submissions
- These challenges were uploaded into the Nuvepro Challenge Labs platform
- Each of the employees going through an evaluation got a login to the Nuvepro Challenge Labs platform
- The employees were thrown a challenge which needs to be solved in the accompanying labs interface.
- After the employee completes solving the challenge, the submission was evaluated – initially this is done manually for a couple of cycles, before the entire process is automated

## Benefits

Nuvepro enabled the client to achieve the following benefits:

- The challenges are now created and refreshed on a regular basis
- The assessment results are shared with in a short duration of time after the submission by the employee
- The L&D team can offer the challenge to the employees without being constrained by the availability of the SME

## Going forward

Nuvepro is in the process of adding further value by executing the following activities: :

- Integration of the Nuvepro Guided Labs platform in the customer's LMS
- While the current challenge is like a capstone project, the customer would like to now provide smaller challenges to gauge the learning on a continuous basis. These smaller challenges can help detect any issues with the training rather than wait for the capstone project to be completed.