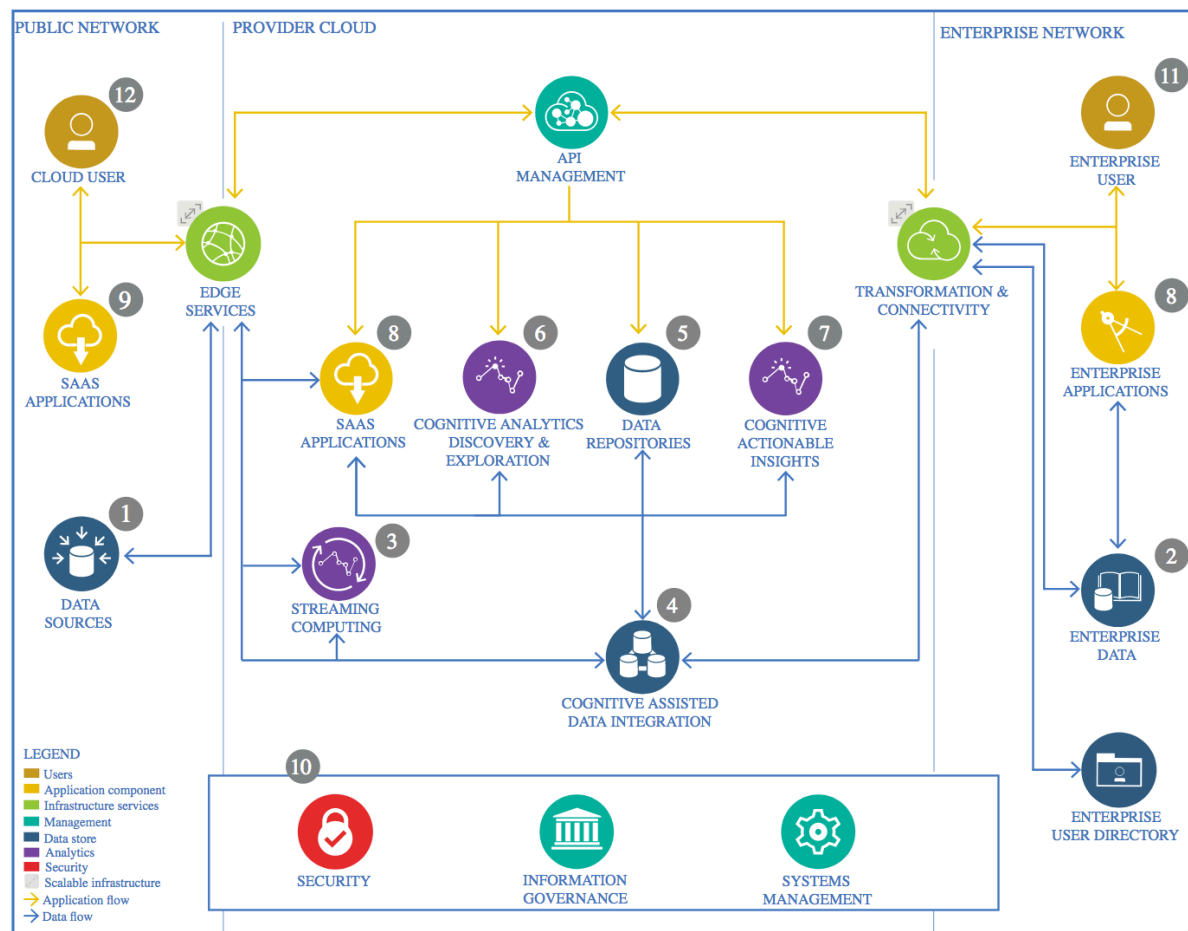# The Lightweight IBM Cloud Garage Method for Data Science

Architectural Decisions Document Template

1   Architectural Components Overview

IBM Data and Analytics Reference Architecture. Source: IBM Corporation

1.1   Data Source

1.1.1   Technology Choice
Kaggle to get Dataset

1.1.2   Justification
On Kaggle.com we have many datasets ready for use. So we don't need to work too hard on the data.

1.2   Enterprise Data

1.2.1   Technology Choice

1.2.2   Justification
Not needed because our data is public.

1.3   Streaming analytics

1.3.1   Technology Choice
Using IBM Watson Studio

1.3.2   Justification
Using a notebook on the cloud is a faster choice, since we don't need to install many resources in our computers.

1.4   Data Integration

1.4.1   Technology Choice
IBM Cloud

1.4.2   Justification
IBM Cloud offer many resources on the cloud as well analytics straight in our data.

1.5   Data Repository

1.5.1   Technology Choice
IBM Cloud

1.5.2   Justification
IBM Cloud offers many databases. NoSql database Cloudant Databse…

1.6   Discovery and Exploration

1.6.1   Technology Choice
IBM Cloud

1.6.2 Justification
IBM Cloud offer many resources on the cloud as well analytics straight in our data.

1.7 Actionable Insights

1.7.1 Technology Choice
IBM Watson Studio

1.7.2 Justification
We can use Jupyter notebook to demonstrate our insights from our data

1.8 Applications / Data Products

1.8.1 Technology Choice

1.8.2 Justification
We are not deploying one application for this moment. Just one API

1.9 Security, Information Governance and Systems Management

1.9.1 Technology Choice
IBM Cloud

1.9.2 Justification
We can use IBM Cloud to deploy our API.