15-619
Cloud Computing

15-619 Project Overview

Recitation 10

October 29\textsuperscript{nd} and Nov 1\textsuperscript{st}, 2013
619 Project Overview

• For students who enrolled in 15-619
  – Since 12 units, an extra project worth 3-units.

• A **team project** for a team no more than 3 students.
  – Fill in the team information [online](#).
  – No team, advertise your skills on Piazza.
  – The team registration is due on **Friday, Nov 1\(^{st}\)**.
619 Project Overview

What is the project about

– A client has approached your company and several other companies to compete on a project to build a web service for Twitter data analysis.
– Your company needs to build a web service that meets the requirements of the customer.
– It will be a bidding process, meaning you will compete with other companies.
  • Other companies = other 15-619 groups.

• Project description can be found here.
  – This is an active document, keep checking for updates.
619 Project Overview

• What you are given:
  – A Twitter data set stored on S3 (~100GB)
  – Customer requirements
    • Business Requirement (Query types)
    • Minimum Performance Requirement (Throughput)
  – Cost Constraints
    • If you overrun your budget you will receive a disqualification penalty
    • Design and plan before you execute
619 Project Overview

• What you are asked to do
  – Build a web service
    • Preprocess the data and store them
    • Process queries from customer and send a response
  – Explore solutions to win the bid
    • Front End and Back End

Details are articulated in the project description.
619 Project Evaluation

• Development period
  – Development, evaluation, exploration, optimization

• Live test period
  – A comparison of cost, throughput and latency between all submitted web services
Tag Your Instances

• From now on all the AWS resources and EC2 instances you launch in this course have to be labeled with a tag

• Why Tagging?
  – To categorize instances for different purposes
    • Production / Development / Testing...
    • OLI Projects / 15-619 Project
  – To have a clearer billing report!!
    • For cost control and monitoring purposes in this class
Tag Your Instances

• The tag format for 619 project:

<table>
<thead>
<tr>
<th>Tag Key</th>
<th>Tag Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>15619_Group</td>
<td>The Name of your Project Group (e.g. “1337_team”)</td>
</tr>
<tr>
<td>15619_Step</td>
<td>The step that you are currently performing in the Project (e.g. 1, 2, 3, 4, 5 or 6)</td>
</tr>
</tbody>
</table>

• For Your OLI projects

<table>
<thead>
<tr>
<th>Tag Key</th>
<th>Tag Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC_OLI_Project</td>
<td>Module title in lower case (e.g. vertical scaling)</td>
</tr>
</tbody>
</table>
Tag Your Instances

• Demo
  – Create IAM Role
  – Tag your instances **before** launching
  – Check your tags