

GAE → Google App Engine
Java based product

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- ① It is a Java cloud-computing provided by google
- ② It allows developer to build and host web appm on google infrastructure (platform)
- ③ e.g. Amazon

Elastic Compute Cloud (EC2)

- ④ It provides free resources to.
- ① CPU (processor)
- ② Storage
- ③ API calls.

⑤ How GAE used?

- ① Fully managed & serverless platform which is used to host, build and deploy web appm
- ② Used to test the code in cloud
- ③ User create GAE account to write appm source code

⑥ Key features:

- ① API selection
- ② Manage Infrastructure
- ③ Several programming language (python, java, ruby, node.js, net)
- ④ Security features
- ⑤ Appm diagnosis

⑦ steps to install Google SDK

Software Development Kit

- ① Download google cloud sdk installer
- ② install it
- ③ Open cloud sdk

yaml → yet another markup language



- ④ run 'gcloud init'
- ⑤ create new configuration
- ⑥ (test.py file)
- ⑦ (app.yaml file)
- ⑧ save test.py and app.yaml in same folder
- ⑨ run

py google-cloud-sdk\bin\Xdev-appserver.py " " " "

Folder path

* CloudSim

- ① It is the open-source framework
- ② It is used to simulate cloud computing infrastructure and server services.
- ③ developed by CLOUDS lab organization
- ④ entirely written in java
- ⑤ Eg: If you want to deploy website or web app/ API on a cloud and wanted to test the services and load that product your product can handle and also tune its performance to overcome bottleneck during deployment

⑥ Scheduling in cloud:

- As cloud computing is the virtualized Operating environment and VM are primary computing components which is responsible for execution of work loads (task)
- VM are powered by physical no server host machine hardware

⑦ Scheduling in cloudsim

⑧ Installation of cloudsim

⑨ classes user during stimulation

- ① datacenter
- ② Host
- ③ VM
- ④ cloudlet
- ⑤ cloudsim
- ⑥ datacenter broker

Installation Steps

- ① Install cloudsim installer from github (3.0.3 or 4.0)
<https://github.com/Cloudslab/cloudsim/releases>
- ② Eclipse IDE installer for java developer
<https://www.eclipse.org/downloads>
- ③ Java development kit (1.6 or 1.7)
(if not available on your desktop)
- ④ Extract 2 files:
 - ① cloudsim installer
 - ② eclipse installer
- ⑤ Open eclipse and create new java project
- ⑥ ~~File~~ →
file → new → java project → write project name
→ use execution environment JRE → Went → JRE system
library → add external file (where you can extract
cloud sim: 3.0.3 or 4.0) → Arish
- ⑦ Import cloudsim project into new java project.