How to do Load testing with Jmeter

How to run Load test for Metadata Service:

Pre-Requisites :

1. This Load testing depends on Mock service for mocking dependent service, for that need to make following changes in **OalepmMetadataService** and **OalepmFactService** properties file.

- **Metadata Service Changes:**
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  a. Login to **OalepmMetadataService** ALM repository
  https://alm.oraclecorp.com/oal/#projects/gxp/scm/OalepmMetadataService.git/commits/?revision=epm-build
  b. clone the current deployed epm-build and make following changes in "oalepm_mdt_properties.sql" properties file.
  File Path : **/auto-sql-sqlplus/phase-10/OALEPM/oalepm_mdt_properties.sql**

Change following 3 properties :

Before	After
1. oalcn.oalcn_config_setup.merge_config('oalepm-metadata-service','uat1','oalepm-metadata.metadata-service.oalepm-drm.baseurl','https://gxpdt.oracle.com/oalapp/services/oalcn-svc-gateway/api/epm-drm'); 2. .oalcn.oalcn_config_setup.merge_config('oalepm-metadata-service','uat1','oalepm-metadata.essbase.hostUrl','epmat.oracle.com'); 3. oalcn.oalcn_config_setup.merge_config('oalepm-metadata-service', null,'file-upload-service.endpoint.filestores','oalapp/services/oalcn-svc-gateway/api/flupldr/filestores');	1. oalcn.oalcn_config_setup.merge_config('oalepm-metadata-service','uat1','oalepm-metadata.metadata-service.oalepm-drm.baseurl','https://gxpdt.oracle.com/oalapp/services/oalepm-mock'); 2. oalcn.oalcn_config_setup.merge_config('oalepm-metadata-service','uat1','oalepm-metadata.essbase.hostUrl','gxpdt.oracle.com/oalapp/services/oalepm-mock'); 3. oalcn.oalcn_config_setup.merge_config('oalepm-metadata-service',null,'file-upload-service.endpoint.filestores','oalapp/services/oalepm-mock/fileuploader/v1.0/filestores');

- c. Commit and Push the changes to epm-build and deploy the service in GXPDT dev env.
- **Change for Fact Service:**

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  a. Login to OalepmFactService.git ALM repository
  https://alm.oraclecorp.com/oal/#projects/gxp/scm/OalepmFactService.git/commits/?revision=epm-build

  b. Clone the current deployed epm-build and make following changes in "oalepm_fct_properties.sql" properties file.
  File Path : /auto-sql-sqlplus/phase-10/OALEPM/oalepm_fct_properties.sql

Change following 3 properties :

Before	After
oalcn.oalcn_config_setup.merge_config('oalepm-fact-service','uat1','oalepm-fact.essbase.hostUrl','epmat.oracle.com');	oalcn.oalcn_config_setup.merge_config('oalepm-fact-service','uat1','oalepm-fact.essbase.hostUrl','gxpdt.oracle.com/oalapp/services/oalepm-mock');
oalcn.oalcn_config_setup.merge_config('oalepm-fact-service',null,'file-upload-service.endpoint','oalapp/services/oalcn-svc-gateway/api/flupldr/filestores');	oalcn.oalcn_config_setup.merge_config('oalepm-fact-service',null,'file-upload-service.endpoint','oalapp/services/oalepm-mock/fileuploader/v1.0/filestores');

c. Commit and Push the changes to epm-build and deploy the service in GXPDT dev env.

Follow the steps to run the Load Test Plan using JMeter

1. Install the latest version of Apache JMeter in your system -> download the Binaries -> apache-jmeter-.zip file.(https://jmeter.apache.org/download_jmeter.cgi)
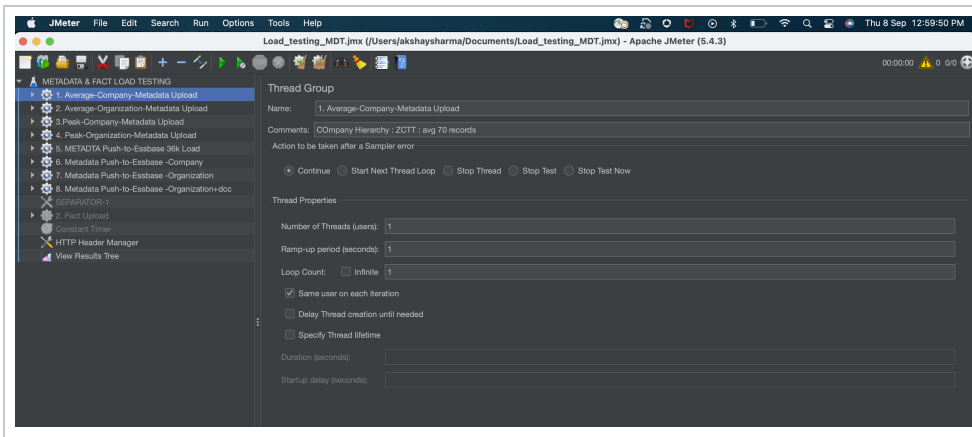   Unzip the folder and open a terminal at bin folder.
2. Now, in the terminal type the command ./jmeter
3. This will start the JMeter in GUI mode.
4. Open the jmx script downloaded from Repository in JMeter
5. Each Thread group has its description and load mentioned for which it is sending request.

6. You can now start the Load Test. To do so, you would first want to make sure each of the requests are individually running successfully as expected. To do that, go to the Thread group -> right click -> Add -> Listener -> View Result Tree. On a trial run with the GUI (click the green arrow button on the top toolbar) you should see at least one successful run for each request in the Listener Except for check request which loops in till previous request succeed.

View Result Tree : SnapShot