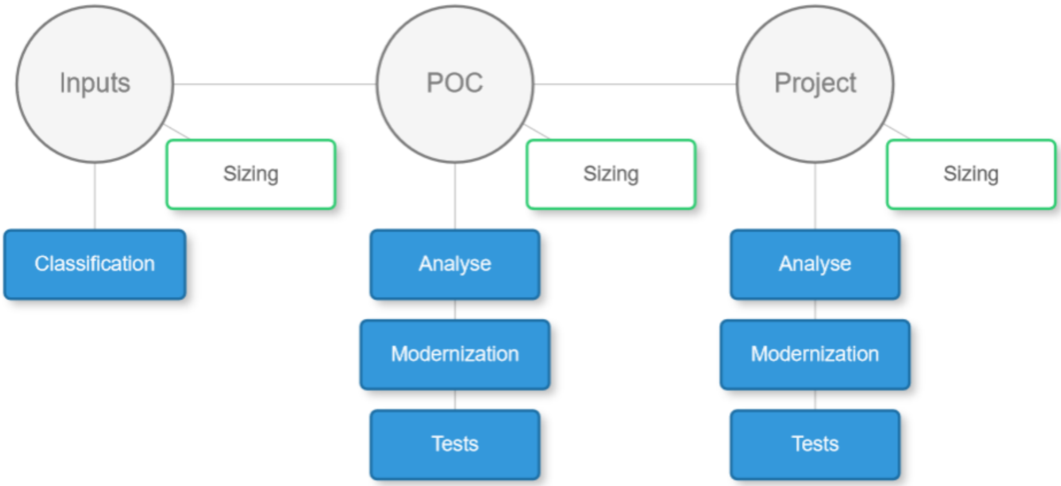
Blugenius User Documentation

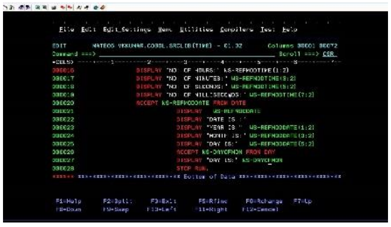


Contents

1. What is Bluage Velocity?

BLU AGE provides tools and services that modernize legacy mainframe and client-server applications to modern cloud ready architecture more quickly and efficiently than any other solution.

The tool we are using today is Velocity, a fully automated modernization solution for transforming COBOL into high quality object oriented Java.



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 File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help

EDIT       NATEOS VKKUMAR.COBOL.SRCLIB(TIME) - 01.32       Columns 00001 00072
Command ===> ____________________________________________  Scroll ===> CSR
=COLS> ----+----1----+----2----+----3----+----4----+----5----+----6----+----7--
000016             DISPLAY "NO  OF HOURS:' WS-REFMODTIME(1:2)
000017             DISPLAY "NO  OF MINUTES:' WS-REFMODTIME(3:2)
000018             DISPLAY "NO  OF SECONDS:' WS-REFMODTIME(5:2)
000019             DISPLAY "NO  OF MILLISECONDS:' WS-REFMODTIME(7:2)
000020             ACCEPT WS-REFMODDATE FROM DATE
000021                        DISPLAY   WS-REFMODDATE
000022                        DISPLAY 'DATE IS :'
000023                        DISPLAY "YEAR IS "  WS-REFMODDATE(1:2)
000024                        DISPLAY 'MONTH IS:' WS-REFMODDATE(3:2)
000025                        DISPLAY 'DAY IS:'   WS-REFMODDATE(5:2)
000026                        ACCEPT WS-DAYOFMON FROM DAY
000027                        DISPLAY 'DAY IS:' WS-DAYOFMON
000028                        STOP RUN.
****** ***-****-****-****-****-** Bottom of Data ***-****-****-****-****-**

 F1=Help      F2=Split     F3=Exit      F5=Rfind     F6=Rchange   F7=Up
 F8=Down      F9=Swap     F10=Left     F11=Right    F12=Cancel
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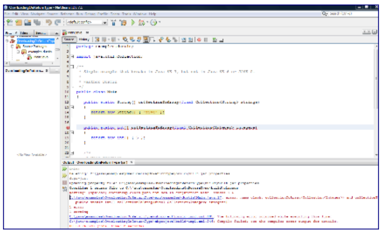
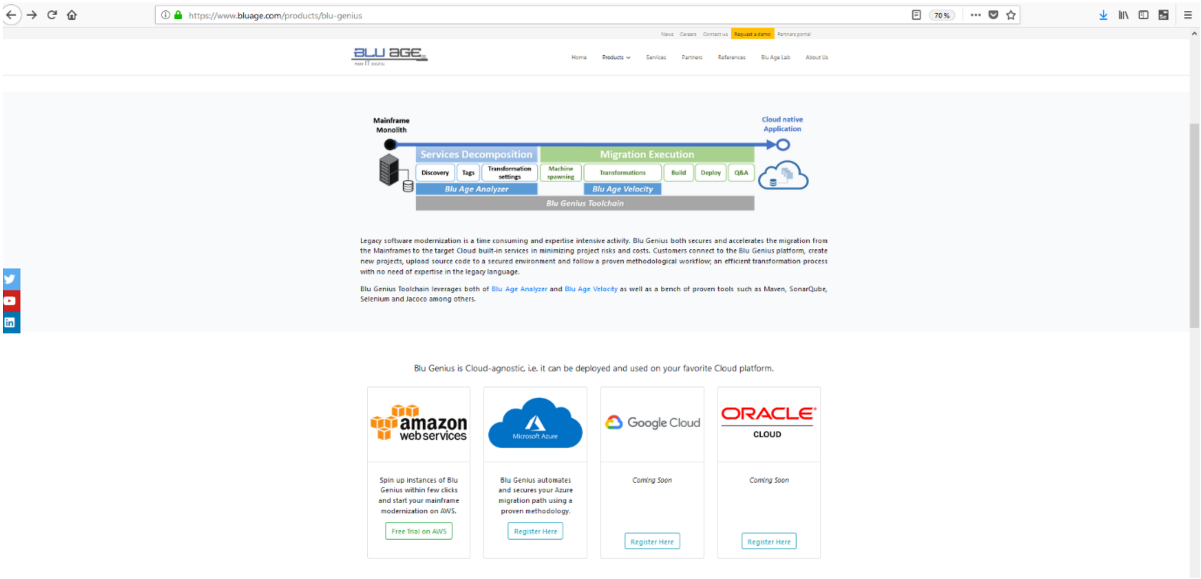
Bluage Velocity



2. What is Blugenius?

Blugenius is a portal that allows us to perform Velocity projects directly to the Cloud.



Legacy software modernization is a time consuming and expertise intensive activity. Blu Genius both secures and accelerates the migration from the Mainframes to the target Cloud built-in services in minimizing project risks and costs. Customers connect to the Blu Genius platform, create new projects, upload source code to a secured environment and follow a proven methodological workflow; an efficient transformation process with no need of expertise in the legacy language.

Blu Genius Toolchain leverages both of Blu Age Analyzer and Blu Age Velocity as well as a bench of proven tools such as Maven, SonarQube, Selenium and Jacoco among others.

Blu Genius is Cloud-agnostic. i.e. it can be deployed and used on your favorite Cloud platform.

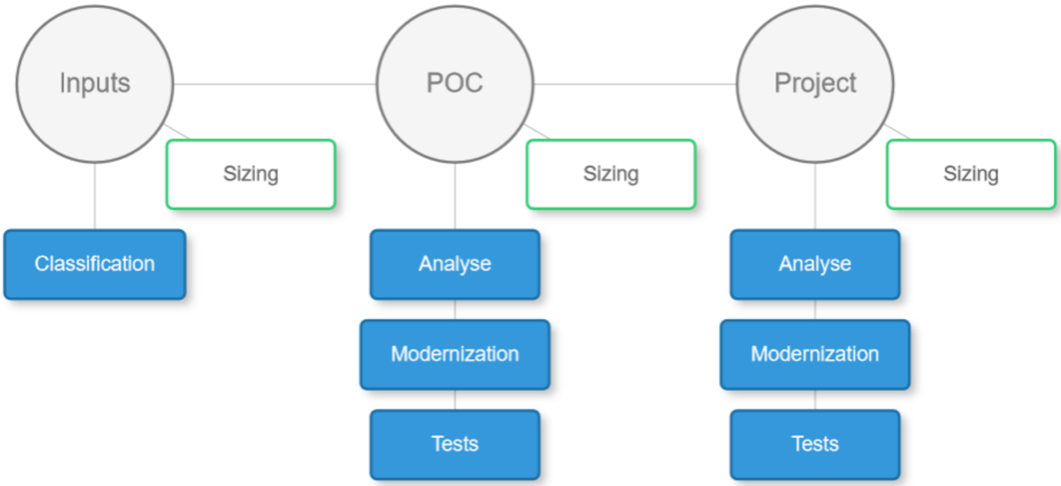
Spin up instances of Blu Genius within few clicks and start your mainframe modernization on AWS.

Blu Genius automates and secures your Azure migration path using a proven methodology.

Coming Soon

Coming Soon

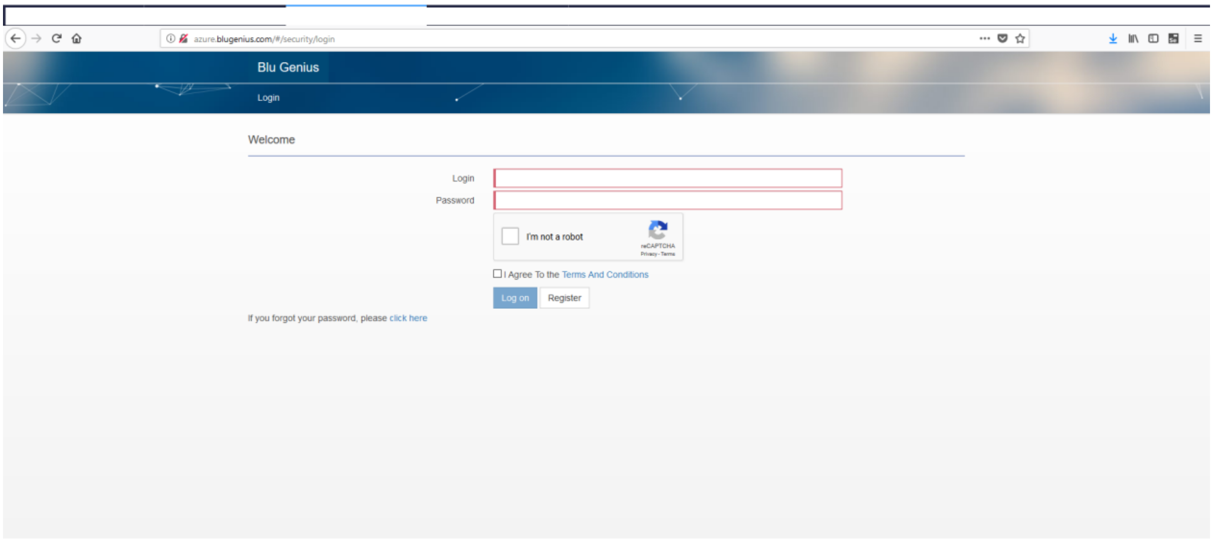
Blugenius processes the modernization of your legacy applications through different and easy to follow steps.



3. Blugenius modernization

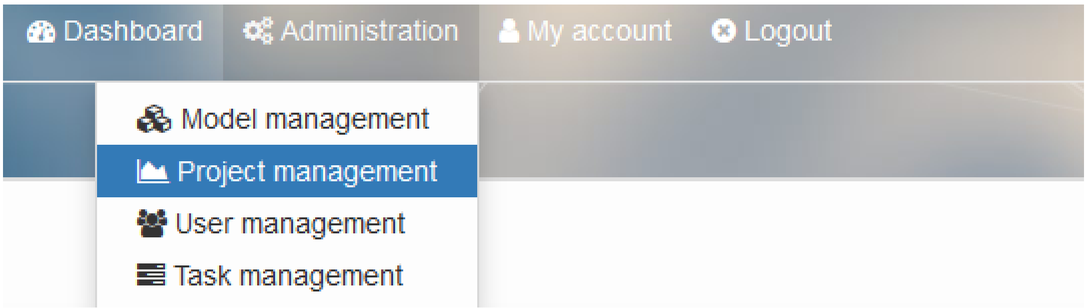
3.1 Log in the Blugenius application

From the Blugenius portal, the first step you have to do is choosing your Cloud provider (AWS, Azure). After that, you need to log in the application with the credentials given to you once you have registered in the portal for the first time.


azure.blugenius.com/#/security/login
Blu Genius
Login
Welcome
Login
Password
I'm not a robot
reCAPTCHA
Privacy - Terms
□ I Agree To the Terms And Conditions
Log on
Register
If you forgot your password, please click here

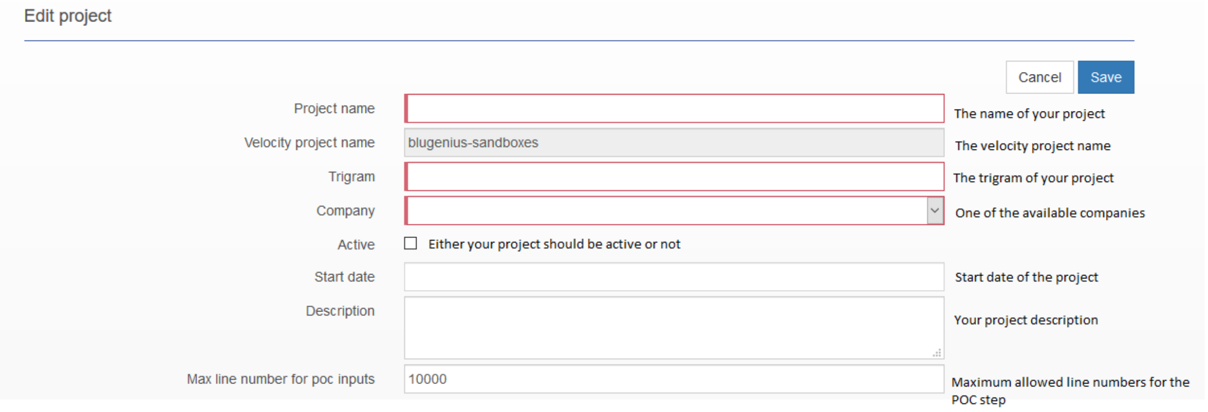
3.2 Setup your project

To modernize via Blugenius, you first need to create a project and configure it. To do so, go under the "administration->project management" menu.



Then click on the "Create new project" button. In the displayed page, you need to enter different information.

The first section contains general parameters:

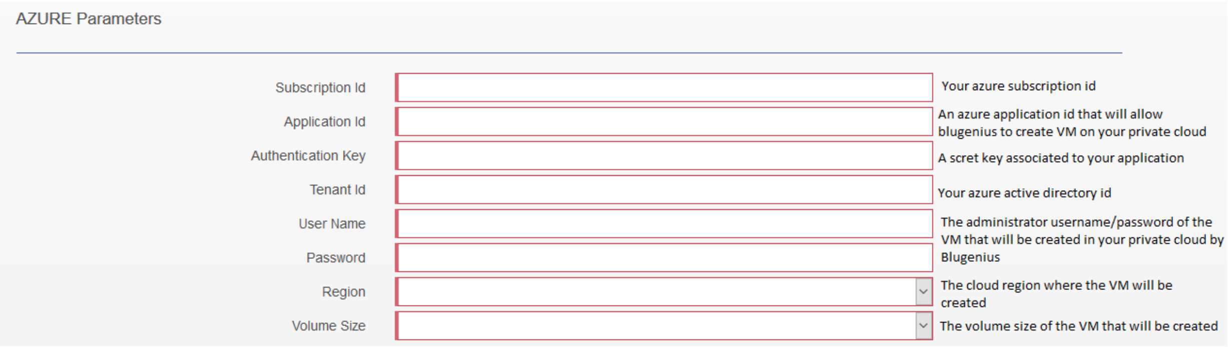


Edit project

Project name		The name of your project
Velocity project name	blugenius-sandboxes	The velocity project name
Trigram		The trigram of your project
Company		One of the available companies
Active	□ Either your project should be active or not	
Start date		Start date of the project
Description		Your project description
Max line number for poc inputs	10000	Maximum allowed line numbers for the POC step

Make sure you click “Active” so that your project will show up in the dashboard.

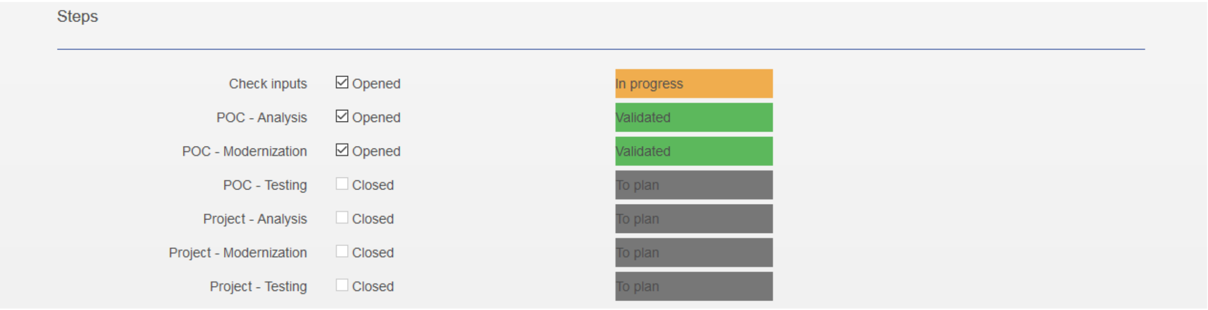
The next section contains information specific to your cloud provider:



AZURE Parameters

Subscription Id		Your azure subscription id
Application Id		An azure application id that will allow blugenius to create VM on your private cloud
Authentication Key		A scret key associated to your application
Tenant Id		Your azure active directory id
User Name		The administrator username/password of the VM that will be created in your private cloud by Blugenius
Password		
Region		The cloud region where the VM will be created
Volume Size		The volume size of the VM that will be created

The last section enables you to activate different steps of the process that you wish to perform. The first three steps are available in the sandbox now.

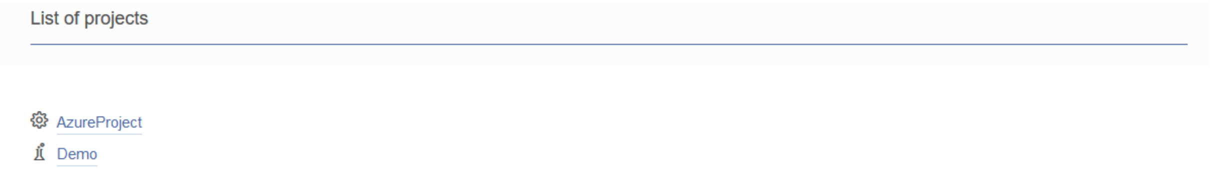


Steps

Check inputs	☑ Opened	In progress
POC - Analysis	☑ Opened	Validated
POC - Modernization	☑ Opened	Validated
POC - Testing	□ Closed	To plan
Project - Analysis	□ Closed	To plan
Project - Modernization	□ Closed	To plan
Project - Testing	□ Closed	To plan

Once the project is setup, click on the “Save” button at the right top of the page.

You can now go to the “Dashboard” where you will see your project listed on the left.

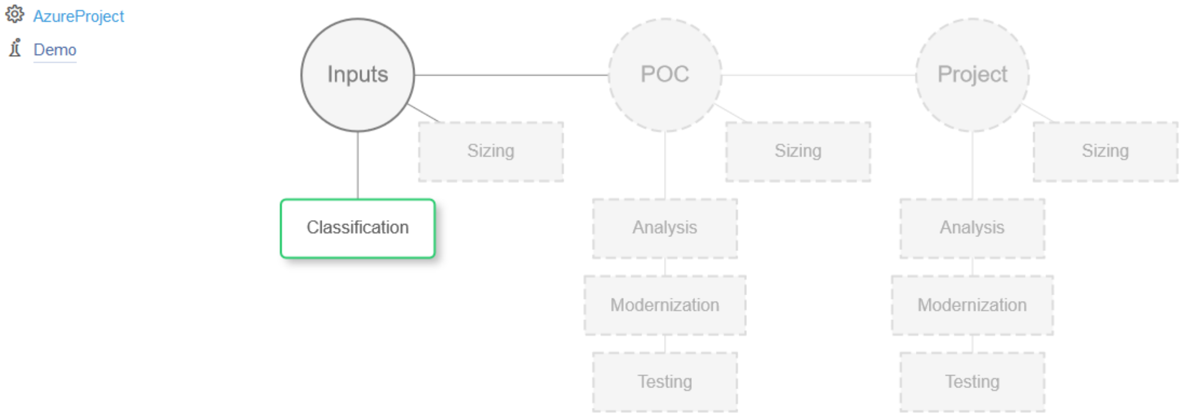


List of projects

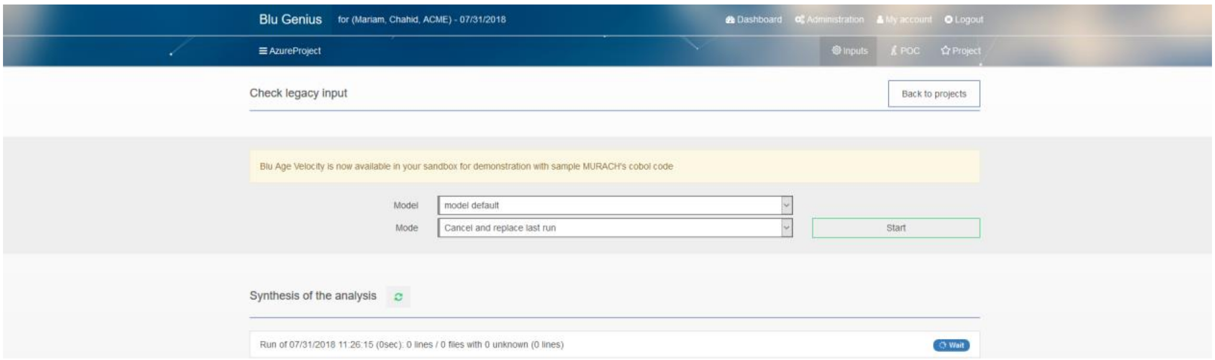
- AzureProject
- Demo

3.3 Classification

The first step is the classification.



This step checks the eligibility of the legacy inputs.
In the sandbox mode, the files of a demo project have already been uploaded, so you just need to start the classification. In normal mode, you will need to upload your own inputs in a ".zip" or ".7z" format.



Blu Genius for (Mariam, Chahid, ACME) - 07/31/2018

Check legacy input

Blu Age Velocity is now available in your sandbox for demonstration with sample MURACH's cobol code

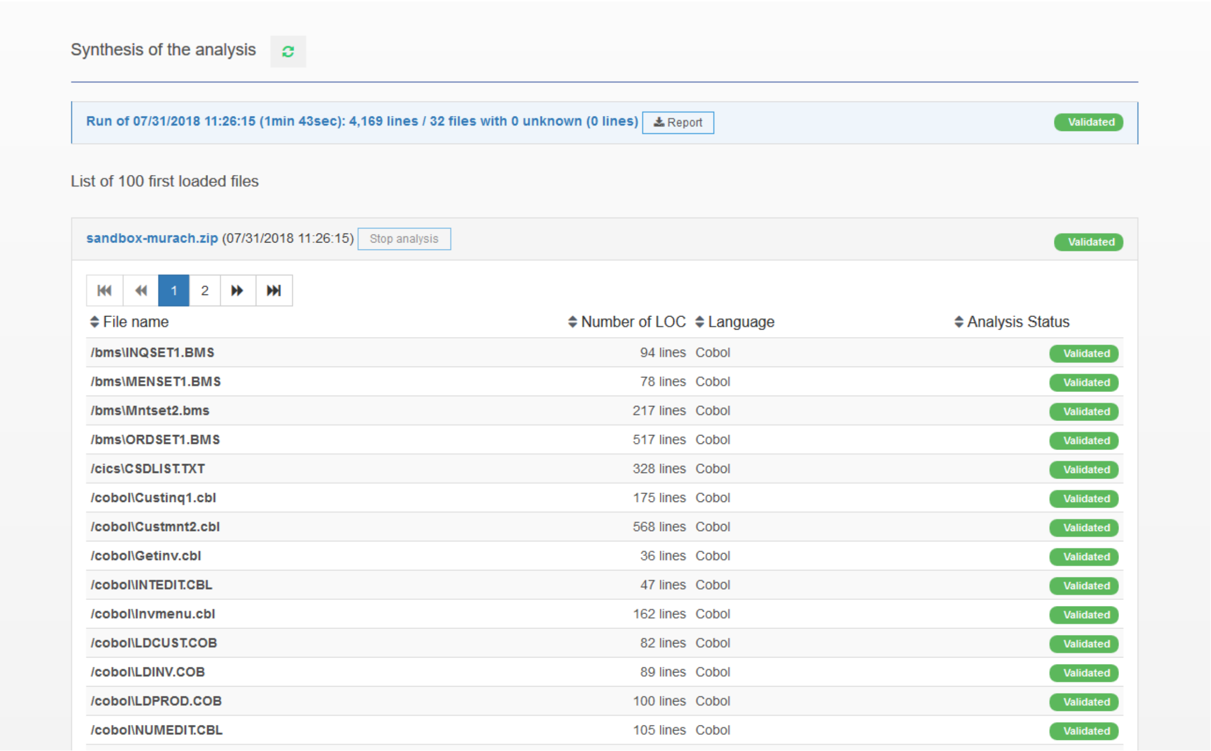
Model: model default

Mode: Cancel and replace last run

Synthesis of the analysis

Run of 07/31/2018 11:26:15 (0sec): 0 lines / 0 files with 0 unknown (0 lines)

This step uses a classification engine built on machine learning and Tensorflow library from Google. It will give you an accurate line of code count and you will receive a confirmation email once the process is over. In Blugenius, you can see the classification result and also download the classification report, which is an excel file containing the same information displayed.



Synthesis of the analysis

Run of 07/31/2018 11:26:15 (1min 43sec): 4,169 lines / 32 files with 0 unknown (0 lines) Report Validated

List of 100 first loaded files

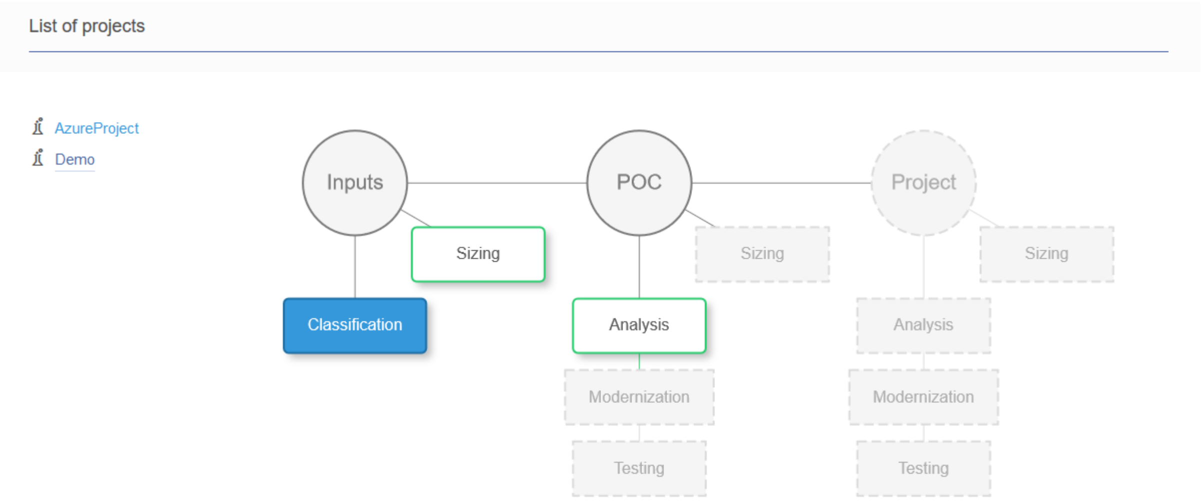
sandbox-murach.zip (07/31/2018 11:26:15) Stop analysis Validated

⏮ ⏪ 1 2 ⏩ ⏭

File name	Number of LOC	Language	Analysis Status
/bms\INQSET1.BMS	94 lines	Cobol	Validated
/bms\MENSET1.BMS	78 lines	Cobol	Validated
/bms\Mntset2.bms	217 lines	Cobol	Validated
/bms\ORDSET1.BMS	517 lines	Cobol	Validated
/cics\CSDLIST.TXT	328 lines	Cobol	Validated
/cobol\Custinq1.cbl	175 lines	Cobol	Validated
/cobol\Custmnt2.cbl	568 lines	Cobol	Validated
/cobol\Getinv.cbl	36 lines	Cobol	Validated
/cobol\INTEDIT.CBL	47 lines	Cobol	Validated
/cobol\Invmenu.cbl	162 lines	Cobol	Validated
/cobol\LDCUST.COB	82 lines	Cobol	Validated
/cobol\LDINV.COB	89 lines	Cobol	Validated
/cobol\LDPROD.COB	100 lines	Cobol	Validated
/cobol\NUMEDIT.CBL	105 lines	Cobol	Validated

3.4 Sizing

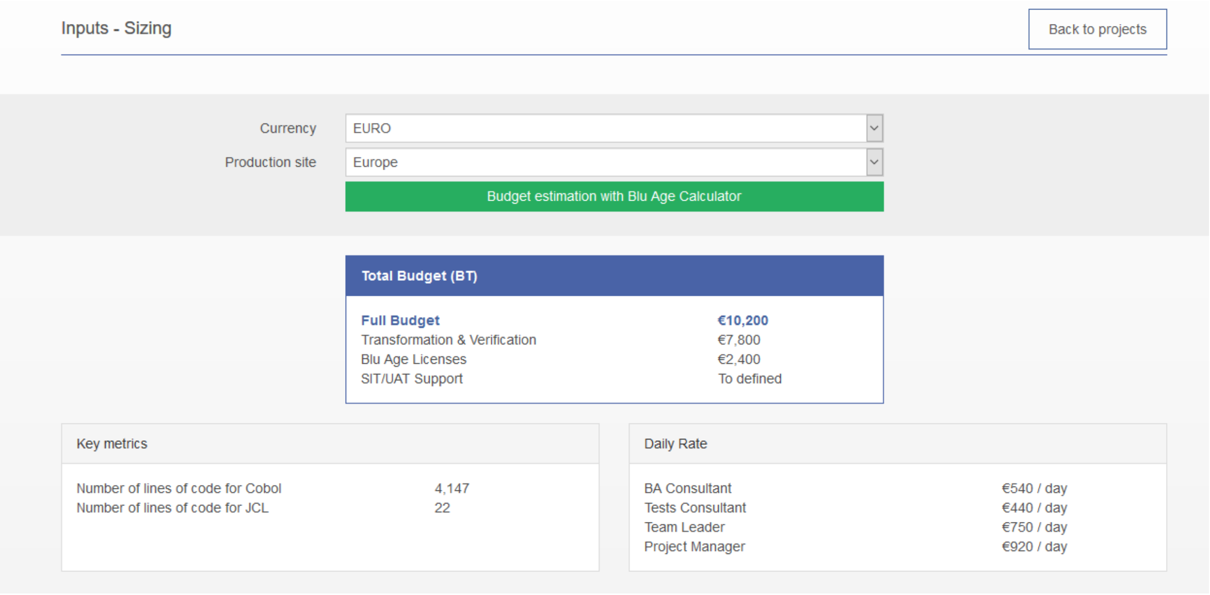
Once the classification is done when you go back to the dashboard, you will have access to more options.



List of projects

- AzureProject
- Demo

First of the newly activated options is the sizing tool. It will help you build a basic budget. To have a more customizable version of the pricing tool, go to www.bluage.com/evaluate.



Inputs - Sizing

Back to projects

Currency: EURO

Production site: Europe

Budget estimation with Blu Age Calculator

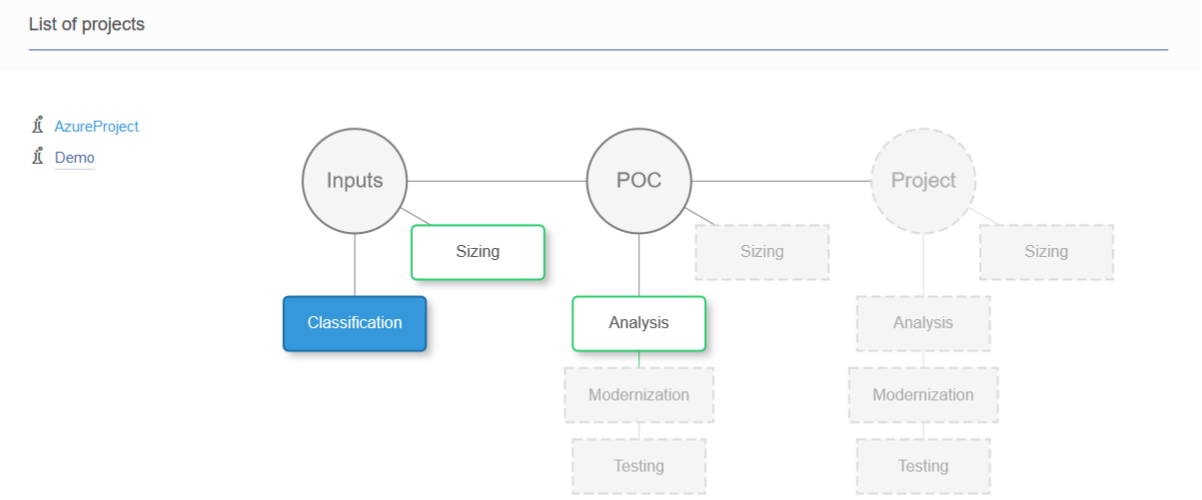
Total Budget (BT)	
Full Budget	**€10,200**
Transformation & Verification	€7,800
Blu Age Licenses	€2,400
SIT/UAT Support	To defined

Key metrics	
Number of lines of code for Cobol	4,147
Number of lines of code for JCL	22

Daily Rate	
BA Consultant	€540 / day
Tests Consultant	€440 / day
Team Leader	€750 / day
Project Manager	€920 / day

3.5 POC Analysis

The analysis step is the first stage in the velocity modernization process.

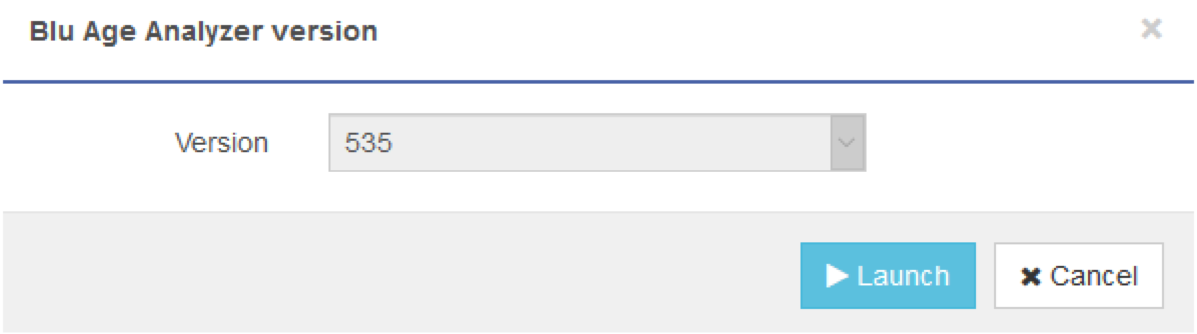


List of projects

This step launches the analyzer tool which will perform a detailed analysis of the inputs (dependencies, used programs, files categorization, cyclomatic complexity…).

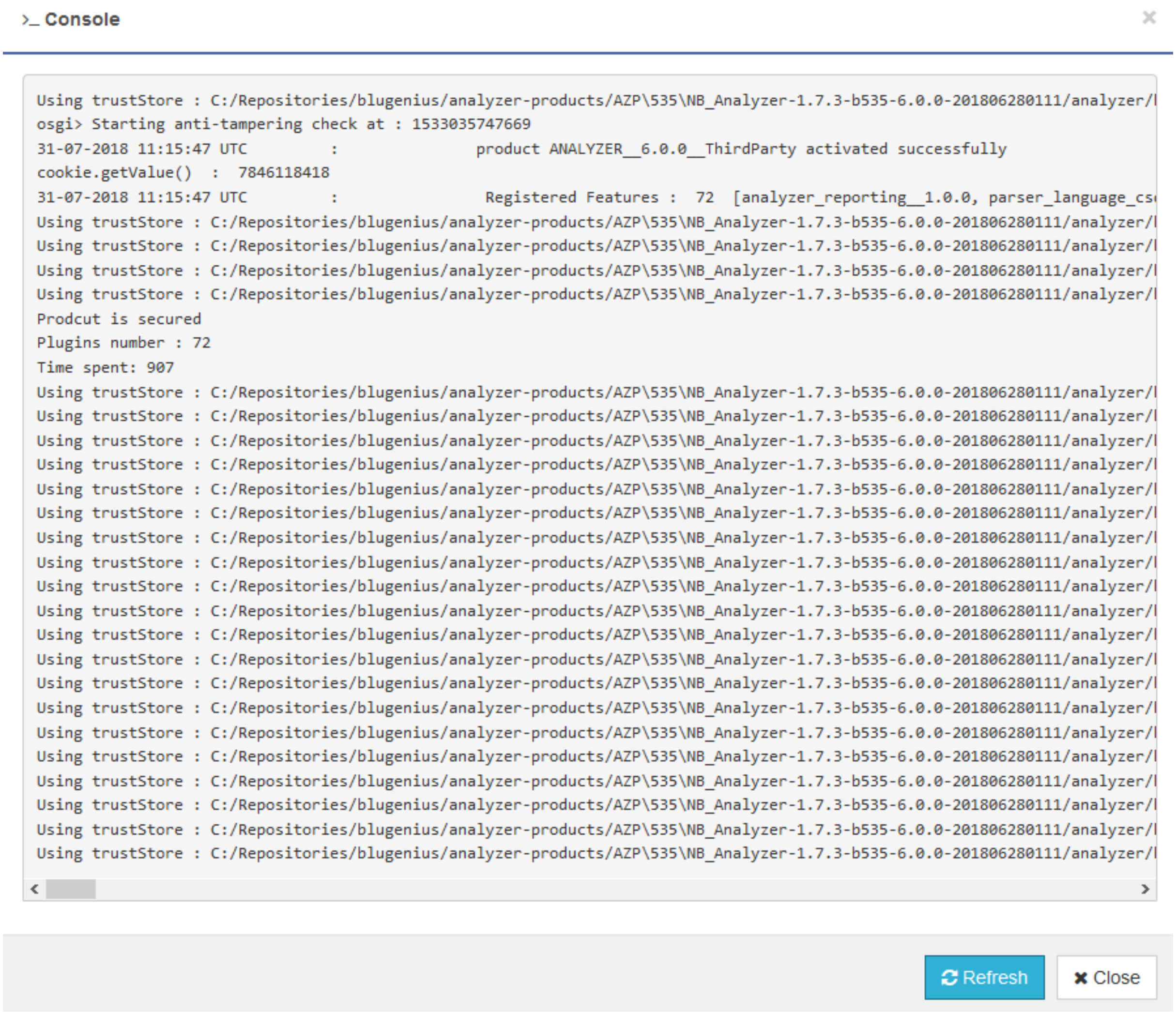
In sandbox mode, the inputs are already uploaded. In normal mode, you will need to upload you POC inputs that will be parsed during the analysis phase.

You need to click on “Start” button and then “Analysis” button. A popup will appear where you have to choose one of the available analyzer versions to proceed with.



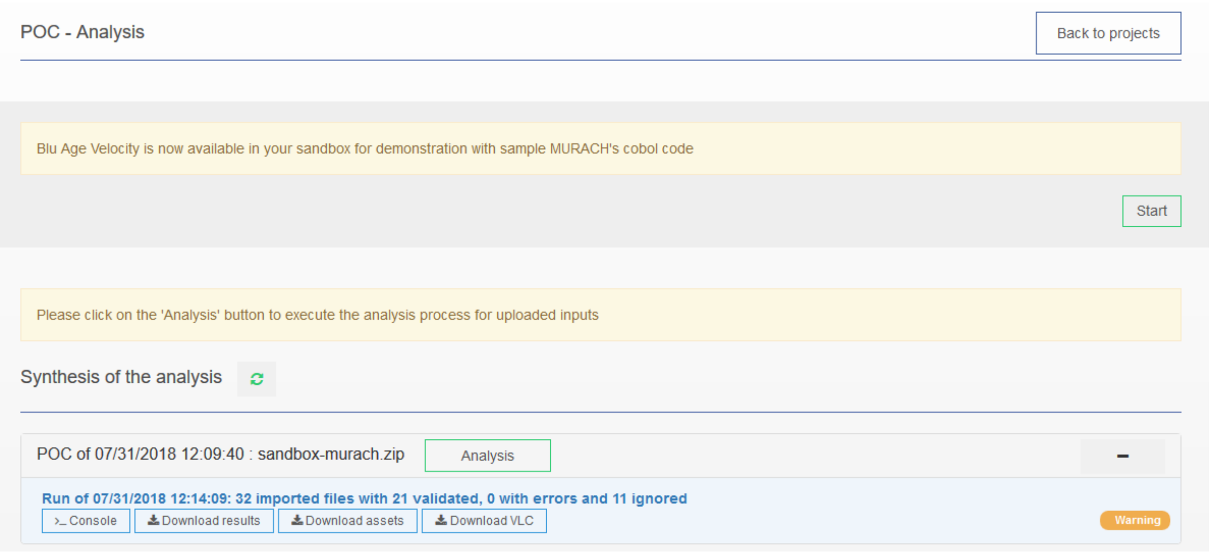
Version: 535

When you refresh the project, you will see that it is in progress. If you click on the “Console” button, you can see what the analyzer tool is doing.



```
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
osgi> Starting anti-tampering check at : 1533035747669
31-07-2018 11:15:47 UTC         :               product ANALYZER__6.0.0__ThirdParty activated successfully
cookie.getValue()  :  7846118418
31-07-2018 11:15:47 UTC         :                Registered Features :  72  [analyzer_reporting__1.0.0, parser_language_cs
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Prodcut is secured
Plugins number : 72
Time spent: 907
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
Using trustStore : C:/Repositories/blugenius/analyzer-products/AZP\535\NB_Analyzer-1.7.3-b535-6.0.0-201806280111/analyzer/l
```

Once the process is over, you will receive an email confirmation indicating that your analysis results are available on the Blugenius portal.



Blu Age Velocity is now available in your sandbox for demonstration with sample MURACH's cobol code

Please click on the 'Analysis' button to execute the analysis process for uploaded inputs

POC of 07/31/2018 12:09:40 : sandbox-murach.zip

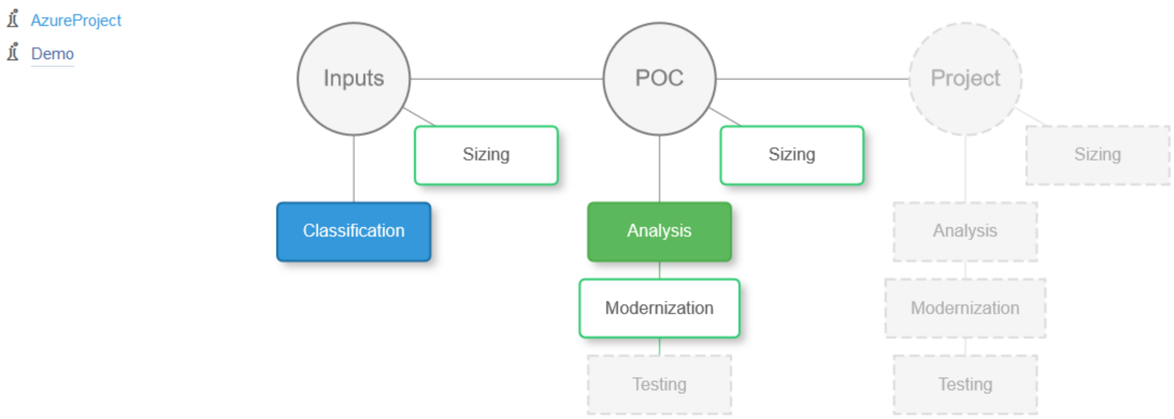
Run of 07/31/2018 12:14:09: 32 imported files with 21 validated, 0 with errors and 11 ignored

The new buttons available are for:

- Download results: enables you to download an excel file containing the issues if there are some, and also the ignored files. Under the ignored files section, you will find the copybooks because they are called upon when they are actually used in a program.
- Download assets: enables you to download an excel file containing the inputs classified by type. Available types are “Data”, “Module” and “Program Fragment”. It also contains different information on each file listed like the total line count, the file nature (Cobol Program, JCL Program…).
- Download VLC: enables you to download the VLC file that you will use to activate your velocity project under the license server so you can run the modernization.

3.6 POC modernization

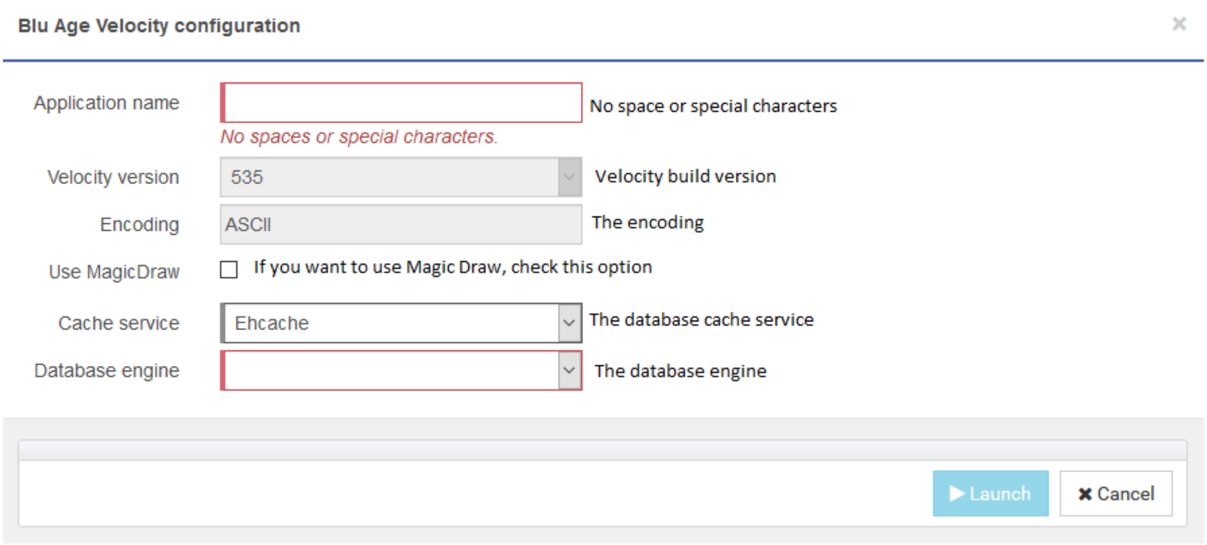
Next step is the modernization itself.



During this phase, you are going to launch the velocity modernization process.

In sandbox mode, inputs are already uploaded. In normal mode, you will need to upload your POC inputs.

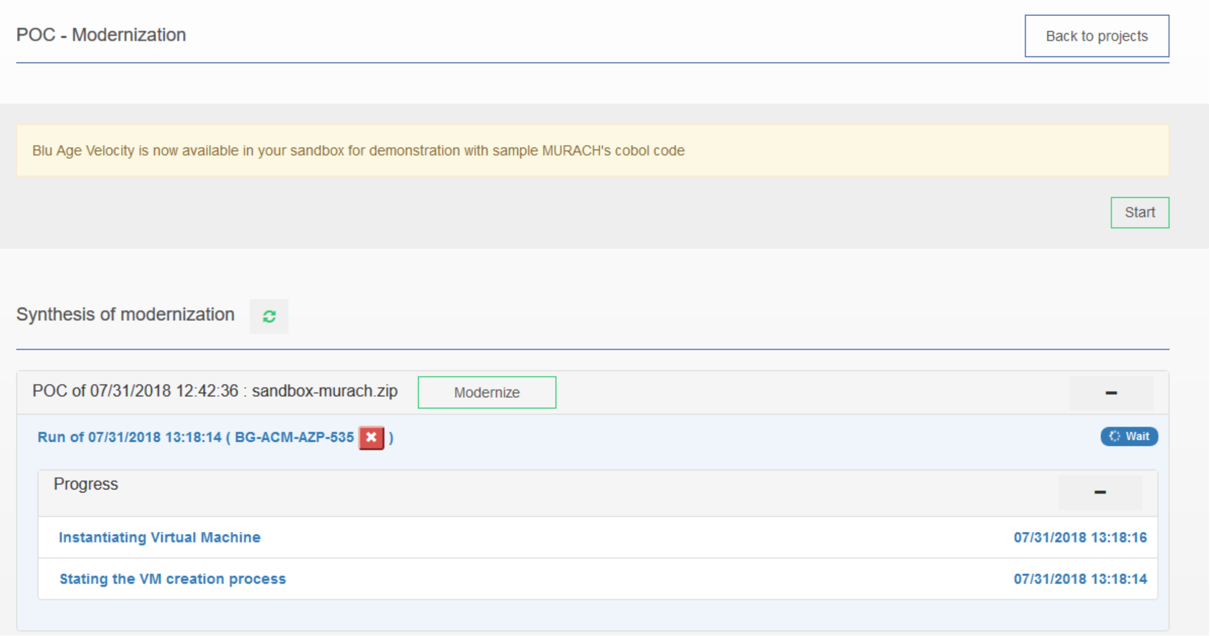
To launch the modernization, first click on the “Start” button, then “Modernize”. A popup will be displayed, where you can configure your velocity modernization.



Blu Age Velocity configuration

Application name: No space or special characters
No spaces or special characters.
Velocity version: 535 — Velocity build version
Encoding: ASCII — The encoding
Use MagicDraw: □ If you want to use Magic Draw, check this option
Cache service: Ehcache — The database cache service
Database engine: — The database engine

As it is running, you can keep track of the progress on the Blugenius portal.



POC - Modernization

Blu Age Velocity is now available in your sandbox for demonstration with sample MURACH's cobol code

Synthesis of modernization

POC of 07/31/2018 12:42:36 : sandbox-murach.zip

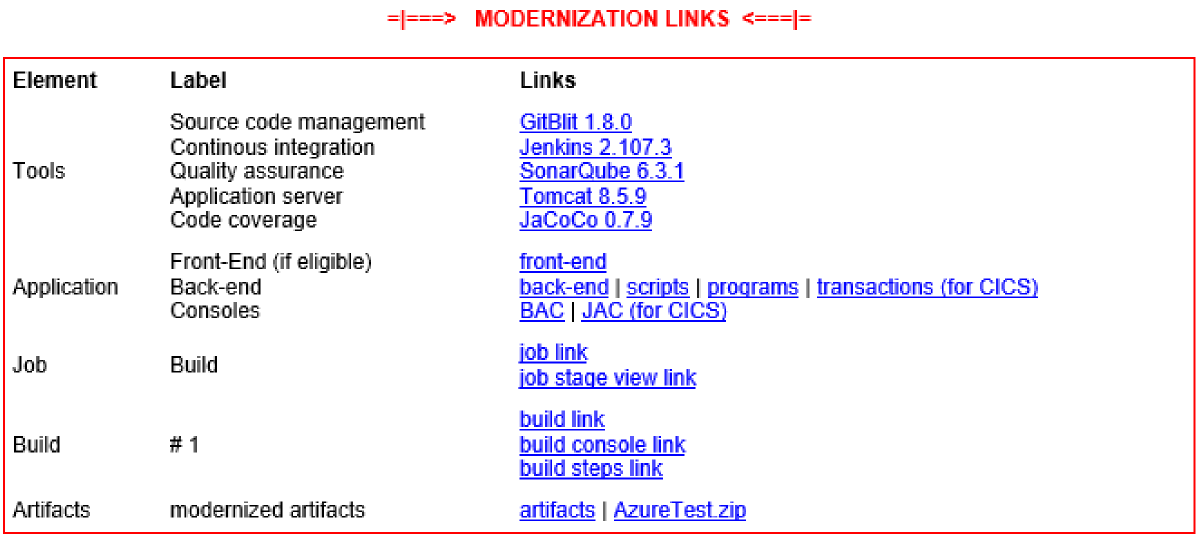
Run of 07/31/2018 13:18:14 (BG-ACM-AZP-535 ✖)

Progress

Instantiating Virtual Machine	07/31/2018 13:18:16
Stating the VM creation process	07/31/2018 13:18:14

You will also receive an email confirming that tour virtual machine is under construction.

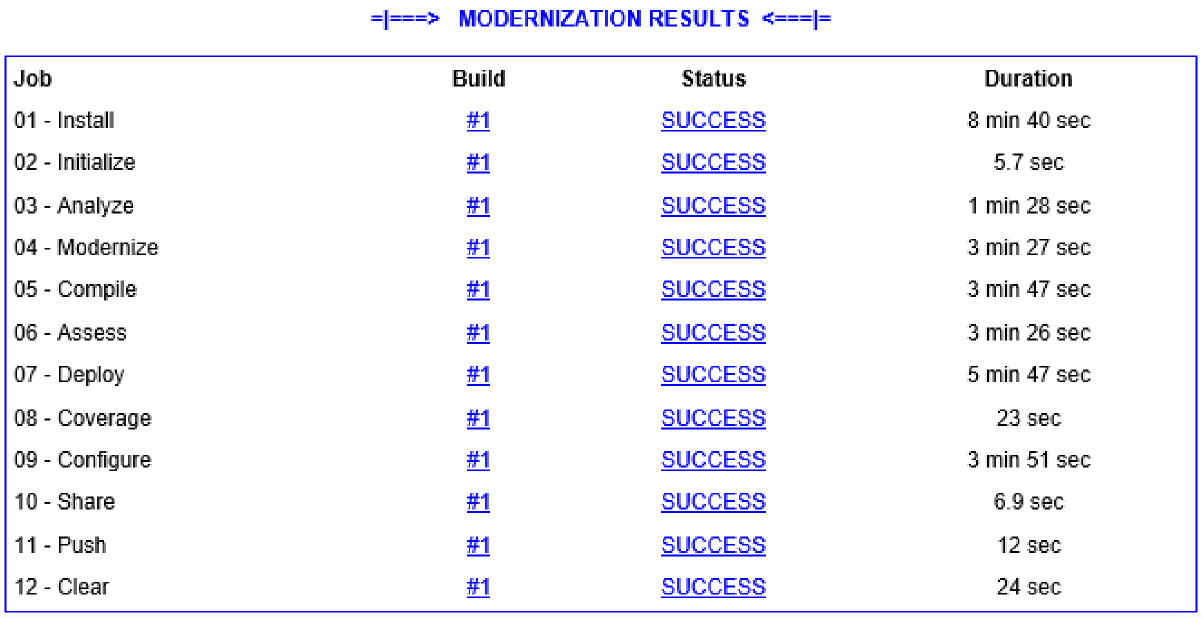
Once the process is finished, you will receive another email, pretty different from the ones you have received before. This one will contain different links to access your application, the Sonar results, the Jacoco results, the Jenkins…



=|===> MODERNIZATION LINKS <===|=

Element	Label	Links
Tools	Source code management Continous integration Quality assurance Application server Code coverage	GitBlit 1.8.0 Jenkins 2.107.3 SonarQube 6.3.1 Tomcat 8.5.9 JaCoCo 0.7.9
Application	Front-End (if eligible) Back-end Consoles	front-end back-end | scripts | programs | transactions (for CICS) BAC | JAC (for CICS)
Job	Build	job link job stage view link
Build	# 1	build link build console link build steps link
Artifacts	modernized artifacts	artifacts | AzureTest.zip

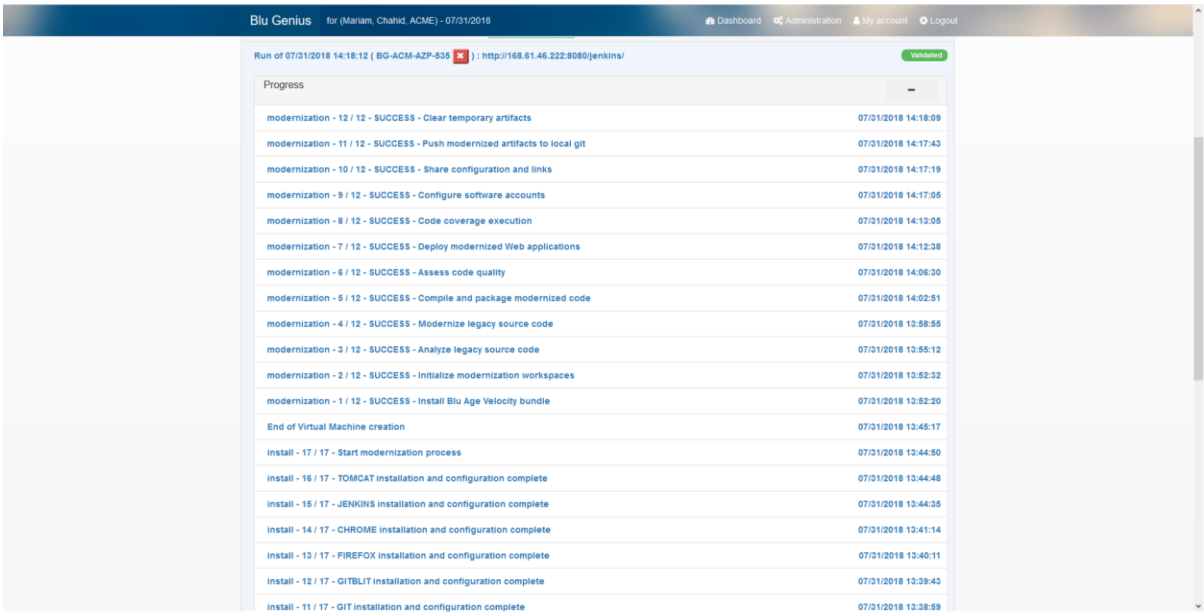
Under all those links in the email, you will find the Jenkins results for all the configured jobs from the installation of Blu Age velocity software, to the push of your code under GitBlit on your spawned machine.



=|===> MODERNIZATION RESULTS <===|=

Job	Build	Status	Duration
01 - Install	#1	SUCCESS	8 min 40 sec
02 - Initialize	#1	SUCCESS	5.7 sec
03 - Analyze	#1	SUCCESS	1 min 28 sec
04 - Modernize	#1	SUCCESS	3 min 27 sec
05 - Compile	#1	SUCCESS	3 min 47 sec
06 - Assess	#1	SUCCESS	3 min 26 sec
07 - Deploy	#1	SUCCESS	5 min 47 sec
08 - Coverage	#1	SUCCESS	23 sec
09 - Configure	#1	SUCCESS	3 min 51 sec
10 - Share	#1	SUCCESS	6.9 sec
11 - Push	#1	SUCCESS	12 sec
12 - Clear	#1	SUCCESS	24 sec

You can also see the same progress on Blugenius portal if click the refresh button.



Run of 07/31/2018 14:18:12 (BG-ACM-AZP-535 ✖) : http://168.61.46.222:8080/jenkins/

Progress

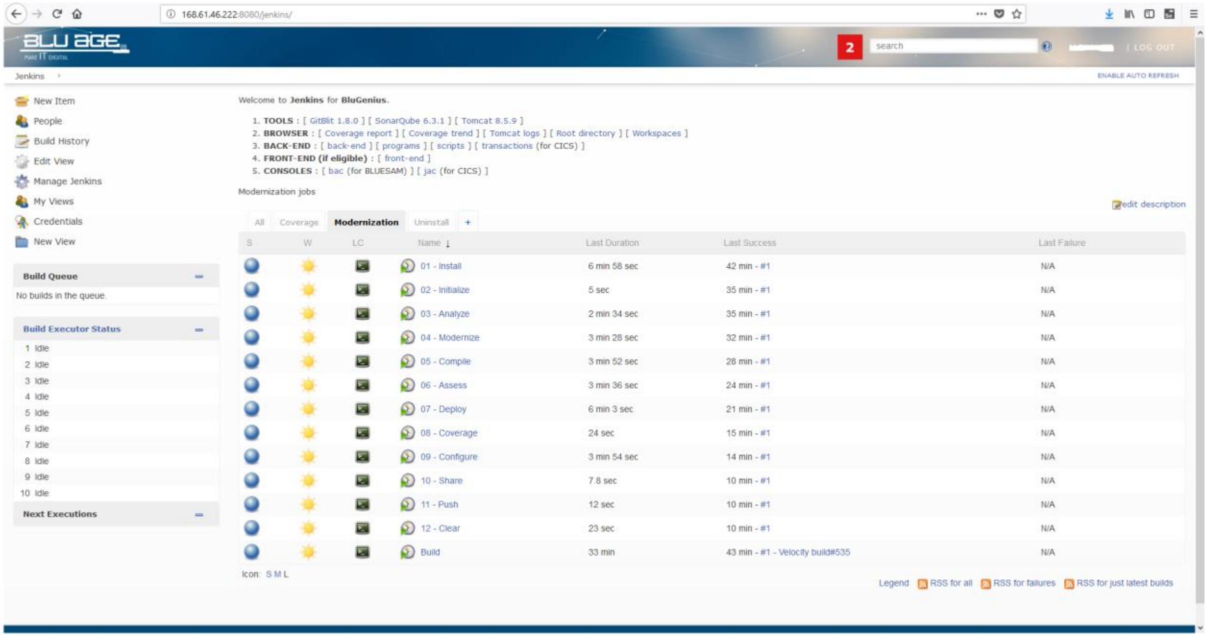
modernization - 12 / 12 - SUCCESS - Clear temporary artifacts	07/31/2018 14:18:09
modernization - 11 / 12 - SUCCESS - Push modernized artifacts to local git	07/31/2018 14:17:43
modernization - 10 / 12 - SUCCESS - Share configuration and links	07/31/2018 14:17:19
modernization - 9 / 12 - SUCCESS - Configure software accounts	07/31/2018 14:17:05
modernization - 8 / 12 - SUCCESS - Code coverage execution	07/31/2018 14:13:05
modernization - 7 / 12 - SUCCESS - Deploy modernized Web applications	07/31/2018 14:12:38
modernization - 6 / 12 - SUCCESS - Assess code quality	07/31/2018 14:06:30
modernization - 5 / 12 - SUCCESS - Compile and package modernized code	07/31/2018 14:02:51
modernization - 4 / 12 - SUCCESS - Modernize legacy source code	07/31/2018 13:58:55
modernization - 3 / 12 - SUCCESS - Analyze legacy source code	07/31/2018 13:55:12
modernization - 2 / 12 - SUCCESS - Initialize modernization workspaces	07/31/2018 13:52:32
modernization - 1 / 12 - SUCCESS - Install Blu Age Velocity bundle	07/31/2018 13:52:20
End of Virtual Machine creation	07/31/2018 13:45:17
install - 17 / 17 - Start modernization process	07/31/2018 13:44:50
install - 16 / 17 - TOMCAT installation and configuration complete	07/31/2018 13:44:48
install - 15 / 17 - JENKINS installation and configuration complete	07/31/2018 13:44:35
install - 14 / 17 - CHROME installation and configuration complete	07/31/2018 13:41:14
install - 13 / 17 - FIREFOX installation and configuration complete	07/31/2018 13:40:11
install - 12 / 17 - GITBLIT installation and configuration complete	07/31/2018 13:39:43
install - 11 / 17 - GIT installation and configuration complete	07/31/2018 13:38:59

The different Jenkins jobs run are:

- Install: installs velocity software on the spawned virtual machine.
- Initialize: initializes the workspace.
- Analyze: analyzes the code to prepare it for modernization job.
- Modernize: reverse engineer the code into an UML model and uses it to modernize into a Java code.
- Compile: compiles the generated code.
- Assess: assesses the quality of the generated code using SonarQube.
- Deploy: deploys the generated code under Tomcat server.
- Coverage: checks the code coverage.
- Configure: configures software accounts.
- Share: shares the code into the root directory.
- Push: pushes the code under Gitblit.
- Clear: cleans all temporary information.

If you check the top of your email, you will see a password associated to your Blugenius user name. This password has been generated and will allow you to connect to the different links.

You can now go Jenkins via the link provided in the email. You can log in using the given password.



Build Queue

No builds in the queue.

Build Executor Status

1	Idle
2	Idle
3	Idle
4	Idle
5	Idle
6	Idle
7	Idle
8	Idle
9	Idle
10	Idle

Next Executions

Welcome to **Jenkins** for **BluGenius**.

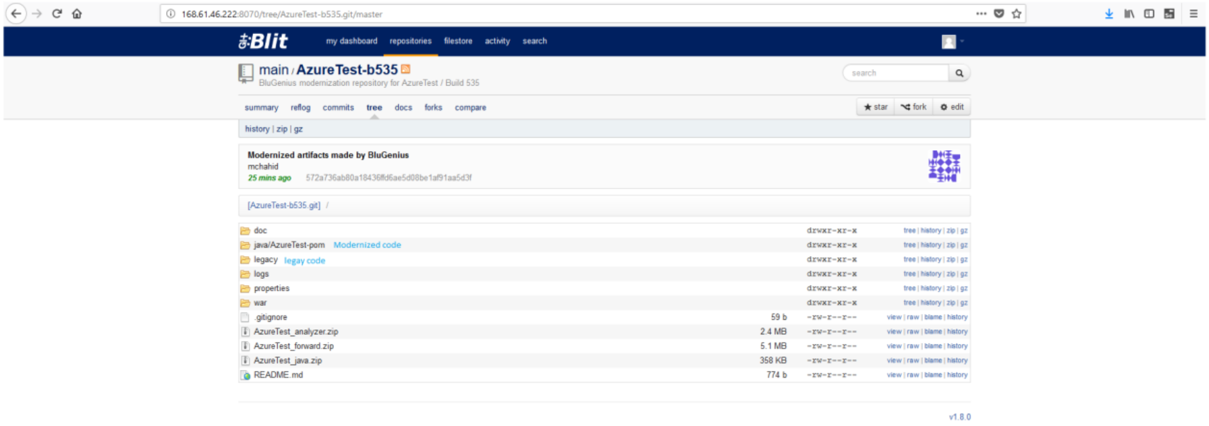
1. **TOOLS** : [GitBlit 1.8.0] [SonarQube 6.3.1] [Tomcat 8.5.9]
2. **BROWSER** : [Coverage report] [Coverage trend] [Tomcat logs] [Root directory] [Workspaces]
3. **BACK-END** : [back-end] [programs] [scripts] [transactions (for CICS)]
4. **FRONT-END (if eligible)** : [front-end]
5. **CONSOLES** : [bac (for BLUESAM)] [jac (for CICS)]

Modernization jobs

S	W	LC	Name ↓	Last Duration	Last Success	Last Failure
●	☀		01 - Install	6 min 58 sec	42 min - #1	N/A
●	☀		02 - Initialize	5 sec	35 min - #1	N/A
●	☀		03 - Analyze	2 min 34 sec	35 min - #1	N/A
●	☀		04 - Modernize	3 min 28 sec	32 min - #1	N/A
●	☀		05 - Compile	3 min 52 sec	28 min - #1	N/A
●	☀		06 - Assess	3 min 36 sec	24 min - #1	N/A
●	☀		07 - Deploy	6 min 3 sec	21 min - #1	N/A
●	☀		08 - Coverage	24 sec	15 min - #1	N/A
●	☀		09 - Configure	3 min 54 sec	14 min - #1	N/A
●	☀		10 - Share	7.8 sec	10 min - #1	N/A
●	☀		11 - Push	12 sec	10 min - #1	N/A
●	☀		12 - Clear	23 sec	10 min - #1	N/A
●	☀		Build	33 min	43 min - #1 - Velocity build#535	N/A

From Jenkins you have access to different tools and links like:

- GitBlit: your Git repository containing the legacy code and the modernized code.



main / **AzureTest-b535**

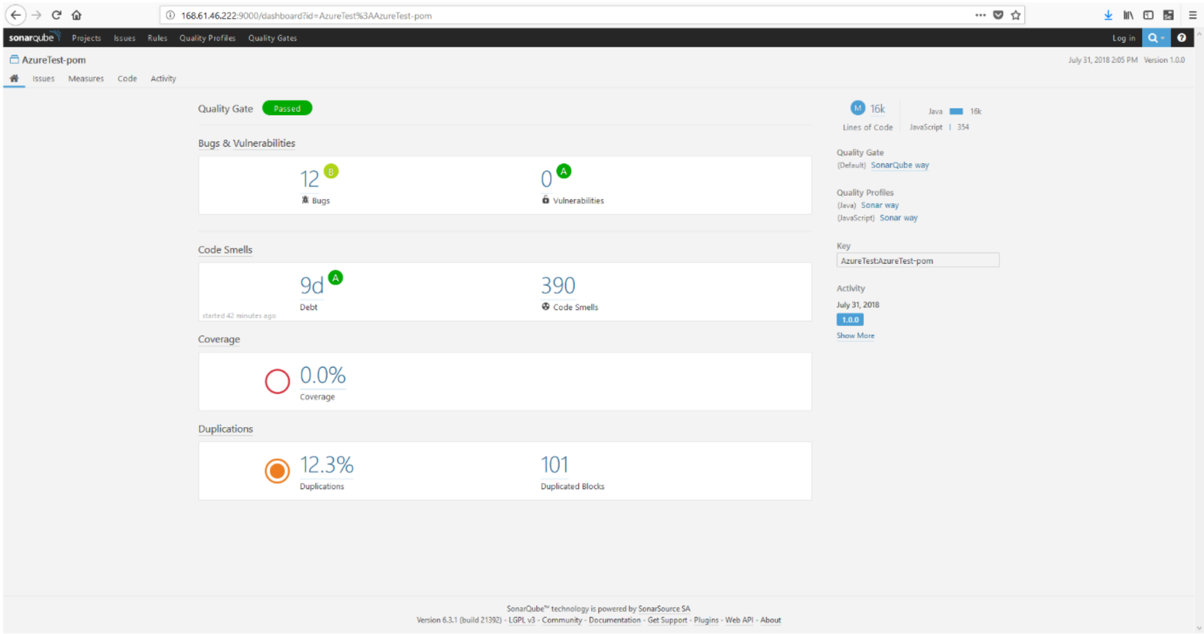
BluGenius modernization repository for AzureTest / Build 535

Modernized artifacts made by BluGenius
mchahid
25 mins ago 572a736ab80a18436ffd6ae5d08be1af91aa5d3f

[AzureTest-b535.git] /

doc		drwxr-xr-x	tree | history | zip | gz
java/AzureTest-pom Modernized code		drwxr-xr-x	tree | history | zip | gz
legacy legay code		drwxr-xr-x	tree | history | zip | gz
logs		drwxr-xr-x	tree | history | zip | gz
properties		drwxr-xr-x	tree | history | zip | gz
war		drwxr-xr-x	tree | history | zip | gz
.gitignore	59 b	-rw-r--r--	view | raw | blame | history
AzureTest_analyzer.zip	2.4 MB	-rw-r--r--	view | raw | blame | history
AzureTest_forward.zip	5.1 MB	-rw-r--r--	view | raw | blame | history
AzureTest_java.zip	358 KB	-rw-r--r--	view | raw | blame | history
README.md	774 b	-rw-r--r--	view | raw | blame | history

- SonarQube: you can visit SonarQube to check your code quality.



AzureTest-pom

July 31, 2018 2:05 PM Version 1.0.0

Quality Gate Passed

Bugs & Vulnerabilities

12 B Bugs

0 A Vulnerabilities

Code Smells

9d A Debt

started 42 minutes ago

390 Code Smells

Coverage

0.0% Coverage

Duplications

12.3% Duplications

101 Duplicated Blocks

M 16k Lines of Code

Java 16k

JavaScript 354

Quality Gate

(Default) SonarQube way

Quality Profiles

(Java) Sonar way

(JavaScript) Sonar way

Key

AzureTest:AzureTest-pom

Activity

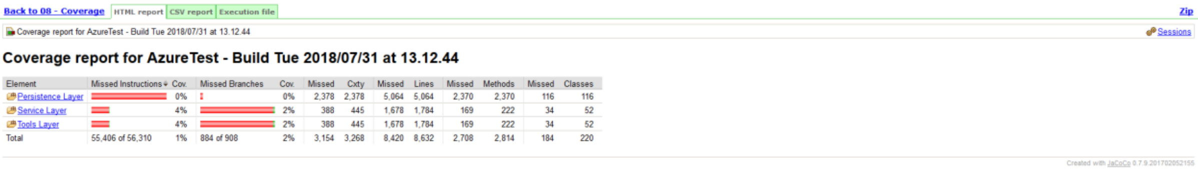
July 31, 2018

1.0.0

SonarQube™ technology is powered by SonarSource SA

Version 6.3.1 (build 21392) - LGPL v3 - Community - Documentation - Get Support - Plugins - Web API - About

- Coverage report: you can use this link to check your code coverage report. To have the results, you need to run your code first.



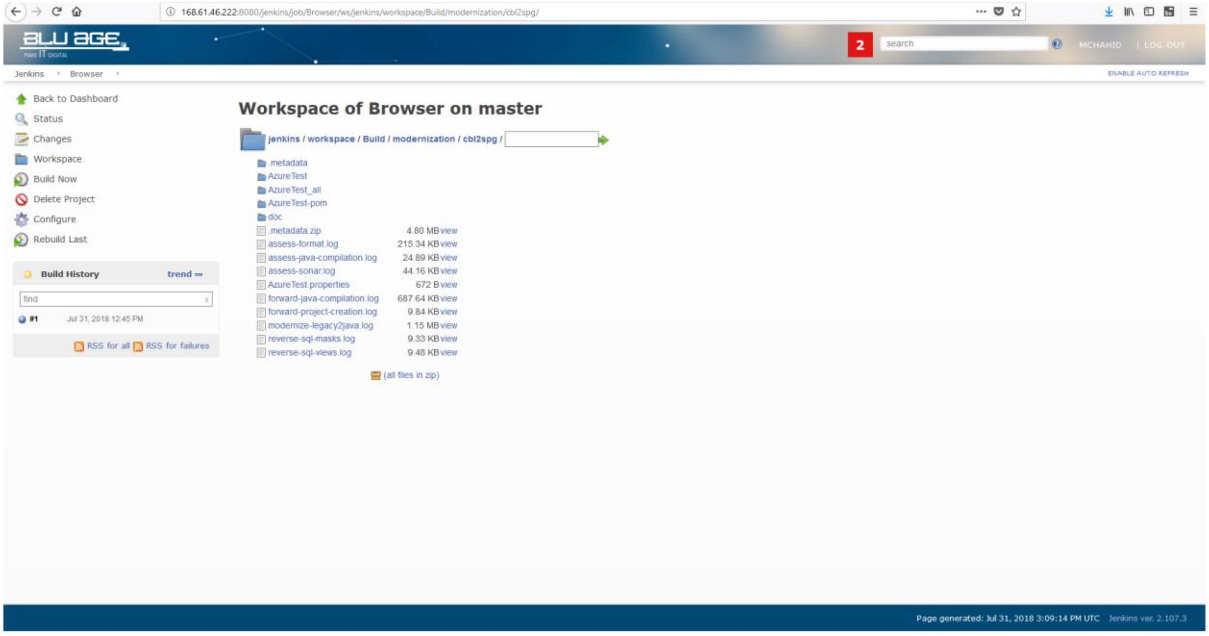
Coverage report for AzureTest - Build Tue 2018/07/31 at 13.12.44

Coverage report for AzureTest - Build Tue 2018/07/31 at 13.12.44

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
Persistence Layer		0%		0%	2,378	2,378	5,064	5,064	2,370	2,370	116	116
Service Layer		4%		2%	388	445	1,678	1,784	169	222	34	52
Tools Layer		4%		2%	388	445	1,678	1,784	169	222	34	52
Total	55,406 of 56,310	1%	884 of 908	2%	3,154	3,268	8,420	8,632	2,708	2,814	184	220

Created with JaCoCo 0.7.9.201702052155

- Root directory: you can access your different elements like UML model, logs files, installed software files, workspaces…



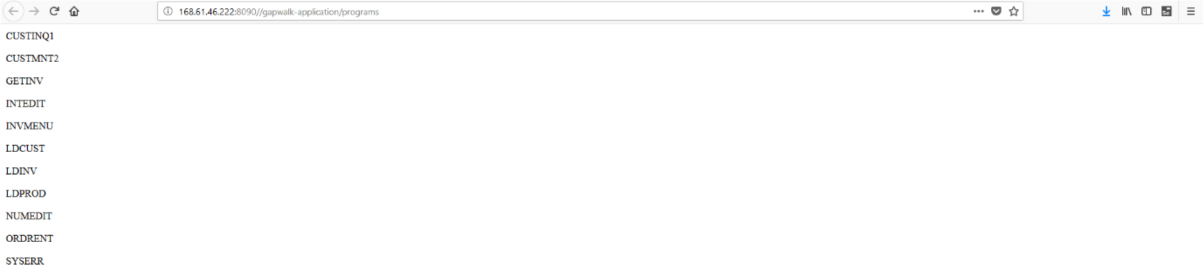
Workspace of Browser on master

jenkins / workspace / Build / modernization / cbl2spg /

```
.metadata
AzureTest
AzureTest_all
AzureTest-pom
doc
.metadata.zip                     4.80 MB view
assess-format.log               215.34 KB view
assess-java-compilation.log      24.89 KB view
assess-sonar.log                 44.16 KB view
AzureTest.properties               672 B view
forward-java-compilation.log    687.64 KB view
forward-project-creation.log      9.84 KB view
modernize-legacy2java.log         1.15 MB view
reverse-sql-masks.log             9.33 KB view
reverse-sql-views.log             9.48 KB view
(all files in zip)
```

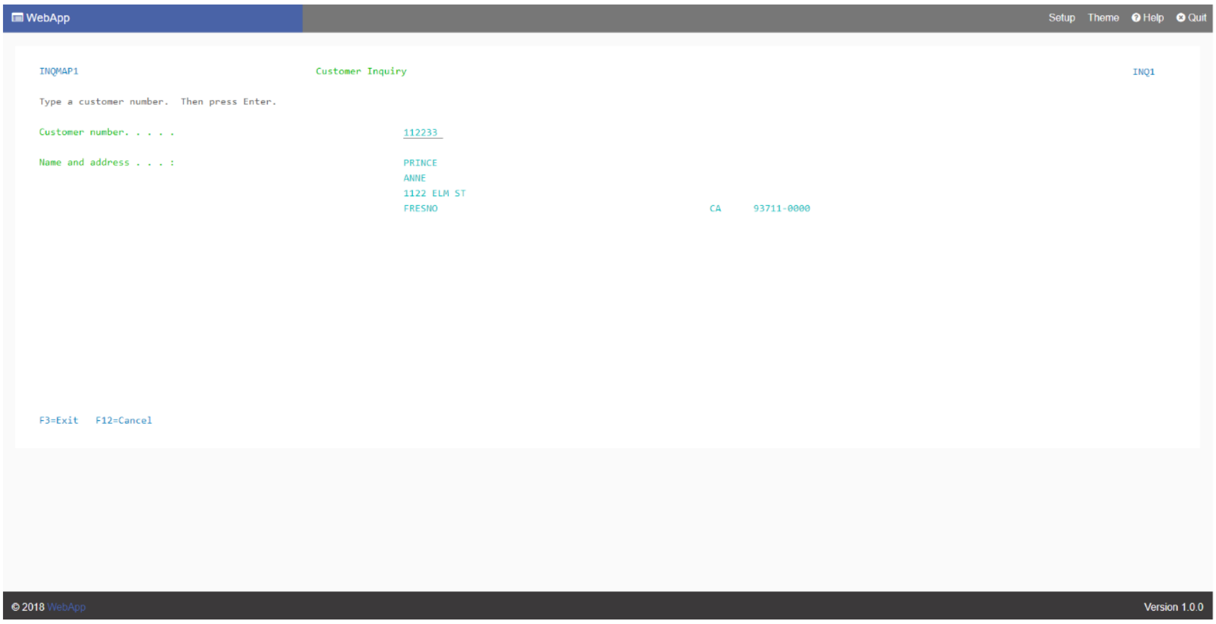
Page generated: Jul 31, 2018 3:09:14 PM UTC Jenkins ver. 2.107.3

- Programs, scripts, transactions: list of the programs, JCL scripts and CICS transactions.



```
CUSTINQ1
CUSTMNT2
GETINV
INTEDIT
INVMENU
LDCUST
LDINV
LDPROD
NUMEDIT
ORDRENT
SYSERR
```

- Front-end: this is the actual modernized application.



```
INQMAP1                        Customer Inquiry                                                    INQ1

Type a customer number.  Then press Enter.

Customer number. . . . .                 112233

Name and address . . . :                 PRINCE
                                         ANNE
                                         1122 ELM ST
                                         FRESNO                           CA     93711-0000




F3=Exit   F12=Cancel
```

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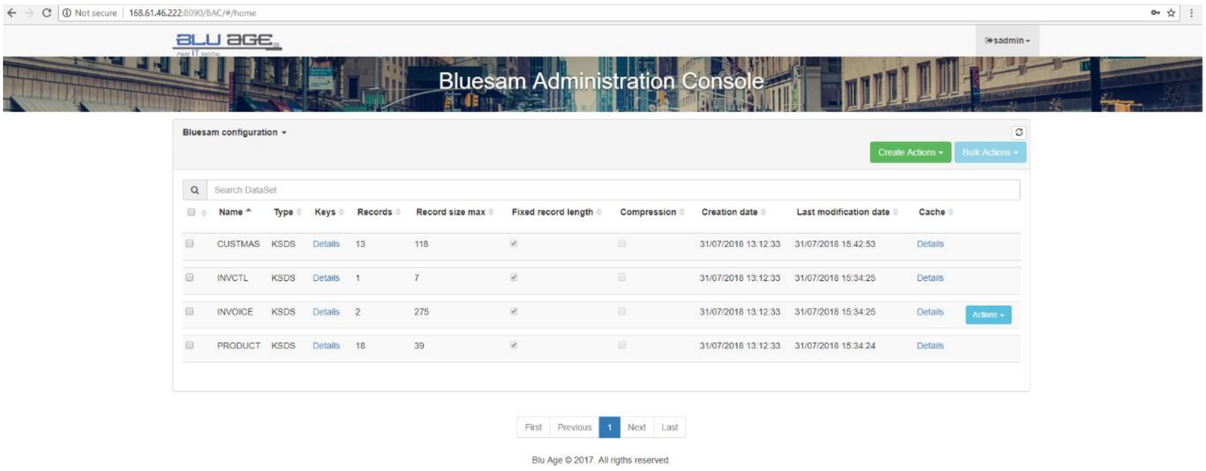
Version 1.0.0

- BAC: this is the Bluesam administration console, which is the Blu Age VSAM console. This console can be used to check data and modify the database. You can also go into any dataset and read what is in it. You can filter data using different masks.



□	Name	Type	Keys	Records	Record size max	Fixed record length	Compression	Creation date	Last modification date	Cache
□	CUSTMAS	KSDS	Details	13	118	☑	□	31/07/2018 13:12:33	31/07/2018 15:42:53	Details
□	INVCTL	KSDS	Details	1	7	☑	□	31/07/2018 13:12:33	31/07/2018 15:34:25	Details
□	INVOICE	KSDS	Details	2	275	☑	□	31/07/2018 13:12:33	31/07/2018 15:34:25	Details
□	PRODUCT	KSDS	Details	18	39	☑	□	31/07/2018 13:12:33	31/07/2018 15:34:24	Details

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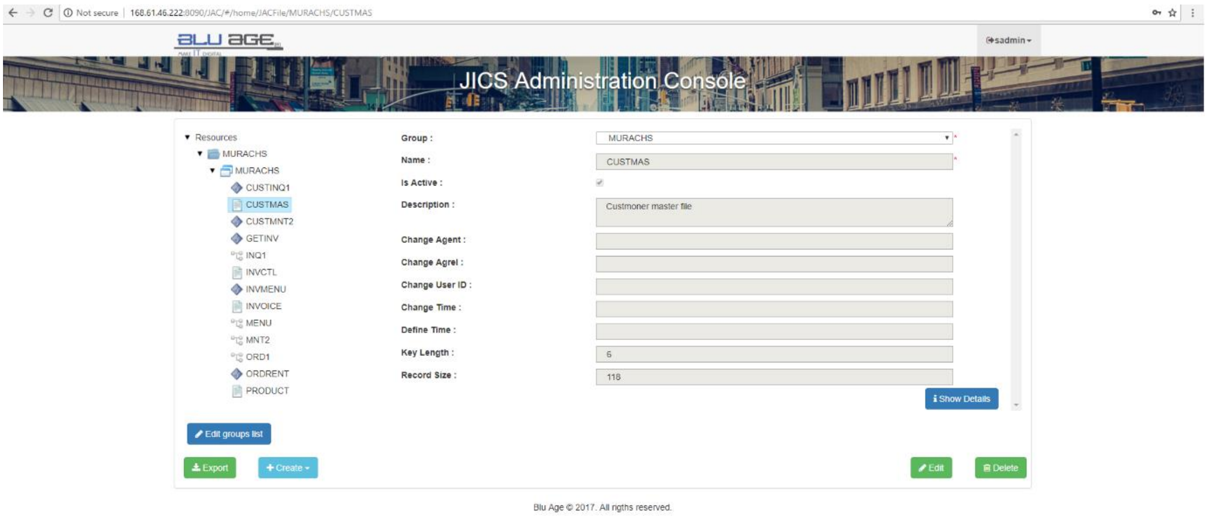
- JAC: it is the Java CICS administration console. It lists all the CICS transactions. You can also perform many operations on the transactions via this console.



Group :	MURACHS
Name :	CUSTMAS
Is Active :	☑
Description :	Custmoner master file
Change Agent :	
Change Agrel :	
Change User ID :	
Change Time :	
Define Time :	
Key Length :	6
Record Size :	118

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