

PRISM

Performance RIsK Scoring Module

User Guide version 3.0
V.M. Guruprasath, January 2019





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PRISM Version 3.0


Introduction


Performance Risk Scoring Module, is a Python based standalone application. The purpose of this tool is to calculate the Performance Risk Score based on the answers to a set of pre-defined standard questionnaire.

Steps to Open the Tool

1. Download  PRISM_v3.zip from the Capgemini Knowledge Management Portal:
<https://km3.capgemini.com/asset/1094475> to a local folder on your computer
2. Unzip the file
3. Identify PRISM_v3.exe from the extract and double click on the executable.

Name

 PRISM_v3.exe

 PRISM_v3.zip



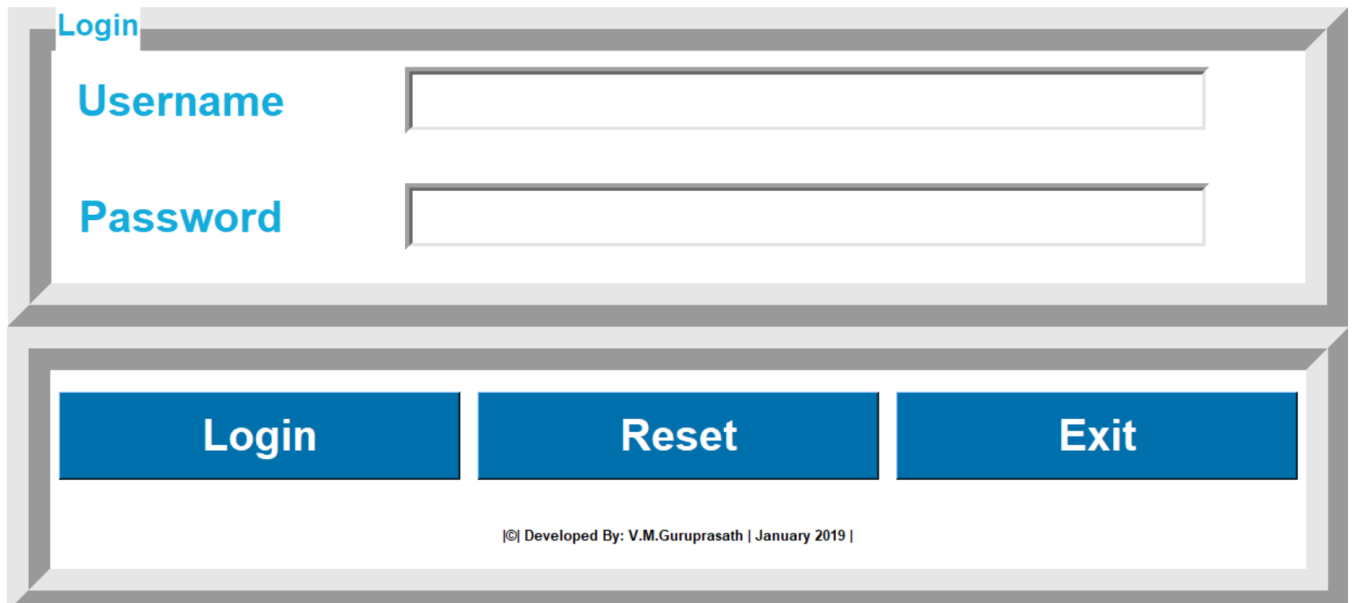
People and Systems that drive the change

Login Screen

PRISM Version 3.0

— □ >

PRISM - Performance Risk Scoring Module



The login screen is a rectangular window with a light gray border. At the top left, the word "Login" is written in blue. Below it, the labels "Username" and "Password" are written in blue. To the right of each label is a white text input field with a thin gray border. Below the input fields, there are three blue buttons with white text: "Login", "Reset", and "Exit". At the bottom center, there is a small line of text: "© Developed By: V.M.Guruprasath | January 2019 |".

The login screen helps users to access the module.

Enter **Username** as "Capgemini" and **Password** as "123456" and click on Login Button to enter the module.

If for some reason the user wishes to change the value entered, the Reset button would help to reset the data entered.

For exiting the module, kindly click on the Exit button.

Scoring Screen

PRISM - Performance Risk Scoring Module Application Name: **Sample Application 1.**

Service Criticality

1(a). Are the users of this Service internal staff, External Customers or Both? **INTERNAL**

1(b). Is this Service Business Critical? **NO**

Production Capacity

2(a). What is the current capacity utilisation of the Service? **60-80%**

2(b). What is the current annual growth rate? **25-49%**

2(c). What is the change in volumetrics? **2.** **10-24%**

2(d). Is the breakpoint of this Service known? **YES**

Production-Stability & Availability

3(a). Any performance, stability or HA issues in the last 6 months in production? **UNKNOWN**

3(b). Has any P&V been performed in the last 18 months? **UNKNOWN**

3(c). Does this Service involve/impact critical Services, Products or Components? **UNKNOWN**

Solution Complexity

4(a). Number of Interfacing systems **7-9**

4(b). Number of 3rd Party (externally hosted) Products or Components **0**

4(c). Is the Service custom coded? **IN HOUSE**

Resource Utilization

5(a). Is there evidence the Service can meet NFRs? **YES**

5(b). Are there any anticipated high I/O or Processing periods, or other types of background load, which may impact batch and/or real-time performance? **NO**

5(c). Is the Service driving a physical change to Infrastructure as a result of changing Load Patterns? **UNKNOWN**

5(d). Does this solution share infrastructure with other (existing) Services, Products or Components? **NO**

System Changes

6(a). Does this change introduce new functions or additional capability to existing functions? **UNKNOWN**

6(b). Are there changes to code/query/configuration? **UNKNOWN**

6(c). Are there changes to OS,Infra,DB, Network,Storage, Middleware? **NO**

6(d). Is this a new (or migrating) platform? **NO**

Impact Factors

7(a). Volume - number of concurrent users **10,000+**

7(b). Volume - anticipated transaction rate (TPS) **< 5**

7(c). Are there customer,time or financially sensitive functions? **NO**

7(d). Does the Service have Branch/ Hub/ remote users? **UNKNOWN**

Performance Risk Score

3. 51.0

1. If score > 65, then Full P&V

2. If score > 30 & < 65, then Risk Based P&V

3. If score < 30, then Paper Based Assessment or no P&V

Score **Reset** **Logout**

The scoring screen has 4 sections, they are as follows:

1. Application Name section:

This section is to enter the Name of the application for which the Performance Risk Score is calculated

2. Questionnaire section:

This section consists of 24 pre-defined questions across 7 key application performance impacting areas namely :

- Service Criticality
- Production Capacity
- Production Stability and Availability
- Solution Complexity
- Resource Utilization
- System Changes and
- Impact Factors

Like the prism in real world which disperses light into 7 different colors, our PRSIM tool disperses our performance test risk identifying questions into 7 impacting areas to help us identify the Performance Risk Score.

Here the user can choose appropriate answer from the drop down based on the Application Under Test for all 24 questions and click on the « Score » button

Production-Stability & Availability	
3(a). Any performance, stability or HA issues in the last 6 months in production?	NO ▾
3(b). Has any P&V been performed in the last 18 months?	▾
3(c). Does this Service involve/impact critical Services, Products or Components	<div>NO</div> <div>YES</div> <div>UNKNOWN</div> <div>N/A</div>
Solution Complexity	

3. Score Section:

Performance Risk Score

3.

56.9

1. If score > 65,
then Full P&V
2. If score > 30 & < 65,
then Risk Based P&V
3. If score < 30,
then Paper Based
Assessment or no P&V

This is the important part of the tool.

On clicking on the « Score » button after answering all questions, the tool reads the answers to the questions and assigns a risk score to the answers accordingly. Based on the individual score that is assigned to the answers, the tool then computes the final consolidated overall score for the Application Under Test.

The Performance Risk Score indicates the following :

- If the score is 65 and above:** A High-Performance Risk that warrants a Full Performance and Volume (P&V) testing. Full P&V includes but not limited to, 2 rounds of Load Test, 2 rounds of Stress test and 2 rounds of Endurance test with post tuning test execution runs, Smoke tests and Baseline tests (Can be defined as per the individual Project/Program standards)
- If the score is 30 and less than 65:** A Medium Performance Risk that qualifies for Risk Based Performance and Volume (P&V) testing. A Risk Based P&V may include 1 round

of Load, Stress and Endurance test or 2 Rounds of Load Test alone or Load and Endurance test, or different permutation and combinations as per the Project needs

- c. **If the score is less than 30** : A Low Performance Risk that qualifies for Paper Based Assessment (PBA) or No Performance & Volume (P&V) testing.

The scores have been categorized based on the different permutation and combinations executed with the tool, however the final call on the application performance risk and category will always be decided by the respective Performance Test Manager/Lead of the project.

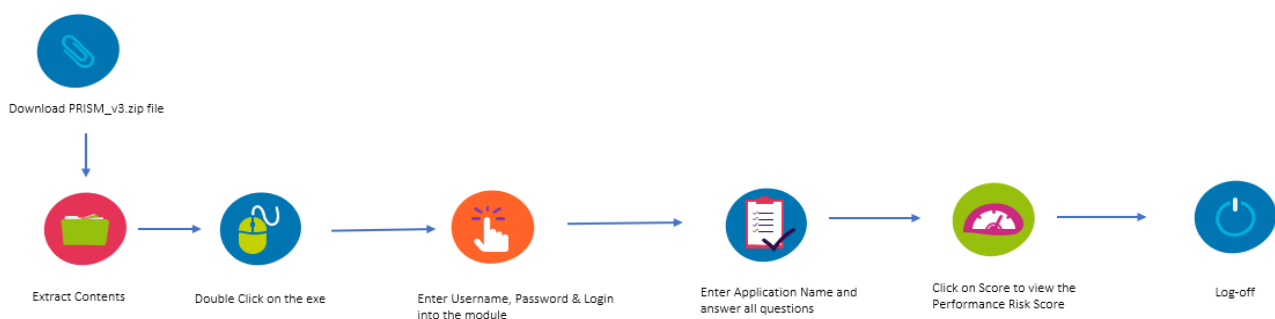
4. Buttons section:



The buttons section consists of 3 buttons namely

- a. **Score**: Clicking on this button triggers the Calculation Engine and displays the Performance Risk Score in the « Score Section »
- b. **Reset**: Clicking on this button help to reset the final score in the « Score Section », enabling users to change any answer/s in the questionnaire and re-**Score**
- c. **Logout**: Clicking on this button help us to log out from the application.

PRISM Workflow



The aim of the tool is to help and guide us. As we all know, no tool can replace the experience of a seasoned Performance Engineer/ Lead/ Manager.

Hope this tool is helpful.

About Capgemini

A global leader in consulting, technology services and digital transformation, Capgemini is at the forefront of innovation to address the entire breadth of clients' opportunities in the evolving world of cloud, digital and platforms. Building on its strong 50-year heritage and deep industry-specific expertise, Capgemini enables organizations to realize their business ambitions through an array of services from strategy to operations. Capgemini is driven by the conviction that the business value of technology comes from and through people. It is a multicultural company of 200,000 team members in over 40 countries. The Group reported 2016 global revenues of EUR 12.5 billion.

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