

Configuration Manual

MSc Research Project
Cloud Computing

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Configuration Manual

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1 Introduction

This document encompasses the details regarding the configuration set-up of Blue Prism Multi-Robot architecture. It includes the prerequisites that are needed for the successful deployment of the solution along with the tools and technologies required for the development of the same. It gives a detailed set-up instructions on how this architecture could be simulated on any other system.

2 Tools/Technologies & Prerequisites

Here's a quick glance on the tools/technologies used:

RPA Tool: Blue Prism v6.8
Framework: .Net framework 4.7
Languages: XML, C#, Java
Database: Microsoft SQL Server
Hypervisor: Oracle VM Virtualbox

Some of the prerequisites needed for the solution are as follows:

- Microsoft .Net Framework 4.7 has to be installed in the system(Limited; 2020)
- Microsoft SQL Server 2017 for database support
- Instances of Virtual Machines should be created using Oracle Virtualbox/ VMware Workstation
- Blue Prism Installation file and license(refer the zip file)

3 Solution Deployment Configuration

As the RPA tool Blue Prism is a Windows-based application and the whole architecture revolves around it, its installation and configuration is vital for the deployment of the solution.

3.1 Blue Prism Client Configuration

1. Install the Blue prism application named BluePrismEvaluation6.8.exe(from the zip folder)
2. Once installation is complete, open the application and sign-in as shown in g. 1. While trying to login for the first time, both the username and password should be entered as \admin".

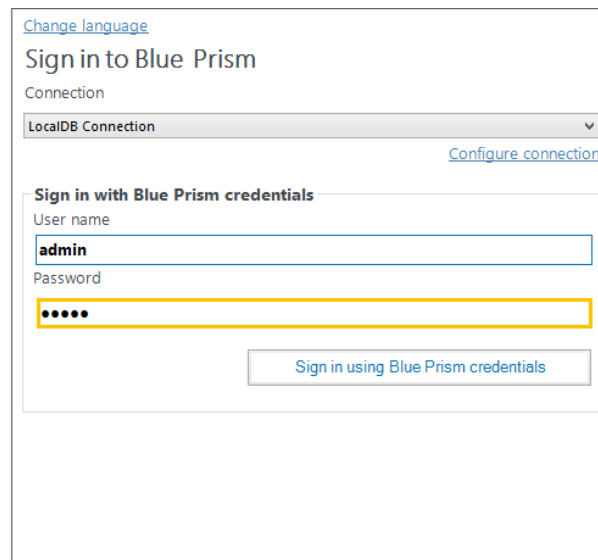


Figure 1: Blue Prism login details

3. For the Blue Prism v6.8, the local database is already configured as shown in g. 2

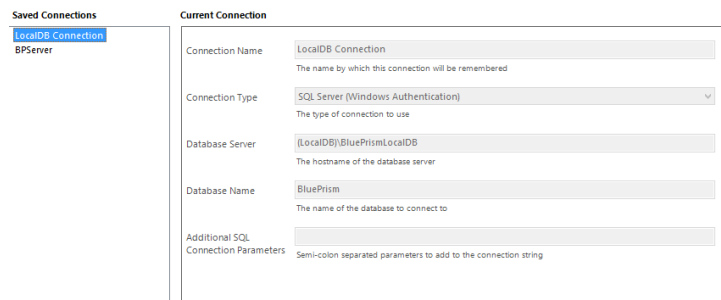


Figure 2: Local DB Configuration

4. After login, the system would prompt to enter the new password and confirm it
5. Then install the license(zip file) under Setting tab as displayed in g.3
6. Once the product is activated, select System admin from User roles under Security tab(g. 6). Check all the roles in the permissions column.(Limited; 2018)

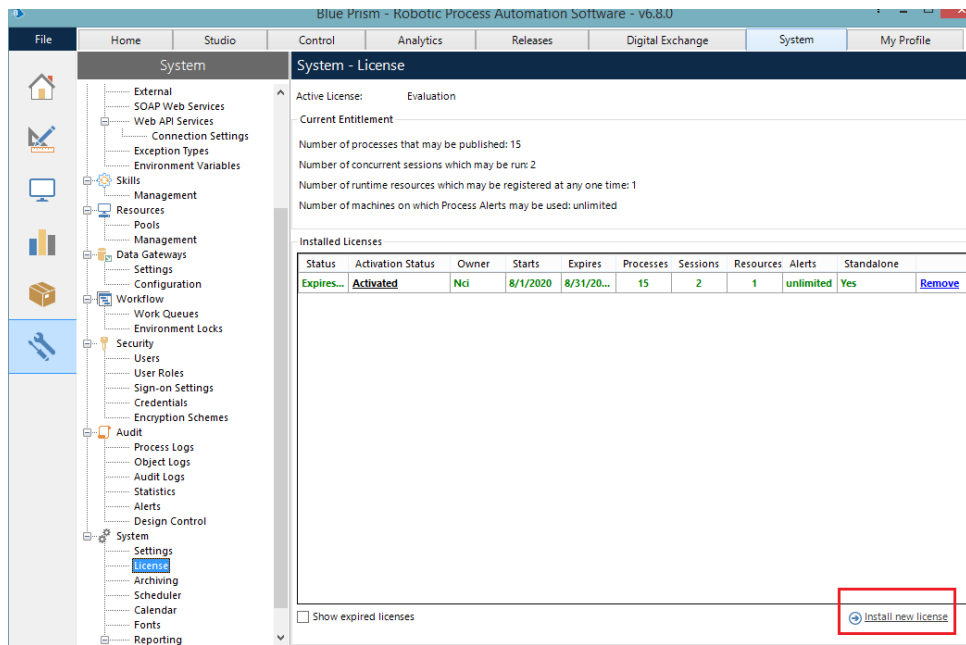


Figure 3: License Installation

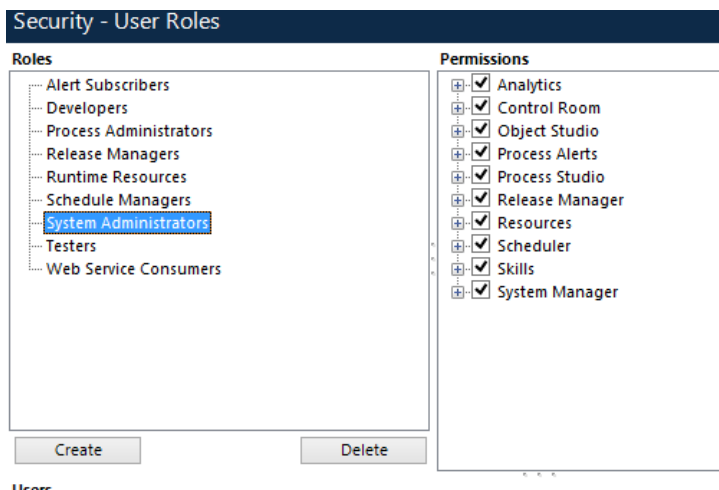


Figure 4: Admin role Configuration

3.2 Blue Prism Server Configuration

1. For setting up the Blue Prism Server, go to services in the task manager. Check whether the Blue prism server service is running and switch it to automatic if it is not(g. 7).

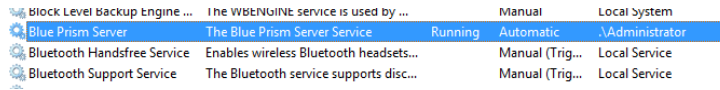


Figure 5: BP Server service

2. Log on as the user from this account instead of local system account

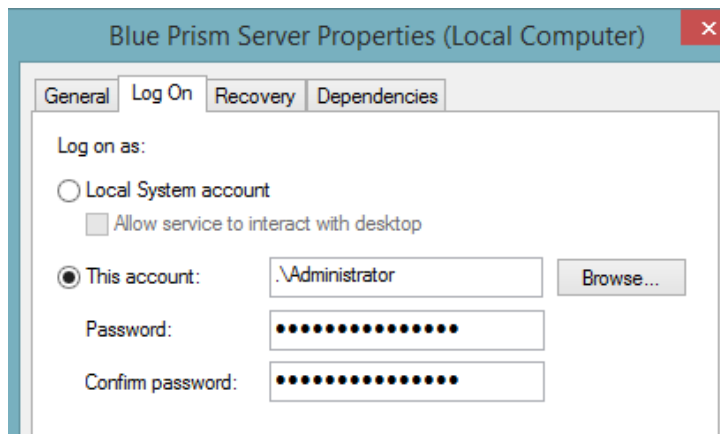


Figure 6: BP Server properties - I

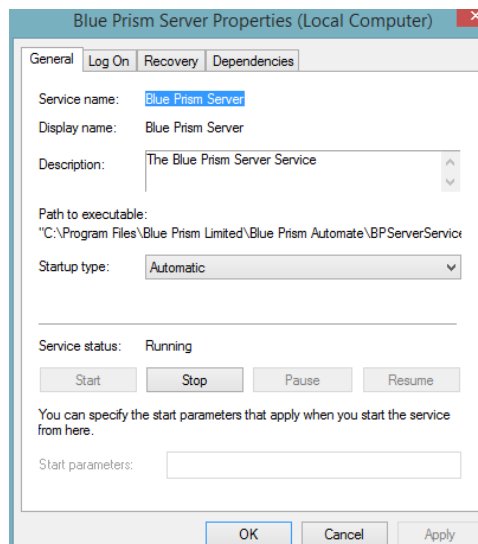


Figure 7: BP Server properties - II

3. Open the Blue Prism Server(BPServer.exe) from the installed Blue Prsim folder(g.8)

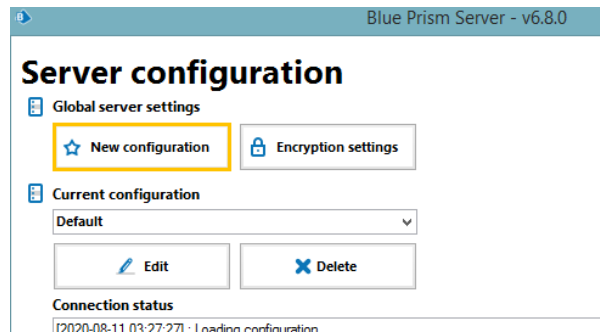


Figure 8: Blue Prism Server

4. Configure the settings as shown in fig. 9,10

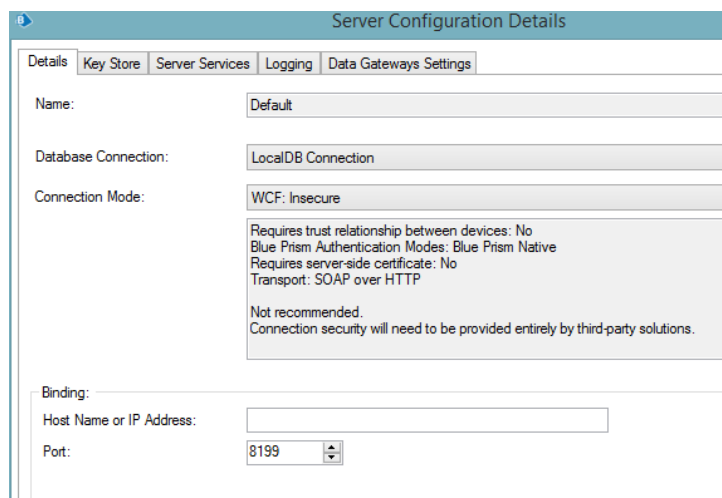


Figure 9: Server Configuration - I

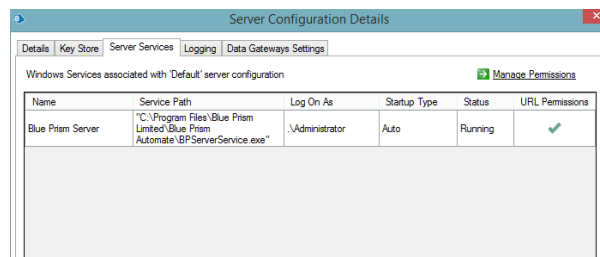


Figure 10: Server Configuration - II

5. Login back to the Blue Prism application and set up the database for BP Server as shown in fig. 11. Ensure that the connection type is set to \Blue prism server" and the IP address should be set to the IP Addr.(Limited; 2018) of the machine where the server has been configured.(host machine in this scenario)

6. Now sign in back to the Blue Prism application using the configured BP Server database connection as shown in fig.12

Connection Name:
The name by which this connection will be remembered

Connection Type:
The type of connection to use

Blue Prism Server:
The hostname of the Blue Prism Server

Connection Mode:
This must match the mode configured on the Blue Prism Server(s)

Server Port:
This must match the listening port configured on the Blue Prism Server(s)

Figure 11: BP Server database settings

Sign in to Blue Prism

Connection: [Configure connection](#)

Sign in with Blue Prism credentials

User name:

Password:

Figure 12: BP Server Login

Note that since Blue Prism has both separate client and server applications, now the server logged-in application will act as the Blue Prism server for all the machines in the network and also it would act like one of the clients(robot) in the Multi-robot setup.

3.3 Connecting Blue prism Client from VM

1. First install the Blue prism application in the VM as per 3.1
2. Login to the application using the BP Server connection(g. 13) using the same credentials as used in the host machine

[Sign in to Blue Prism](#)

Connection: [Configure connection](#)

Sign in with Blue Prism credentials

User name:

Password:

Figure 13: Adding a VM client to the BP network

Once connected, all the available resources can be visible as shown in g. 14

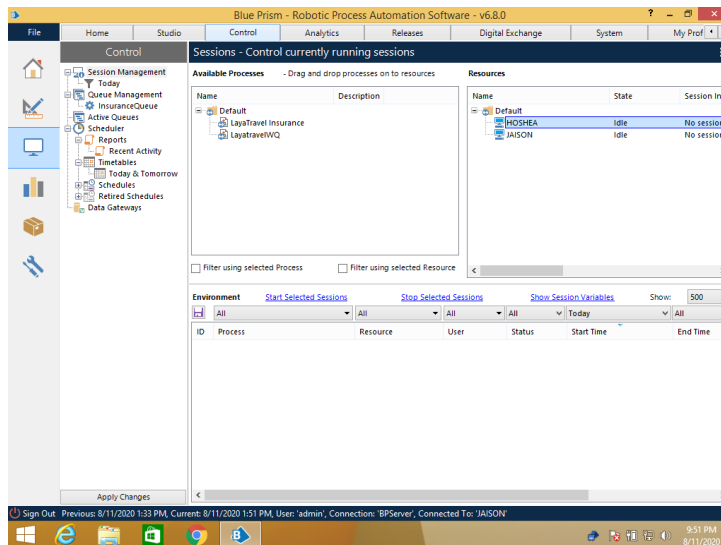


Figure 14: Multiple clients available

3.4 Sharing input file using drive mapping

Share the Excel input file named 'Insurance.xlsx'(zip file) using drive mapping so that all the machines can access the file during task execution.

1. Right-click the input file and select Share-Everyone as shown in g.15

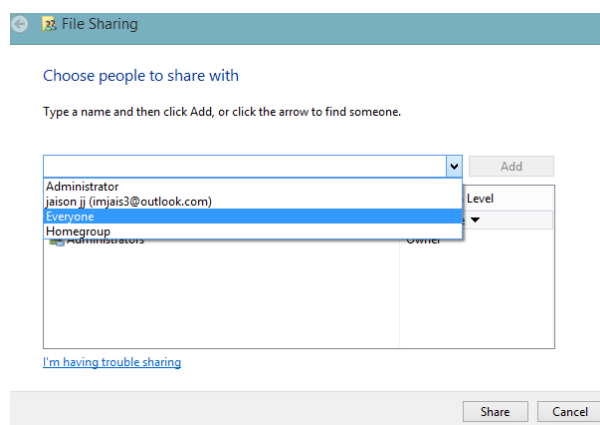


Figure 15: File sharing

2. Now map the network drive of the host machine with its IP address(g. 17). Use the same address and drive for the virtual machines as well. Now the input file can be used by any of the clients when required in the task execution process.

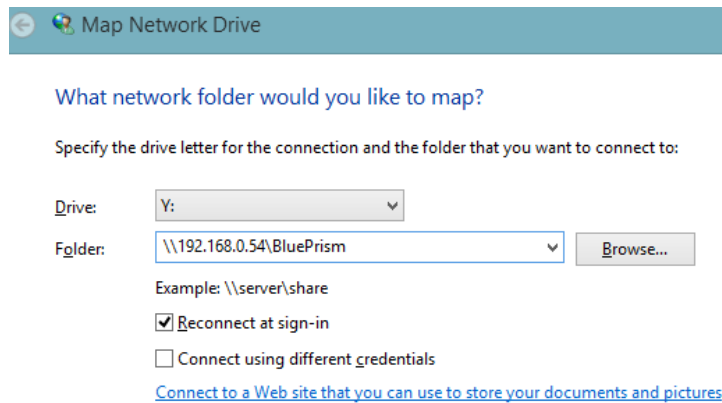


Figure 16: Mapping network drive

3.5 Execution of the task

1. Now import the bp release les(included in zip) named LayatravelWQ and laya-Google for both process and object studio respectively.

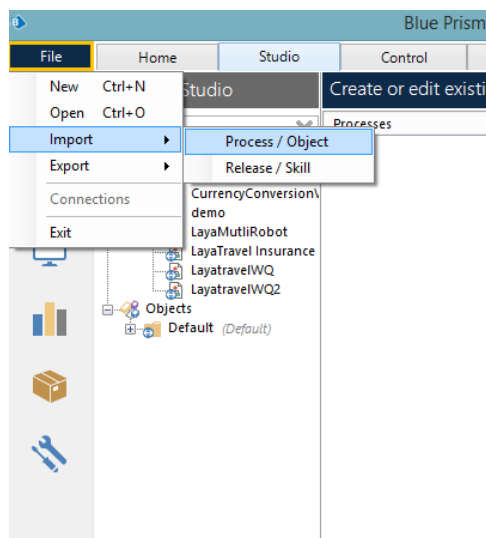


Figure 17: Importing release les

2. Since all the multiple robots are now connected, we can proceed with the execution. Execution can be done in two ways.
 - i. It can be done either using the Run option from the process Studio as shown in g.18
 - ii. Or it can be done using the Control room(g.19) where the process has to be just dragged to the multiple resources(bots)

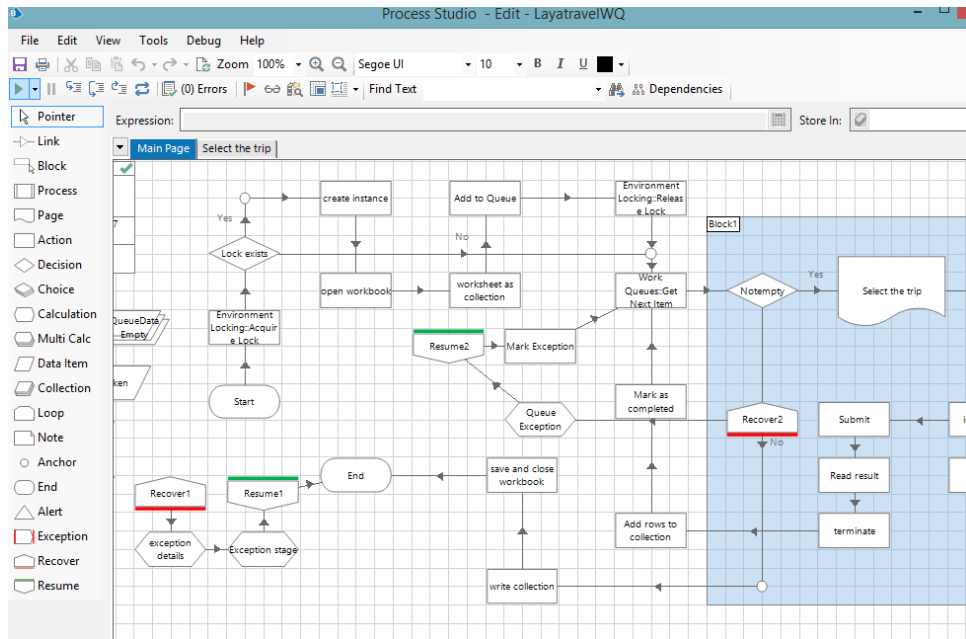


Figure 18: Execution through Process Studio

Sessions - Control currently running sessions		
Name	State	Session Info
Default	Idle	No sessions
HOSHEA	Idle	No sessions
JAISON	Idle	No sessions

Figure 19: Execution through Control Room

