

# BmcWorklogs - Automation Anywhere Readme

Version 1.0 October 21, 2019



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#### 1. Introduction

This document contains all essential information for the user to make full use of the Bot or Digital worker. This manual includes a description of the functions and capabilities and step-by-step procedures for setup & configuration of the Bot.

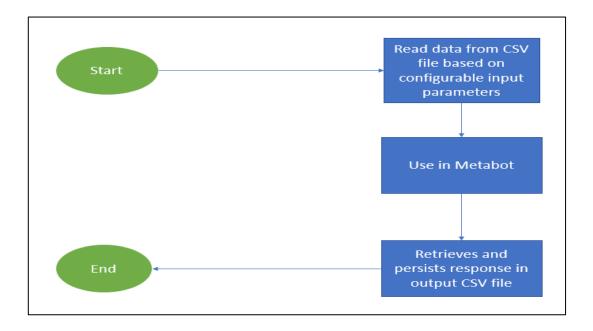
#### Overview

This Bot reads Information from a <u>CSV</u> Template based on Filter Conditions & other configurable parameters (as explained below) for Read Incident Worklogs use case, it will read the information from user input and store output in CSV File after processing input csv file and user input respectively.

#### Detailed steps are as follows:

- Reads data from a <u>CSV</u> file
   e.g. IncidentWorklogFilterInputFile.csv, IncidnetWorklogQueryInputFile.csv.
- 2) Exports data to the <u>CSV</u> Template based on Filter conditions set by a user. Filter conditions are as below (Click individual to read details)
  - Filter based on Column Value

#### Visual flow

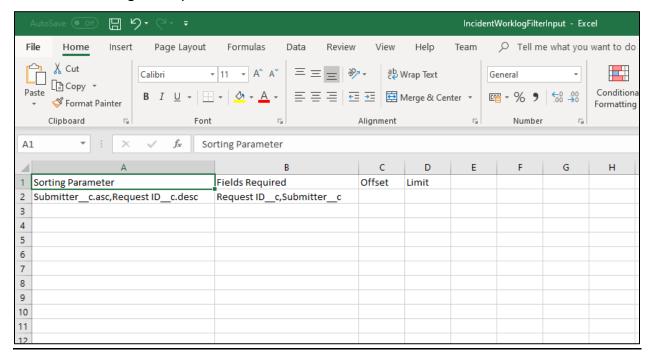




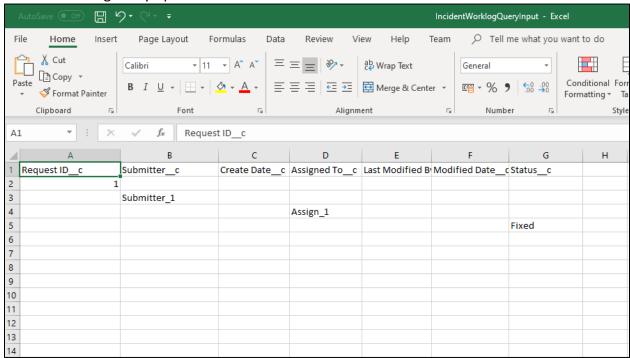
### **Read Incident Worklogs:**

## Input: Reads parameters from input csv file:

IncidentWorkLogFilterInput.csv

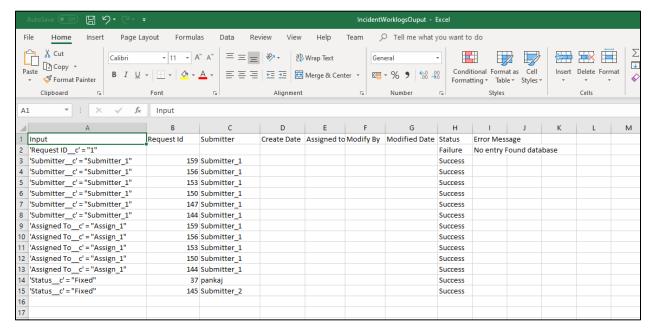


#### IncidentWorklogQueryInput.csv





# Output: Store output in csv file.



#### **Common Use cases**



A common use case, as shown above, is Read Incident Worklogs in an incident.

The fields in the <u>CSV</u> can be changed to whatever data that needs to be added in list.



# 2. Requirements & Prerequisites

## **System Requirements**



For the PC or server where the bot needs to run:

- ✓ RAM: 8GB or higher
- ✓ PROCESSOR: Intel Core i5 or higher and equivalent for any other OS
- ✓ Hard Disk: Up to 2GB of overall free space in the AA Client installation drive.

Reference below for Enterprise Client & Control Room system requirements.

#### **Prerequisites**



- Software's needed -
- ✓ AA Enterprise Client 11.3.3
- ✓ AA Enterprise Control Room 11.3.3
- Accounts/License needed –
- ✓ BMC Account. BMC account can be opened at <u>here</u>
- ✓ AA Enterprise License

#### **Security Measures**



There are some security best practice recommendations that you may follow with your bot.

- It is not recommended to provide admin access to the Windows User Account executing the Bots, to avoid unintended data changes with the <u>CSV</u> Template.
- It is recommended to rotate server password twice or more in a quarter using Server setting in Remedy Mid Tier Configuration Tool which ensure data safety.
- Password stored in credential vault should not be reused in other systems.



- Username used for BMC and stored in credentials vault should be reused in other systems only if corporate security policies allow it.
- BMC URL should use secure connection('https'). Configure your URL click here



# 3. Getting Started

## **Skill Matrix**



The functionality of the Bot has been divided into set of skills.

Below is an overview of how the task bots and metabots map to these skills:

Skill	Task Files	MetaBot Files
Read Incident Worklogs	ReadIncidentWorklogs.atmx	IncidentWorklogs.mbot

# **Installation Hierarchy**



Once the bot is downloaded and installed, the installer creates the files in the folder structure as shown below.



# **Folder Structure on your Machine**

Folder Structure	Description	
< AA Application Path >	<aa application="" path=""> is the location where AA files are stored on your machine</aa>	
1. My Tasks	<b>1. My Tasks</b> My Task Folder is the default directory where	
1.1. Bot Store	Bot Files are saved.  1.1 Bot Store  Bot Store Folder contains the Bot Name Folder	
1.1.1. BmcWorklogs - Automation Anywhere  ➤ Error Folder  • Logs  ○ Error logs Month-Day-Year.txt  • Snapshots	which the installer creates while installation of the Bot.  1.1.1 BmcWorklogs-Automation  Anywhere This folder gets created by the installer and contains files and folders that are needed for the bot execution.  Ferror folder is where logs and snapshots of	
<ul> <li>Snapshots</li> <li>Error Snap Month-Day-Year Hour</li> <li>Min Sec.png</li> </ul>	screens will be placed if something goes wrong with the bot during execution	
<ul> <li>Input Folder</li> <li>IncidentWorklogFilterInput.csv</li> <li>IncidentWorklogQueryInput.csv</li> </ul>	<ul> <li>Input Folder is where the input files are saved that are needed by the taskbot for execution of the use case</li> <li>IncidentWorklogFilterInput.csv provides parameters that can be used as filter conditions for the worklogs of the incident, provided and given as an input to the bot. There can only be one row which defines all the filter conditions based on Column header.</li> <li>IncidentWorklogQueryInput.csv provides parameters that can be used as query parameters or parameter with which worklogs need to be retrieved from the incident and given as an input to the bot. The value can be placed in one of the headers as multiple query parameters are not supported for single retrieve request.</li> </ul>	
<ul><li>Output Folder</li><li>IncidentWorklogsOuput.csv</li></ul>	➤ Output Folder is where the output files that the bot creates after execution of the use case is saved	



	<ul> <li>IncidentWorklogsOuput.csv contains         Read Incident Worklogs response along             with status and error message, if any.     </li> </ul>
<ul><li>My Tasks</li><li>ReadIncidentWorklogs.atmx</li></ul>	➤ My Tasks folder contains all the developed Platform Source Code
2. My MetaBots  ➤ IncidentWorklogs.mbot	My MetaBots folder contains the developed Metabots needed for the bot execution.

#### **Quick Start**

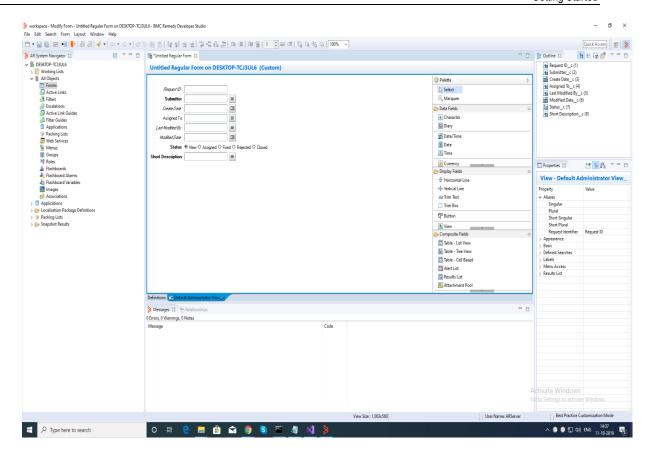
## 3.1.1 **Setup**



# 3.1.1.1 STEP 1 (Create form in the AR Server):

- If you already have a form created, then you can skip this step
- In AR System Navigator, expand *serverName* > All Objects.
- Right-click Forms, and select New Regular Form
- An Untitled Regular Form appears with the Core fields as displayed in the <u>Create Form window</u> and core fields figure.
- Right click on the Untitled Regular form and select save. Save the form with an appropriate form name.





For more information click here

#### 3.1.1.2 **Step 2 (Generating URLS and password ):**

- For https services ,AR Server URL is https://<server name>:<port>
- Port refers to the port number on which Jetty server is running.
- You can configure the port in AR server by changing jetty-config file.
- For more information click here.
- TokenURL: AR Server URL/api/jwt/login
- IncidentURL: AR Server URL/api/arsys/v1/entry/{form-name}
- Password should be changed at regular intervals, according to corporate policies.

For server password can be changed as:

#### Log in to Remedy MidTier - Configuration Tool

Go and edit the Server settings and update the password Update the password in credential vault.

**Note**: Here the form-name is the name of the form that we created in step 1.



#### 3.1.2 Configuration



#### STEP 1 (Configuring Credential in Control Room's Credential Vault)

Passwords and other sensitive information such as Server URL, Username and password used in automation tasks, should be stored as credentials centrally in the Credential Vault.

These sensitive data items are secured (stored in <u>CR</u>) and can't be accessed locally which is used by the bots when it executes in the machine.

Below are the step-by-step instructions for what needs to be done to set up the Server Url, Username and Password for BMC incident in the Credential Vault.

- 'Locker Consumer Role' needs to be assigned to the <u>AA</u> user (bot runner) which ensures the user have full access to the locker.
- Locker needs to created with name as "BMCIncident Locker"
- Credential needs to created with name as "BMCIncident\_Credential", where the URL and Token needs to be saved.

Locker Name	Credentials Name	Attribute Name	Value
BMCIncident_Locker	BMCIncident_Credential	TokenURL	Token URL value should be as mentioned in step 2 of SetUp.
BMCIncident_Locker	BMCIncident_Credential	IncidentURL	Incident URL should be as mentioned in step 2 of <u>SetUp</u> .
BMCIncident_Locker	BMCIncident_Credential	Username	Username of BMC Remedy AR server
BMCIncident_Locker	BMCIncident_Credential	Password	Password of BMC Remedy AR Server

For more information on how to set up credentials in the Control Room, please visit this link on the Automation Anywhere Product Documentation portal.

#### STEP 2 (Configuring Parameters with an External File)

#### External file can be configured at -

AA Application Path > My Tasks > Bot Store > BmcWorklogs - Automation Anywhere > Input > IncidentWorklogFilterInput.csv



AA Application Path > My Tasks > Bot Store > BmcWorklogs - Automation Anywhere > Input > IncidentWorklogQueryInput.csv

This is where, the input values for variables are stored which is needed by the bot at the time of execution. Headers in input csv file are fixed according to API call.

## Header fields in the input files are:

IncidentWorklogFilterInput.csv: Sorting Parameter, Fields Required, Offset, Limit.

**IncidentWorklogQueryInput.csv:** Request ID\_\_c, Submitter\_\_c, Create Date\_\_c, Assigned To\_\_c, Last Modified By\_\_c, Modified Date\_\_c, Status\_\_c.

Sensitive variables like Server URL, Username, Password are stored in credential vault.

Below is a table that summaries what the variable name is, what it does, and an example of the input & output:

#### Input variables:

INPUT VARIABLES: NEEDS TO BE CONFIGURED BY THE USERS FOR INPUT PARAMETER					
Variable Name	Typ e	Mandator y (Yes/No)	Purpose	Example Input	
vIncidentsWorklogsFilterInputFil e	Text	Yes	File Name for the template from which Bot reads the value of filter input like sorting parameter s or fields which user required from worklogs.	IncidentWorklogFilterInput.csv	
vIncidentsWorklogsQueryInputFi le	Text	Yes	File Name for the template from which Bot	IncidentWorklogQueryInput.csv	

			reads the value of query parameter s with which user required to fetch the worklogs.	
vReadIncidentsWorklogsOutputFile	Text	Yes	File Name for the response of Read Incident worklogs	IncidentWorklogsOuput.csv
vLogFolder	Text	Yes	Location where Logs folder is located	\$AAApplicationPath\$\Automati on Anywhere\MyTasks\BotStore\ BmcWorklogs-Automation Anywhere \Input Folder\Logs
vErrorFolder	Text	Yes	Location where Error folder is located	\$AAApplicationPath\$\Automati on Anywhere\MyTasks\BotStore\ BmcWorklogs-Automation Anywhere \Error Folder
vSnapshotFolder	Text	Yes	Location where Snapshot folder is located	\$AAApplicationPath\$\Automati on Anywhere\MyTasks\BotStore\ BmcWorklogs-Automation Anywhere \Error Folder\Snapshots
vInputFolder	Text	Yes	Location where Input folder is located.	\$AAApplicationPath\$\Automati on Anywhere\MyTasks\BotStore\ BmcWorklogs-Automation Anywhere \Input Folder
vOutputFolder	Text	Yes	Location where Output folder is located.	\$AAApplicationPath\$\Automati on Anywhere\MyTasks\BotStore\ BmcWorklogs-Automation Anywhere \Output Folder



vToken	Text	Yes	Token generated from Generate Token utility	axcvghll
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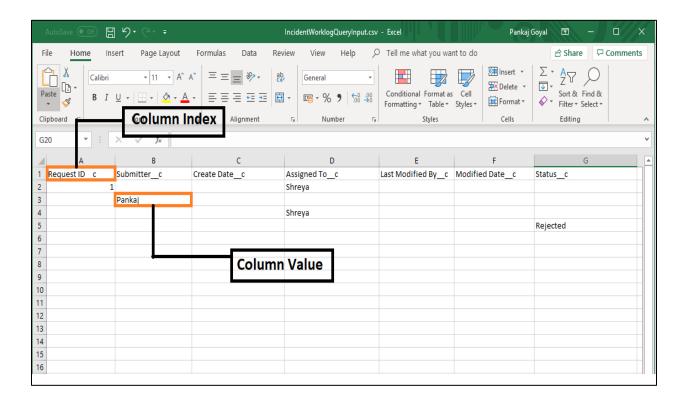
Guidance for configurating Filter conditions are described below:

#### a. Filter based on Column Value

vColumnIndex and vColumnValue variables are needed to configure this.

'vColumnIndex' is the column name which needs to be defined in the config file.

'vColumnValue' is the value which needs to be matched against the mentioned Column name.

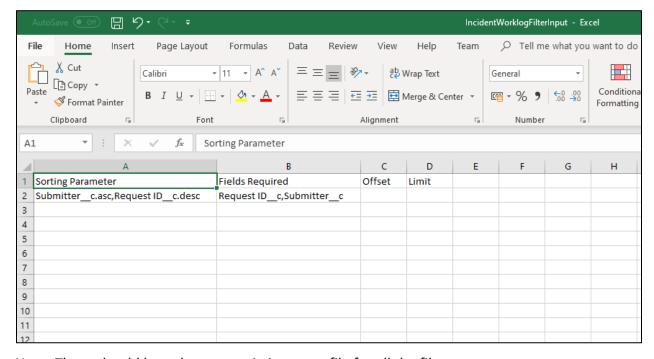


# **Input CSV Files-**

#### IncidentWorkLogFilterInput.csv

#### Optional Parameters-

File Parameter Name	Туре	Description	Example Input
Corting Darameter	Text	Sorting parameters with sorting order	Submitterc.asc
Sorting Parameter	Text	Fields which user wants to	Request IDc
Fields Required		display	
Offset	Text	Starting index after which result are fetched	10
Limit	Text	Maximum No of results displayed	10



Note: There should be only one row in input csv file for all the filter parameters.

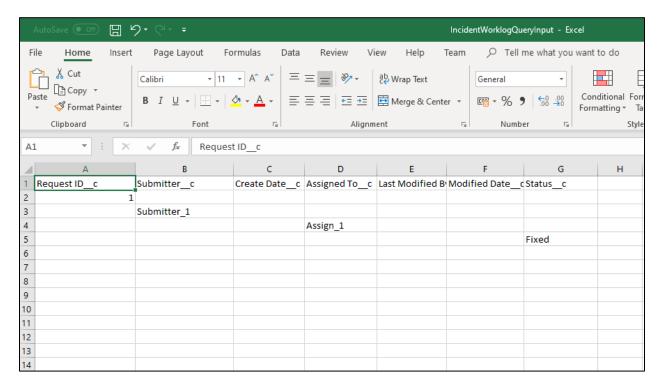
#### IncidentWorkLogQueryInput.csv

#### Optional Parameters-

File Parameter Name	Туре	Description	Example Input
	Text	Incident Id which details to	000000000000143
Request IDc		be displayed	



Submitterc	Text	Name of the submitter of incident	Submitter_1
Create Datec	Text	Incident create Data	2019-10- 14T06:55:26.000+0000
Assigned Toc	Text	Incident assignee name	Assignee_1
Last Modified Byc	Text	AR Server which updates the incidents lastly	ARServer
Modified Datec	Text	Date on which incident has been modified	2019-10- 14T06:55:26.000+0000
Statusc	Text	Status of the incident	Fixed



Note: There must be only one entry in every row of the input file.



# 4. Reports



There are no Bot Insight Reports generated for this Bot.



# 5. Logs



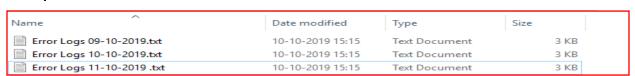
In case of Errors, Error Logs & Screenshots are generated within Error Folder (Highlighted below in yellow)

- o My Tasks
  - Bot Store
    - Bot Name
      - o Error Folder
        - Logs (Folder)
          - Error Logs Month-Day-Year.txt
        - Snapshots (Folder)
          - Error Snap Month-Day-Year HourMinSec.png

#### Error Logs will contain the below information -

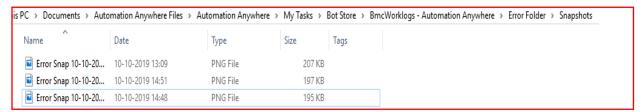
- Task Name
- Error Line Number
- Error Description
- Generated Timestamp

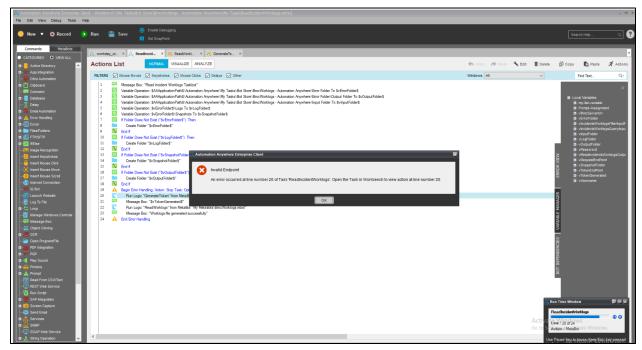
#### **Example:**





## **Example of Screenshot Generated Error File:**







# 6. Troubleshooting & Support



#### **Support**



Free bots are currently not supported directly.



Questions on Bot Functionality or Feature can also be posted to our Community site Apeople

Automation Anywhere provides a <u>Product Documentation portal</u> which can be accessed for more information about <u>AA</u>'s products and guidance on building bots and Digital Workers.

The "Build" section of the portal includes these sections:

- Getting Started information on building bots recommended practices (including use of the Credential Vault)
- Build Advanced Bots details on MetaBots and the approach to integrating code into them
- Build Digital Workers high level architecture
- •

#### **FAQs**



Q: The 'Create Locker' button not visible in the Credential Vault Page. What do I do?

A: Please check if the role 'Locker Consumer' is assigned to the user and you are using an Enterprise Client version.



# **Appendix A: Record of Changes**

No.	Version Number	Date of Change (DD/MM/YYYY)	Author	Notes
1	1.0	October 21, 2019	Pankaj Goyal Nikhil Gupta	Version 1 Release



# **Appendix B: Acronyms**

No.	Acronym	Description
1	AA	Automation Anywhere
2	CSV	Comma Separated File
3	DW	Digital Worker
4	CR	Credential Vault
5	CRM	Customer Relationship Management
6	API	Application Programming Interface
7	PC	Personal Computer
8	RAM	Random Access Memory
9	OS	Operating System



# **Appendix C: References**

No.	Topic	Reference Link
1	System Requirements - Client	Click <u>here</u>
2	System Requirements – Control Room	Click <u>here</u>
3	How to create credential & Locker?	Click <u>here</u>
4	Credential Overview	Click <u>here</u>
5	Apeople Community Site	Click <u>here</u>
6	Product Documentation portal	Click <u>here</u>