



# **ResolveTextCaptcha-Automation Anywhere-**

## **Readme**

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**Version 1.0**  
**19/11/2019**

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## 1. Introduction

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This document contains all essential information for the user to make full use of the Resolve Text Captcha Bot. This manual includes description of the functions and capabilities and step-by-step procedures for setup & configuration of this Bot.

### Overview

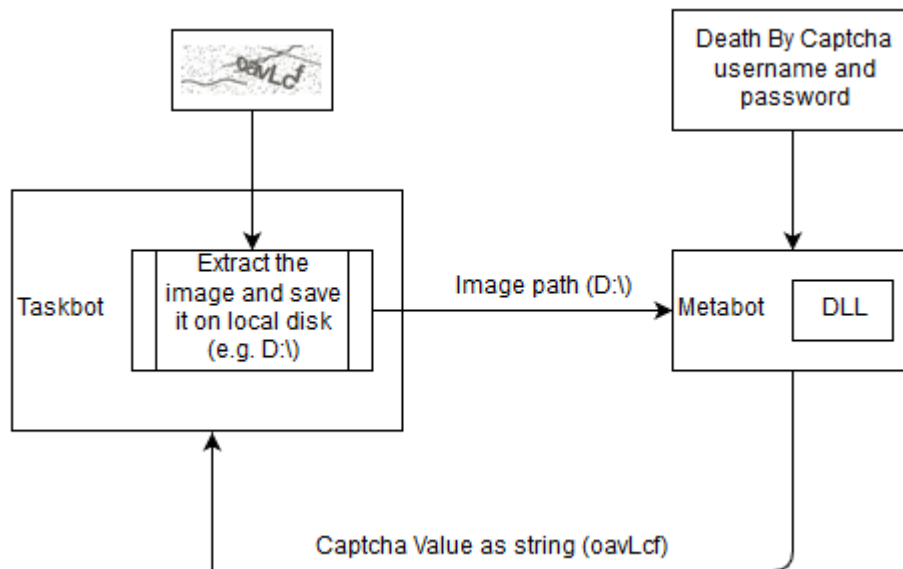
The Resolve Text Captcha Bot, as the name suggests uses third party tool named Death By Captcha to give the value of captcha specified in the image. It supports captchas which have text (alpha-numeric) **but this bot does not work for multi-image “re-captcha” based check.**

**Detailed steps are as follows:**

- 1) Task bot creates the necessary folder structure and initializes variables (Note: this can be customized)
- 2) It then calls the metabot which which invokes the endpoint provided by “death by captcha” API
- 3) Metabot requires 3 parameters:
  - a. username of deathbycaptcha account (see prerequisites section below for details)
  - b. password of deathbycaptcha account (see prerequisites section below for details)
  - c. complete local file path of the captcha image, whose value is required as text
- 4) Metabot gives only single value as output parameter:
  - a. Text value of captcha image
- 5) This value can be subsequently used in the bot processing.

In case the value is different, and bot does not proceed, we can claim a refund from death by captcha using reference provided in the logs.

- **Visual Flow –**



- **Input and Output Example –**

**Input** – configuration file contains username and password for death by captcha.

Eg: captcha.txt containing vDeathByCaptchaUsername

Please note, the URL is mandatory for sample task bot to run (which ships with the metabot), however, the actual use of vCaptchaURL depends upon the person using metabot.

For the sake of simplicity, the password is stored in plain text here. However, for enhanced security, we may want to leverage credential vault. Please see Appendix C points 3 and 4 for more information around Credential Vault and its usage.

```

1 vCaptchaURL=https://www.phpcaptcha.org/try-secimage/
2 vDeathByCaptchaUsername=<username created in deathbycaptcha>
3 vDeathByCaptchaPassword=<password set in deathbycaptcha>

```

**Output** – The output of metabot is then used by taskbot to enter the text in designated text box. Also, the input folder stores the images on which the captcha bot was called.

- **Output: No specific output, audit log saves the deathbycaptcha response**

## Common Use cases



Most use cases revolve around login page where alphanumeric captcha is used to ascertain whether a human is entering the details. A simple use case is demonstrated in the task bot packaged as part of this setup. You would want to write your own task bot depending on your use case or the portal you are trying to automate.

## 2. Requirements & Prerequisites

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### 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



- **Softwares needed -**
  - ✓ [AA](#) Enterprise Client 11.x
  - ✓ [AA](#) Enterprise Control Room 11.x
- **Accounts/Licenses needed –**

[DeathByCaptcha](#) account with gold membership. Although this bot is free, you would still require payment at third party to obtain login credentials which would work with this metabot. Membership and payment details are listed on their website [here](#).

  - ✓ [AA](#) Enterprise License

## Security Measures



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

- It is not recommended to have password in plaintext config file, please use credential vault or secure identity management tool provided by AAE software or any vault which your enterprise is using. This wrapper task bot is just to showcase the execution flow.

### 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
ResolveTextCaptcha bot checking and creating required folder structure	ResolveTextCaptcha-AutomationAnywhere.atmx	No Metabots
Save the image	ResolveTextCaptcha-AutomationAnywhere.atmx	No Metabots
Call DeathByCaptcha API to get response and write it to the corresponding textbox	ResolveTextCaptcha-AutomationAnywhere.atmx	ResolveTextCaptcha-AutomationAnywhere.mbot
Check whether captcha was correct or not	ResolveTextCaptcha-AutomationAnywhere.atmx	No Metabots

#### 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
<p><b>&lt;AA Application Path&gt;</b></p> <p><b>1. My Tasks</b></p> <p><b>1.1. Bot Store</b></p> <p><b>1.1.1 ResolveTextCaptcha-AutomationAnywhere</b></p> <ul style="list-style-type: none"> <li>➤ <b>Error Folder</b> <ul style="list-style-type: none"> <li>• <b>Logs</b> <ul style="list-style-type: none"> <li>○ Error logs DayMonthYearHourMinSec.log</li> </ul> </li> <li>• <b>Snapshots</b> <ul style="list-style-type: none"> <li>○ Error Snap DayMonthYearHourMinSec.log</li> </ul> </li> </ul> </li> <li>➤ <b>Input Folder</b> <ul style="list-style-type: none"> <li>• captcha.txt</li> <li>• CaptchaFileDayMonthYearHourMinSec.png</li> </ul> </li> <li>➤ <b>Output Folder</b> <ul style="list-style-type: none"> <li>• Audit Logs <ul style="list-style-type: none"> <li>▪ AuditDayMonthYearHourMinSec.log</li> </ul> </li> </ul> </li> </ul>	<p><b>&lt;AA Application Path&gt;</b> is the location where AA files are stored on your machine. Sample path being &lt;drive&gt;:\&lt;username&gt;\My Documents\Automation Anywhere Files\</p> <p><b>1. My Tasks</b></p> <p>My Task Folder is the default directory where Bot Files are saved.</p> <p><b>1.1 Bot Store</b></p> <p>Bot Store Folder contains the Bot Name Folder which the installer creates while installation of the Bot.</p> <p><b>1.1.1 ResolveTextCaptcha-Automation Anywhere</b></p> <p>This folder gets created by the installer and contains files and folders needed for the bot execution.</p> <p>➤ <b>Error folder</b> is where logs and snapshots of screens will be placed if something goes wrong with the bot during execution.</p> <p>➤ <b>Input Folder</b> is where the input files that the bot needs for execution of the use case is saved. <ul style="list-style-type: none"> <li>• <b>captcha.txt</b> is where the values need to be setup for the bot to run.</li> <li>• <b>CaptchaFileDayMonthYearHourMinSec.png</b> is the file that gets created when bot runs on a given captcha file.</li> </ul> </p> <p>➤ <b>Output Folder</b> is where the output files that the bot generates <u>after execution</u> of the request is saved. <ul style="list-style-type: none"> <li>• <b>Audit Logs</b></li> </ul> </p>

<ul style="list-style-type: none"> <li>➤ <b>My Tasks</b> <ul style="list-style-type: none"> <li>• ResolveTextCaptcha-AutomationAnywhere.atmx</li> </ul> </li> <li>➤ <b>My MetaBots</b> <ul style="list-style-type: none"> <li>• ResolveTextCaptcha-AutomationAnywhere.mbot</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▪ Contains log of all the activities performed by the master bot in log file in format of Day-Month-Year Hour-Minute-Second.log</li> <li>➤ <b>My Tasks</b> folder contains all the Developed Platform Source Code</li> <li>➤ <b>My MetaBots</b> folder contains the Developed Metabots needed for the bot execution. This bot contains the DLL which has code required to call deathbycaptcha API</li> </ul>
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## Quick Start

### 3.1.1 Setup



#### STEP 1 (Setting up a DeathByCaptcha Account):

Go to deathbycaptcha.com and click on “Create a FREE account”.

Fill in the details (along with re-CAPTCHA to make sure you are NOT a bot creating an account) and click on Submit button.

Confirm the account by clicking on the link obtained in email used to register for account creation.

Apply for GOLD membership and pay the requisite amount.

### 3.1.2 Configuration



#### STEP 1 (Configure the task bot)

Configure the task bot to access the website (login) page that you are trying to automate.

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

External file can be configured at -

**AA Application Path** > My Tasks > Bot Store > ResolveTextCaptcha-AutomationAnywhere > Input Folder > captcha.txt

Below is the how the configuration file looks having some sample values.

```

1 vCaptchaURL=https://www.phpcaptcha.org/try-securimage/
2 vDeathByCaptchaUsername=<username created in deathbycaptcha>
3 vDeathByCaptchaPassword=<password set in deathbycaptcha>

```

This is where, the input values for variables are stored which are needed by the bot at the time of execution. (Sensitive variables – like username, password, and URLs will be an input in the Credential vault)

In the ServiceNow Connector Configuration.txt, variable values need to be defined as per the user's requirement. Below is a table that summaries what the variable name is, what it does, and an example of the input:

Variable Name	Type	Mandatory (Yes/No)	Purpose	Sample Input values
vCaptchaURL	Text	Yes	URL of the website you want to automate could be added here.	<ul style="list-style-type: none"> <li>https://www.phpcaptcha.org/try-securimage/</li> </ul>
vDeathByCaptchaUsername	Text	Yes	This is username of deathbycaptcha account created above should be added here for testing the application. <b>Please note, this is for sample purpose only. We MUST use credential vault/secure identity management tool for storing sensitive information for UAT and production cases</b>	<ul style="list-style-type: none"> <li>Any value that is as per the guidelines and availability on the deathbycaptcha website.</li> </ul>
vDeathByCaptchaPassword	Text	Yes	This is username of deathbycaptcha account created above should be added here for testing the application. <b>Please note, this is for sample purpose only. We MUST use credential vault/secure identity management tool for storing sensitive information for UAT and production cases</b>	<ul style="list-style-type: none"> <li>Any value that is as per the guidelines on the deathbycaptcha website and set by the end user.</li> </ul>

## 4. Reports

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*There are no Bot Insight Reports generated for this Bot.*

## 5. Logs



- **Error Logs**

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


- My Tasks
  - Bot Store
    - Bot Name
      - Error Folder
        - Logs (Folder)
          - **ErrorDayMonthYearHourMinSec.log**
        - Snapshots (Folder)
          - **Error Snap Month-Day-Year Hour Min Sec.png**

Error Logs will contain the below information -

- Generated Timestamp
- Error Line Number
- Error Description

**Example:**

↑ << Automation Anywhere Files > Automation Anywhere > My Tasks > Bot Store > ResolveTextCaptcha-AutomationAnywhere > Error Folder > Logs

Name	Date modified	Type	Size
 Error15112019164441.log	15-11-2019 16:44	Text Document	1 KB

```

1 | (15-11-2019 16:44:41) -----
2 | Error Line Number: 49
3 | Error Description: Unable to check the Captcha value.....Check system logs for more details..
4 | -----
  
```

- **Audit Logs**

- Audit log is generated to store information about the images on which captcha service was used, along with the actual value received for the captcha image. DeathByCaptcha

also provides a token for each response. In case we feel that response is incorrect, we can let deathbycaptcha know by providing them with this reference number.

### Example:

Automation Anywhere > My Tasks > Bot Store > ResolveTextCaptcha-AutomationAnywhere > Output Folder > Audit Logs

Name	Date modified	Type	Size
Audit19112019173217.log	19-11-2019 17:33	Text Document	1 KB
Audit19112019173736.log	19-11-2019 17:38	Text Document	1 KB

1 (19-11-2019 17:38:12) For D:\[redacted]\My Documents\Automation Anywhere Files\Automation Anywhere\My Tasks\Bot Store\ResolveTextCaptcha-AutomationAnywhere\Input Folder\CaptchaFile19112019173737.png the value obtained from deathbycaptcha API was: [redacted]

2 (19-11-2019 17:38:20) For above message from the website was: The code was entered correctly.

3 (19-11-2019 17:38:20) If you think the captcha was recognized incorrectly, please reach out to death by captcha using below code for help with refunds: [redacted]

## 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 [Product Documentation portal](#) which can be accessed for more information about [AA](#)'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: I have registered on DeathByCaptcha but API is not giving me response, what should I do?

A: Please make sure you purchase a package from deathbycaptcha, merely registering on that portal won't be helpful. Even though the bot is free, deathbycaptcha charges are still applicable.

### Disclaimer

This bot is used to automate captchas, with use cases hovering around login and authentication purposes. If the website/portal we are trying to automate does not allow bots to access it legally, Automation Anywhere or Death By Captcha would not be responsible for the consequences and client implementing it would be completely and solely accountable for such issues, if they arise.

## Appendix A: Record of Changes

No.	Version Number	Date of Change (DD/MM/YYYY)	Author	Notes
1	1.0	19/11/2019	Durgesh Ramani	Version 1 Release



## Appendix B: Acronyms

No.	Acronym	Description
1	AA	Automation Anywhere
2	CSV	Comma Separated Values (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
10	JSON	JavaScript Object Notation

## Appendix C: References

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