

# **A2019 - Visual Recognition Using IBM Watson**

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## **README**

**Version A2019.16**

**10/11/2020**

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## 1. Introduction

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This document contains all essential information for the user to make full use of this A2019 – Visual Recognition Using IBM Watson. It includes a description of the functions and capabilities and step-by-step procedures for setup & configuration of the A2019 – Visual Recognition Using IBM Watson

### Overview

- This Bot automatically creating Approot "C:\Automation A2019\Bots\"
- This Bot will analyze images for scenes, objects, and other contents
- The Bot will open the python script and executing python functions for IBM Visual Recognition-k5 api
- Visual Inspection enables reliability and quality to identify and detects visual details into app root folder
- This bot will detecting general objects and visual details

The key use cases include:

1. quality identify and defects visual details Using IBM Watson

## Requirements & Pre-requisites

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### 1.1 System Requirements

#### [Enterprise A2019 \(Cloud deployed\) and Community Edition device requirements.](#)

Review the machine hardware specifications, operating system versions, and browser types supported by Automation Anywhere Enterprise for creating and running bots and command packages as an Enterprise A2019 (Cloud deployed) or Community Edition user on your local machine.

### 1.2 Prerequisites

1. Automation anywhere enterprise A2019 enterprise installed.
2. Python 3.8 or later installed
3. IBM cloud Visual Recognition - K5 API key and URL

## 2. Getting Started

### 2.1 Quick Start

#### 2.1.1 Configuration and Use

OUTPUT VARIABLES: Output Variables to be mentioned in this Table.					
Variable Name	Type	Mandatory	Purpose	Direction	Example Output
sApi_Key	String	Yes	Provide your IBM Visual Recognition .K5 API Key  NOTE: Pls configure this variable with the required API Key		Ex: nivFDzauF*****Wg4CRwh
sIBM_Url	string	Yes	Please provide your IBM Visual Recognition K5 – Credentials-URL  Note: Please Configure This variable with the required url for Recognition		Ex: <a href="https://api.us-south.visual-recognition.watson.cloud.ibm.com/instances/166-fb21-4228-82a236">https://api.us-south.visual-recognition.watson.cloud.ibm.com/instances/166-fb21-4228-82a236</a>
fMainForm	String	Yes	Configure Your Visual Recognition input form path		Ex: Bot Store\A2019 - Visual Recognition Using Watson - KLOUDPAD Mobility Research Pvt Ltd\Visual Recognition



sAppRoot	String	yes	This variable is shows the major root of the this bot  It shows Output files, log files and temp files.		
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*\*Sample Excel files is included in this bot (Control room files)*

## Steps for Configuring

### Step 1: Installing PIP on Windows

Open the command Prompt. Use the `cd` command followed by a folder name to navigate to the location of the `get-pip.py` file. This is the folder you previously used as the download location.

To install PIP type in the following:

- `python get-pip.py`

You can upgrade PIP on Windows using the Command Prompt window. To upgrade PIP on Windows, enter the following in the command prompt:

- `python -m pip install --upgrade pip`

### Step 2: Installing Packages

- Install Python SDK for IBM = `pip install --upgrade "ibm-watson>=4.6.0"`
- Install Json = `pip install json`



Install below python packages:

1. Pip install cherrypicker
2. Pip install pandas
3. Pip install os

### Step 3: Enable Breathe API

- Open IBM Cloud and Go to Below path:  
“Dashboard/Services /Resource list /Service Credentials / Auto-generated service credentials”

The screenshot shows the IBM Cloud console interface for a Visual Recognition service instance named 'Visual Recognition-k5'. The instance is active. The left sidebar contains a 'Manage' menu with options: 'Getting started', 'Service credentials', 'Plan', and 'Connections'. The main content area is titled 'Start by viewing the tutorial' and includes buttons for 'Launch Watson Studio', 'Getting started tutorial', and 'API reference'. On the right, there is a 'Plan' section showing 'Lite' and an 'Upgrade' button. Below this, the 'Credentials' section displays an API key (redacted with dots) and a URL: 'https://api.us-south.visual-recognition.watson.cloud.ibm.com/instances/8fa15166-fb21-4228-a:'. There are 'Download' and 'Show credentials' links above the API key field. At the bottom, a note says 'View all credentials in the Service credentials tab.'

## 4. Support & FAQs

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### 4.1 Support

Free bots are not officially supported. You can get access to Community Support through the following channels:

- You can get access to Community Support, connecting with other Automation Anywhere customers and developers on [APeople](#) – the [Bot Building Forum](#), the [Bot Store Support Forum](#), or the [Developers Everywhere Group](#).
- Automation Anywhere also provides a [Product Documentation portal](#) which can be accessed for more information about our products and guidance on [Enterprise A2019](#).

### 4.2 FAQs

For questions relating to Enterprise A2019: See the [Enterprise A2019 FAQs](#).



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## Appendix A: Record of Changes

No.	Version Number	Date of Change	Author	Notes
1.	1.0	10/11/2020	Shahid Badusha	Release Version

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## Appendix B: References

No.	Topic	Reference Link
1	Overview of Enterprise A2019	Click <a href="#">here</a>
2	Guidance: Building basic A2019 bots	Click <a href="#">here</a>
3	Guidance: Building A2019 action packages	Click <a href="#">here</a>
4	APeople Community Forum	Click <a href="#">here</a>
5	Automation Anywhere University	Click <a href="#">here</a>