

# Setting Up the Cloud Orchestrator and Robots

The Orchestrator setup in Cloud is very simple compared to the on-prem setup as all the setup is already managed by UiPath and we just need to get a license for its usage. We will use a Trial version setup to demonstrate its setup and its capabilities.

## UiPath Cloud Setup

1. Login to our desktop or set up an EC2 instance with Windows Server 2019 type and login to the Admin account. This will be the workspace where we will access the Cloud orchestrator and also set up a Studio/Studio Pro developer studio and an Assistant to run the bot.
2. Setup a trial account at this URL: [https://cloud.uipath.com/portal\\_/register?subscriptionPlan=trial](https://cloud.uipath.com/portal_/register?subscriptionPlan=trial)

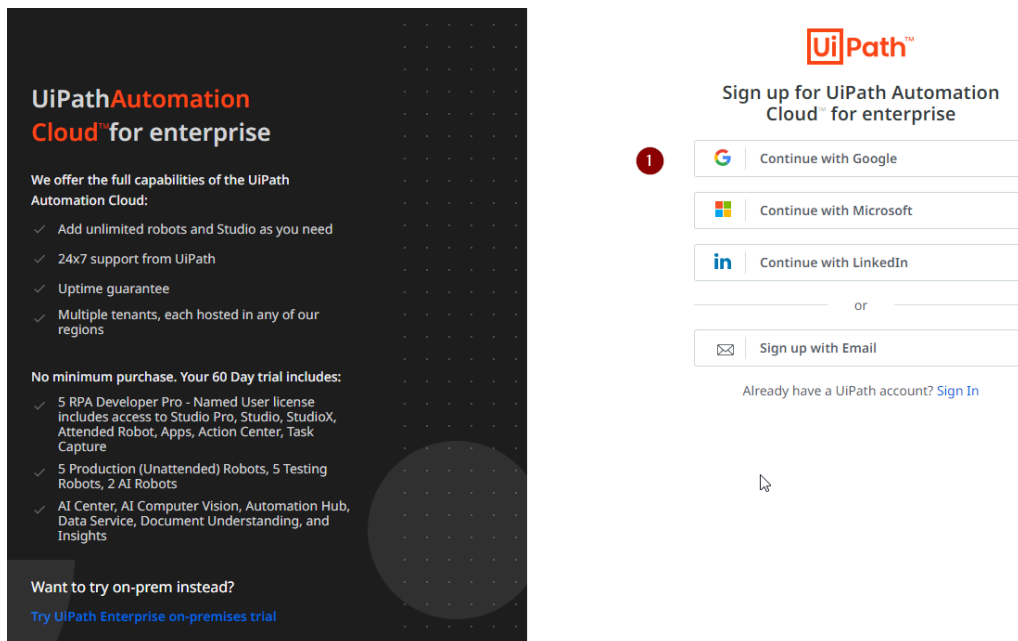


Figure B.01

2      **Setting Up the Cloud Orchestrator and Robots**

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3.      Once the UiPath cloud account is created, please log in with the same credentials.

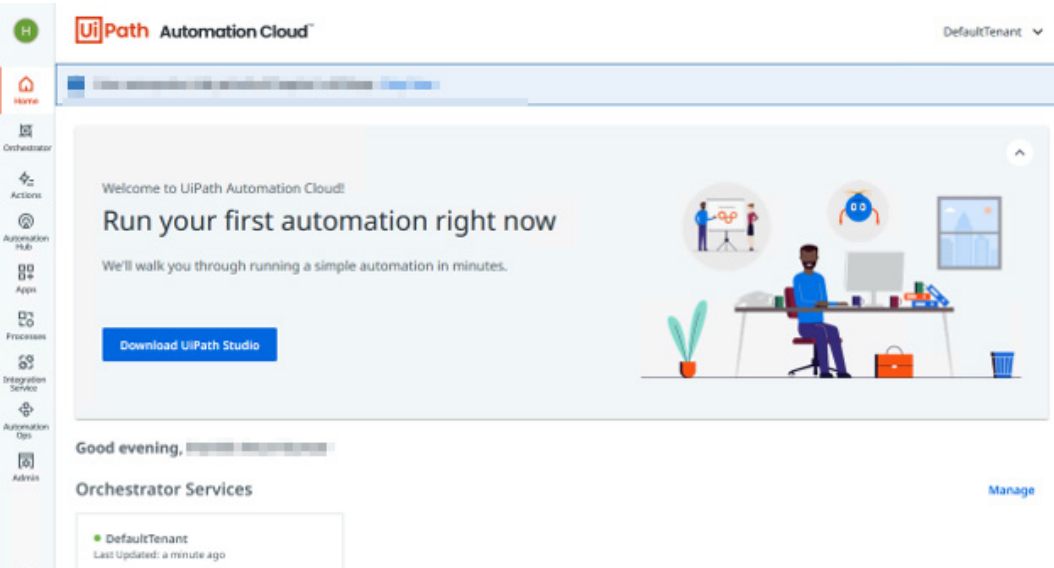


Figure B.02

4.      Check the licenses allocated for the Trial account. RPA Developer (Studio /Studio X), Attended and Unattended Robot and Non-prod & Test robots licenses are allocated as part of the Trial setup.

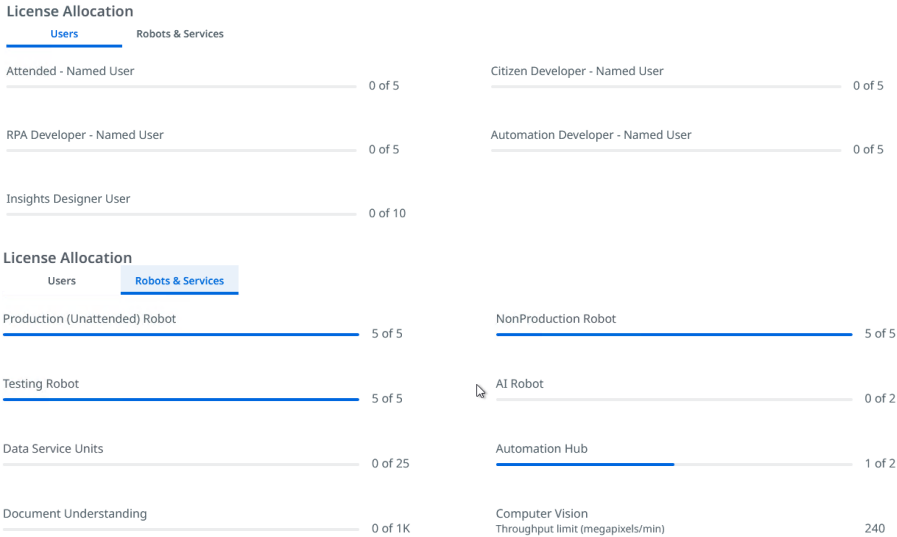


Figure B.03

## Install UiPath Studio and Assistant

1. Once the licenses allocation is confirmed, install the UiPath studio and an Assistant to run the automation. The installer file is also available for download from the Cloud orchestrator account.

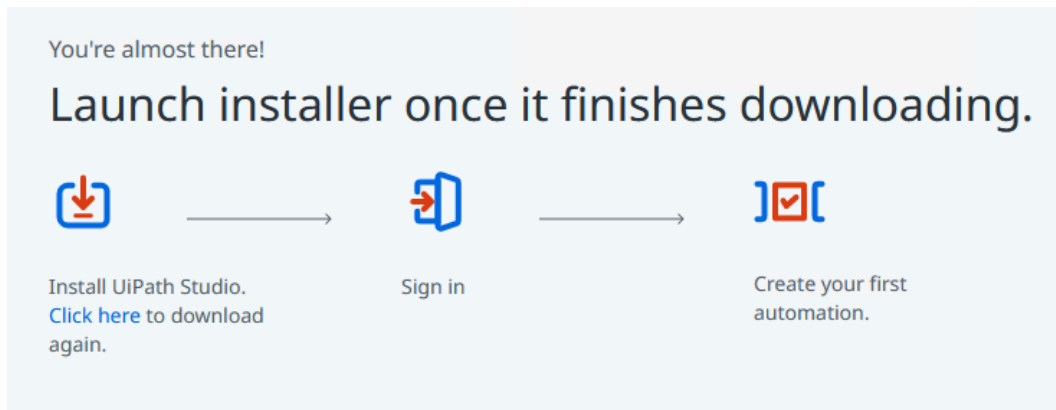


Figure B.04



Figure B.05

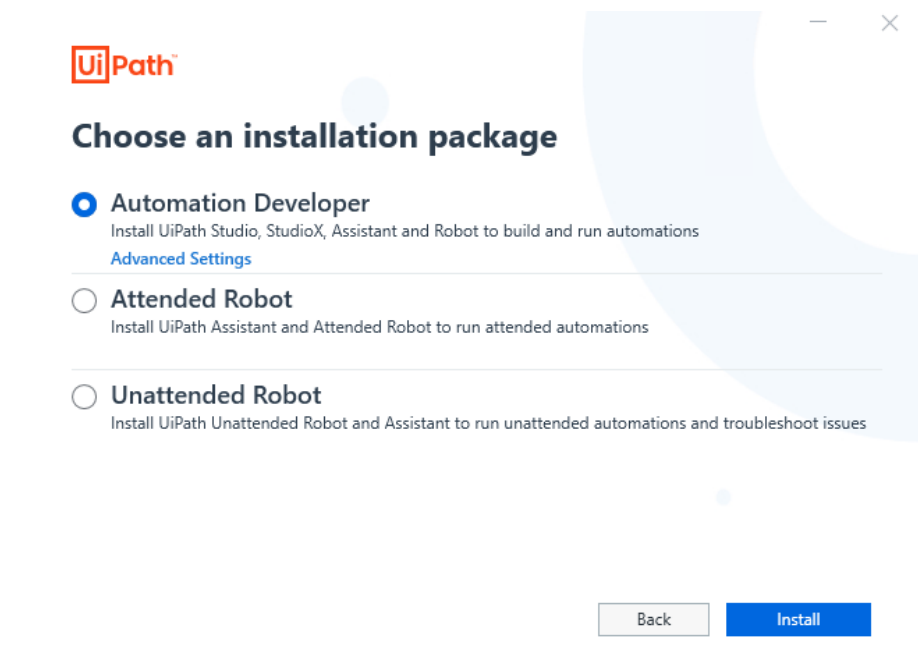


Figure B.06

2. After you download and install the Studio and assistant, verify the software from the tray.

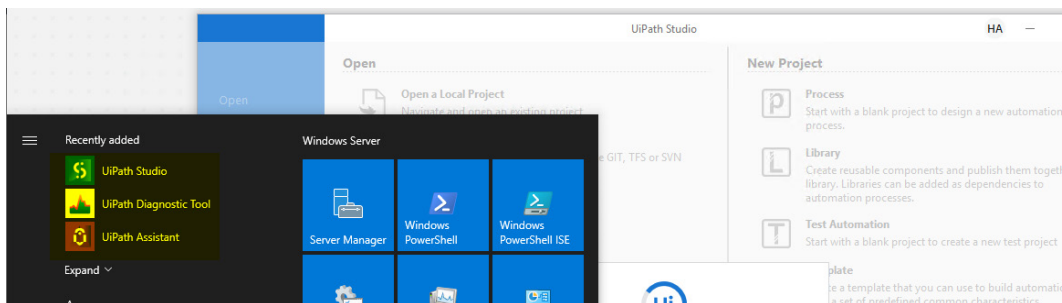


Figure B.07

3. We need to add this machine to Orchestrator now. Login to Orchestrator and add a Standard machine in the Orchestrator

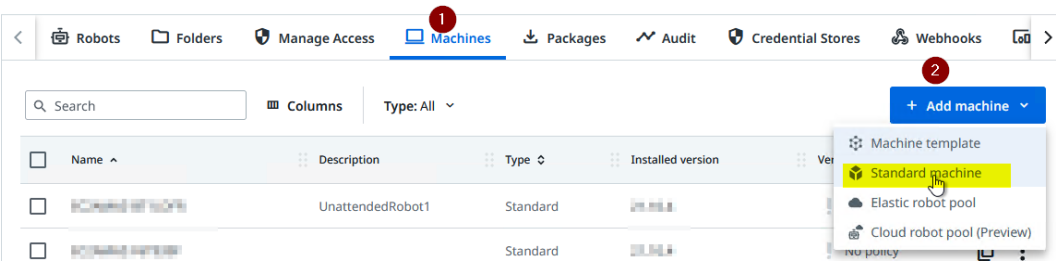


Figure B.08

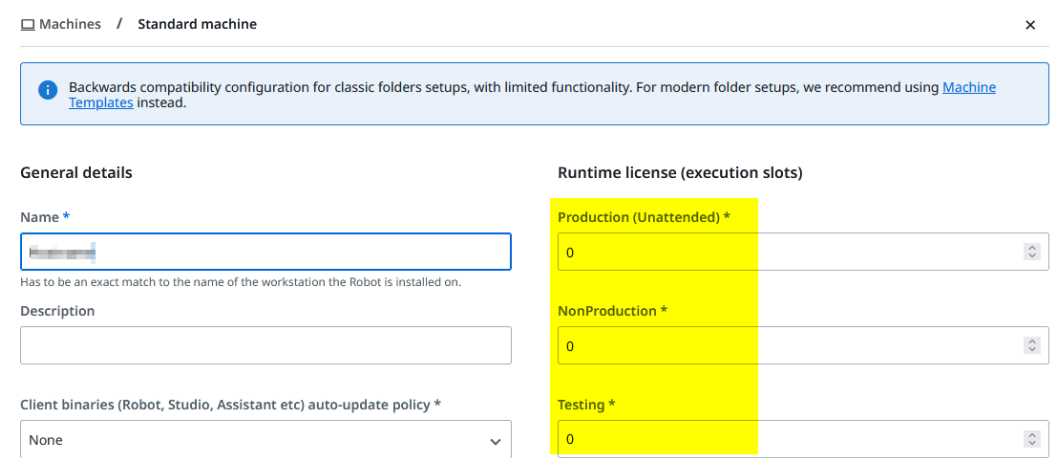


Figure B.09

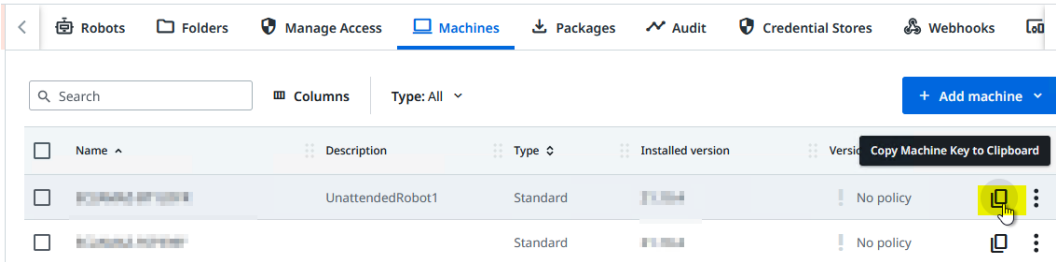
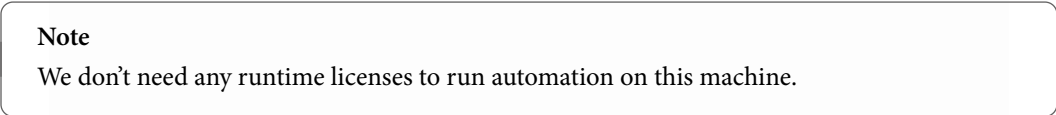


Figure B.10

4. Once the machine is added, copy the machine key.
5. Now launch and login to UiPath Assistant with the user account you registered and then open the Orchestrator setting. Then update the orchestrator URL from the cloud setup URL and provide the copied machine key.

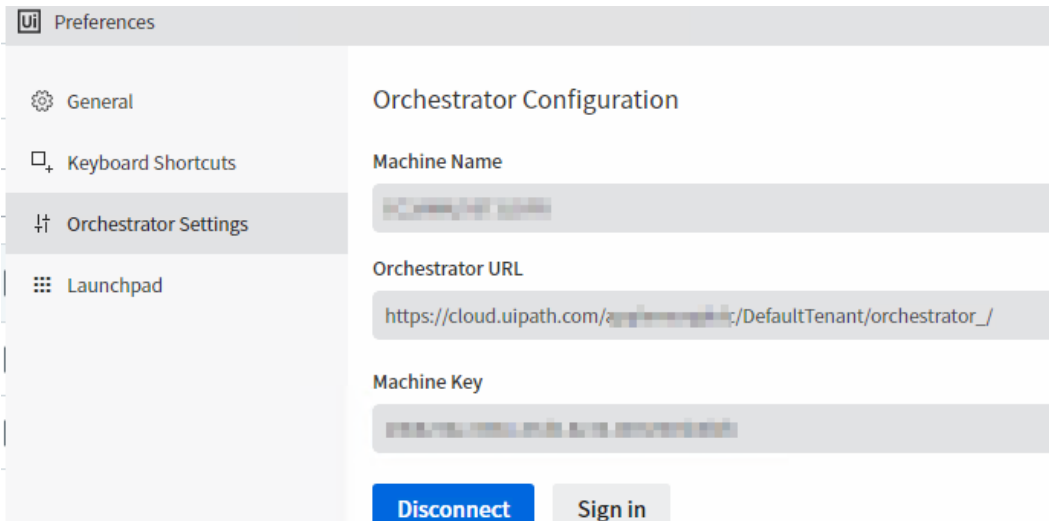


Figure B.11

6. Open UiPath studio and sign in to the cloud account to activate the license.

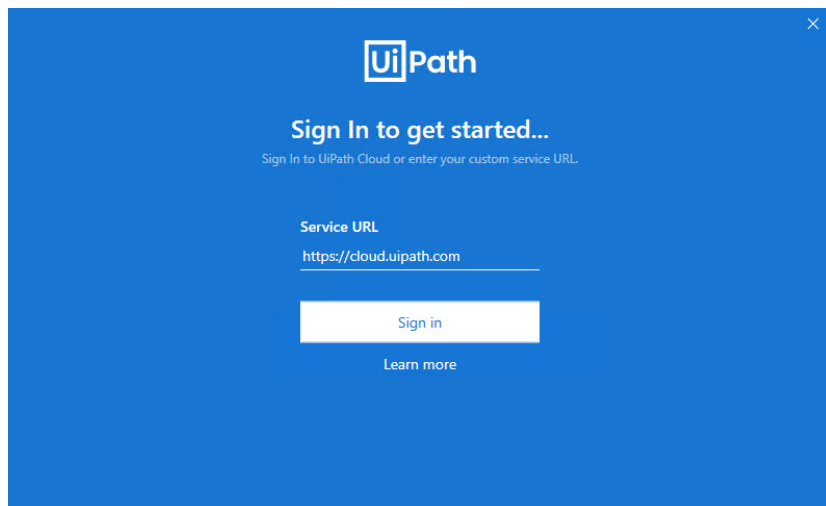


Figure B.12

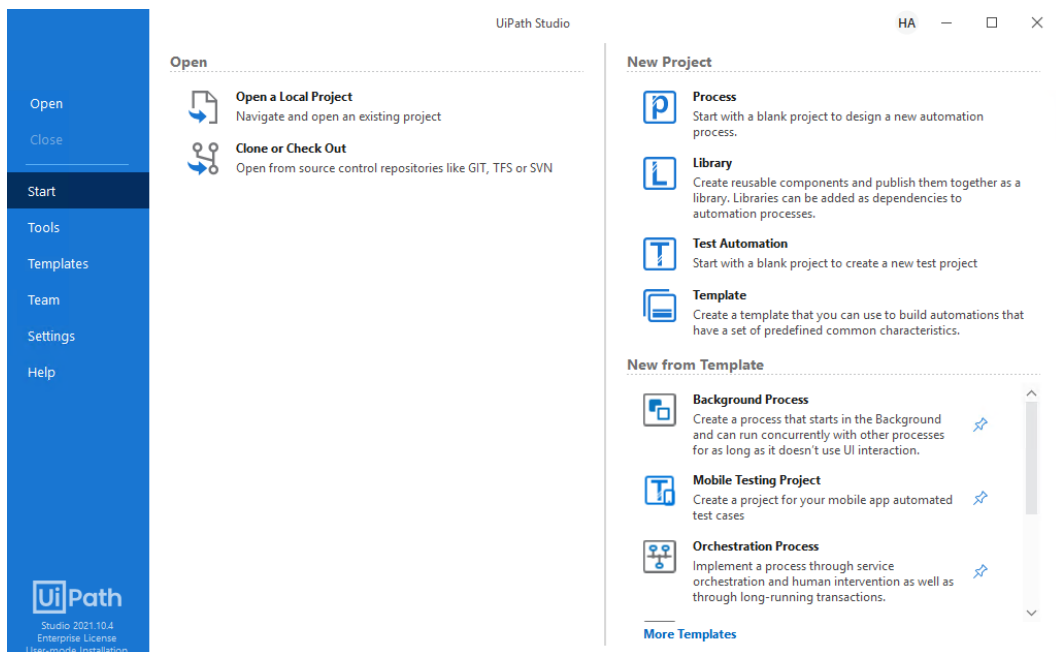


Figure B.13

7. Then try to create a new process with a simple command and publish the package to verify the connectivity.

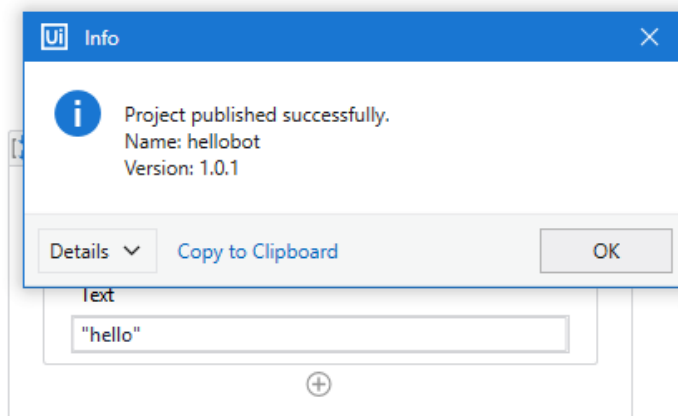


Figure B.14

8. Run the process from assistance to verify the robot's readiness.

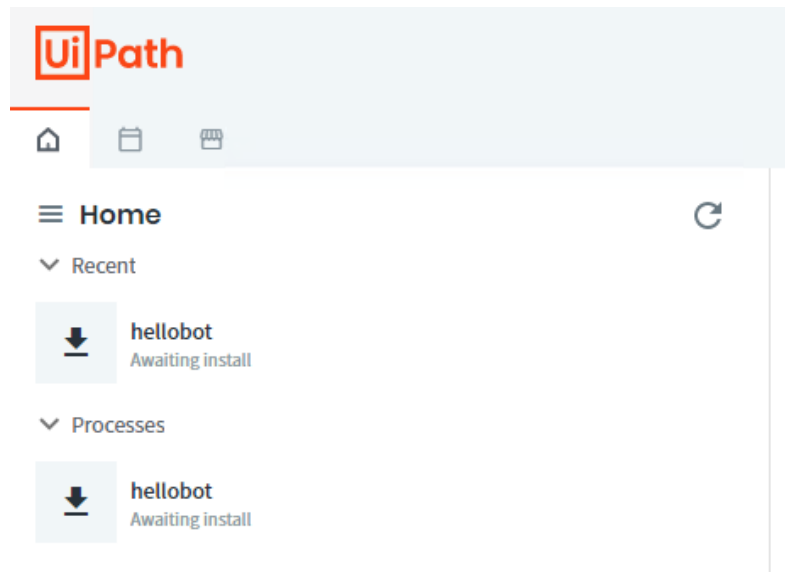


Figure B.15

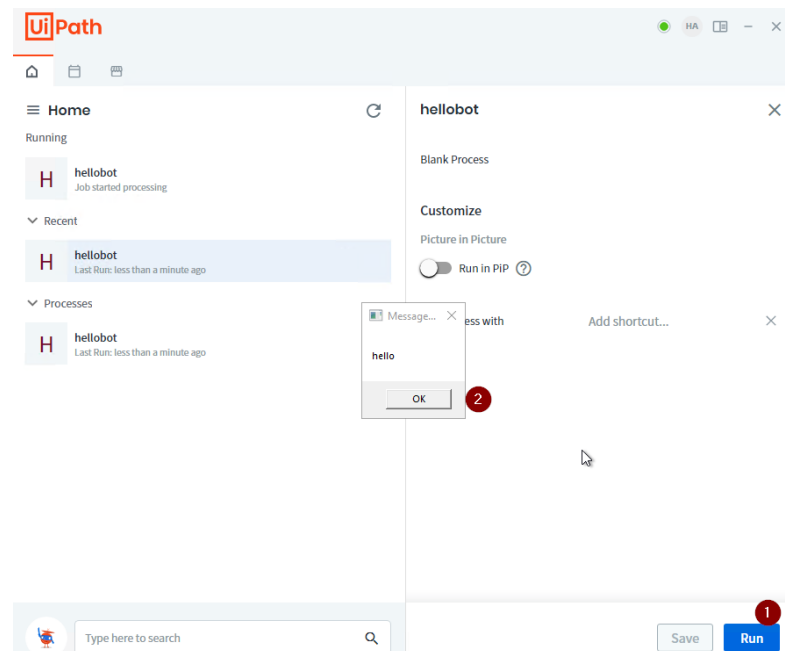


Figure B.16



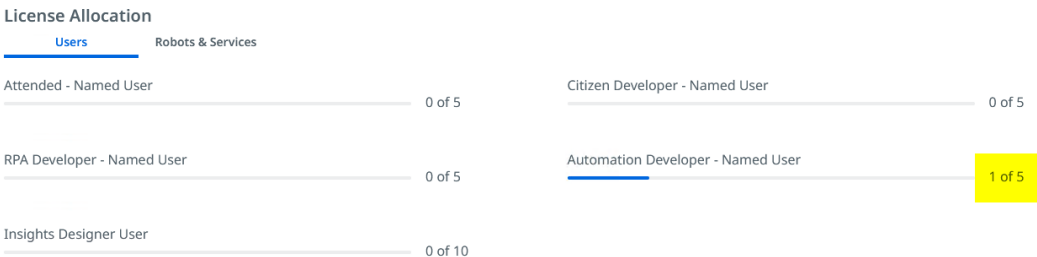


Figure B.17

**Note**

You will find that the available Automation Developer license count is reduced by 1.

# Setup unattended robot

Let's try to set up Unattended bots and schedule jobs to run on that. We will configure bots on separate Virtual machines.

1. Setup another EC2 instance with Windows Server 2019 type and login to the Admin account.
2. Once you are in the Admin login, add a new Robot user which can be used as 'unattended bots' e.g. Robot2 to the Administrator user group.

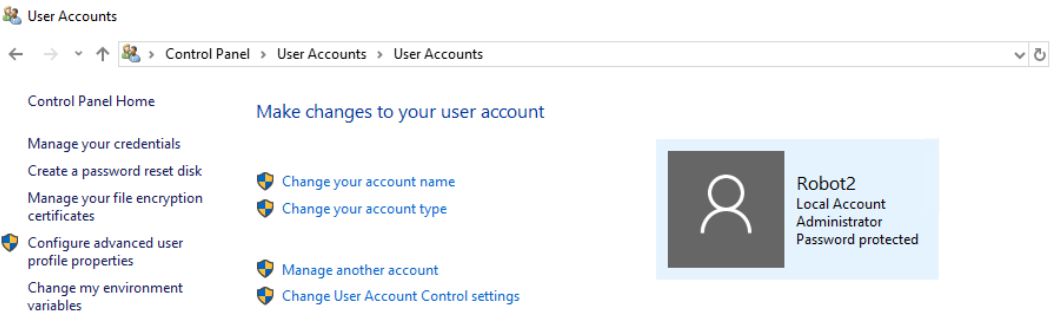


Figure B.18

3. Try to remote to the **Robot 2** account on the EC2 virtual instance.

- Now let's try to login into the already set up Enterprise Cloud Orchestrator instance. We can ideally configure in any machine, but we do it after logging into this instance because we need the installer to install the UiPath Assistant software here.

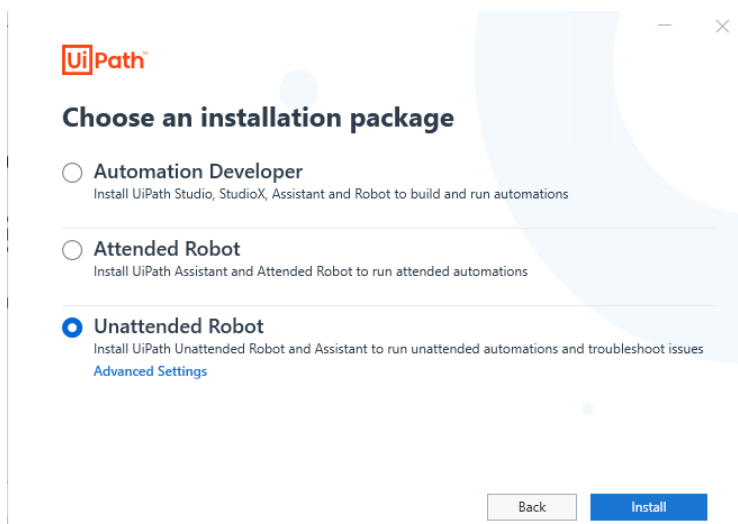


Figure B.19

- Once the unattended robot software setup is complete, you can see the UiPath assistant in the startup menu.
- Before we connect the robot to Orchestrator, let's create a new user for the Robot account.
- Login to cloud Orchestrator and go to **Admin | Accounts & Group**. You will find the default user you used to register added under users.

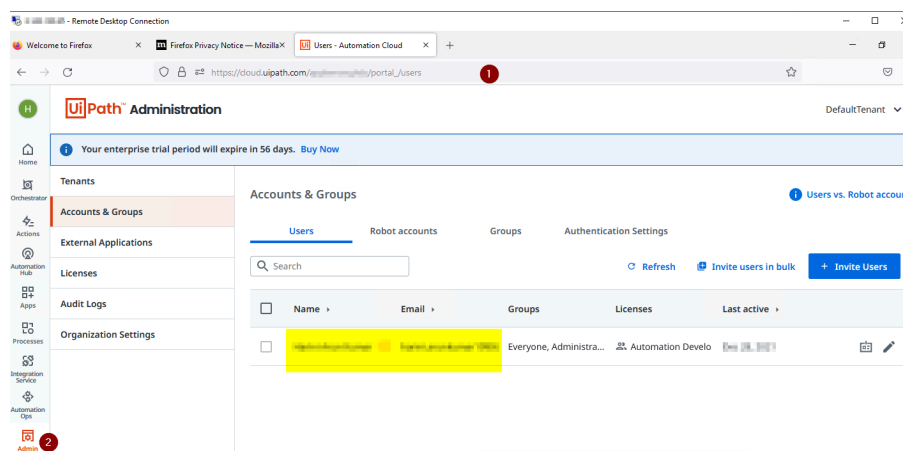


Figure B.20

8. Now, let's add a new Robot account:

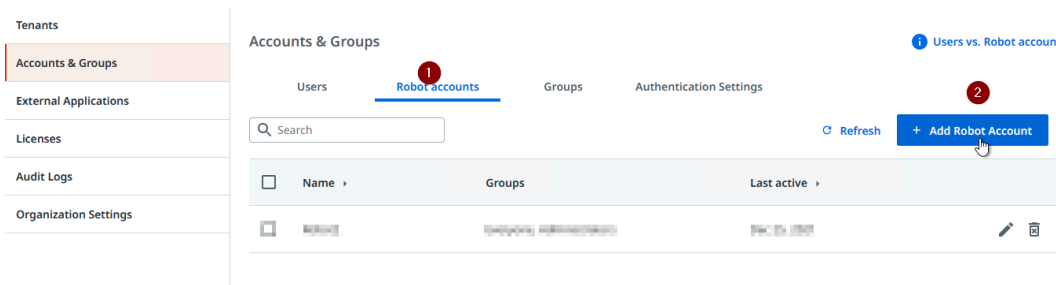


Figure B.21

### Add Robot Account



Robot Service Account is a dedicated identity to be used for unattended processes.

Name \*

Robot1

1

Group Membership ?

☒ Everyone

☐ Automation Users

☒ Administrators

2

☐ Automation Developers

Figure B.22

The robot account was added successfully!

**Note**

Automation User is the minimum rights that can be provided.

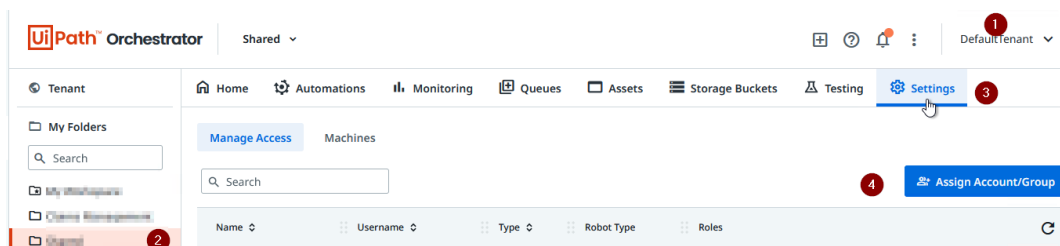


Figure B.23

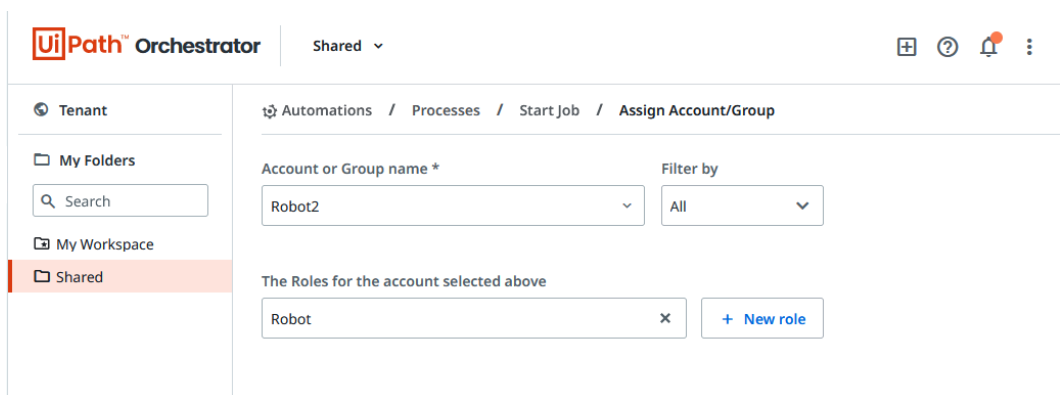


Figure B.24

**Note**

In order to use the unattended robot account, we need to configure unattended runtimes to this bot.

Manage Access

Machines

Q Search

Assign Account/Group

Name	Username	Type	Robot Type	Roles	
Administrators	administrators	Local group		Administrators (local)	
Automation Users	automation users	Local group	Assigned	Automation Users	
Automation Developers	automation developers	Local group	Assigned	Automation Users, Robot Administrators	
Robot Administrators	robot administrators	Local user	Assigned, Unattended	Robot Administrators	
Robot1	robot1	Robot account	Unattended	Robot	

1 - 6 / 6

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Edit

Unassign

Figure B.25

Manage Access / Assign roles / Edit: Robot1

1 General details

2 Robot setup

3 Robot Settings  
Optional

Account & Roles

Roles

Robot

+ New role

Cancel

Back

Next

Update

Figure B.26

9. Provide the Admin robot account user credentials which we added to the AWS EC2 robot machine.

General details — 2 Robot setup — 3 Robot Settings Optional

**Unattended Robot**

Enabled ⓘ

**Settings**

☒ Machine login credentials ⓘ 1

Domain\Username \*

MachineName\Robot1 2

Credential Store \*

Orchestrator Database

Password

..... 3

Cancel Back Next Update

Figure B.27

**Logging settings**

Logging level

Verbose

Trace

Information

Warning

Error

Critical

Off

Allow Debug

Login Timeout

Resolution settings

Figure B.28

**Note:**

There are different levels of logging. Please refer here for more details: <https://docs.uipath.com/robot/docs/logging-levels>.

The screenshot shows the 'Robot setup' step in a three-step process. The 'Logging settings' section includes a 'Logging Level' dropdown set to 'Information', an 'Allow Development Logging' toggle set to 'Yes', and a 'Login To Console' dropdown set to 'No'.

General details — Robot setup — 3 Robot Settings Optional

**Logging settings**

Logging Level  
Information

Allow Development Logging  
☒ Yes ☐ No

Login To Console  
No

Figure B.29

**Note**

When **Login to Console** is set to **No**, the user account will not be logged off when the automation runs, and we can view the script in action.

The screenshot shows the 'Resolution settings' section with three sliders: 'Resolution Width' set to 1920, 'Resolution Height' set to 1080, and 'Resolution Depth' set to 32. Below this is the 'Other settings' section with two radio buttons: 'Font Smoothing' set to 'Yes' and 'Auto Download Processes' set to 'Yes'.

**Resolution settings**

Resolution Width \*  
1920

Resolution Height \*  
1080

Resolution Depth \*  
32

**Other settings**

Font Smoothing  
☒ Yes ☐ No

Auto Download Processes  
☒ Yes ☐ No

Figure B.30

**Note**

It is a best practice to provide resolution width, height, and depth.

10. Once these setups are done, we need to add this Robot machine to Orchestrator too.

11. Add a machine in the Orchestrator:

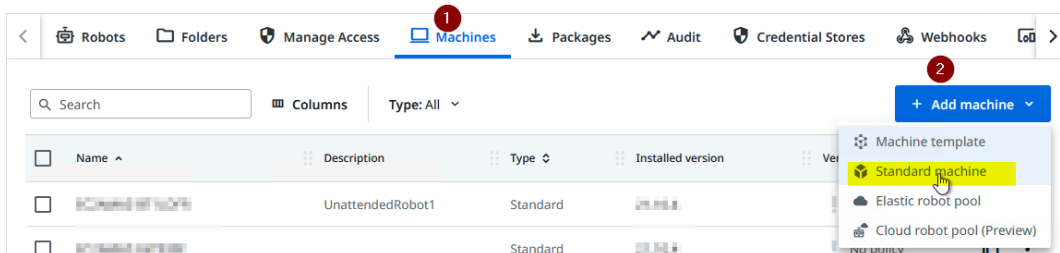


Figure B.31

But this time, we need to assign runtime licenses.

**General details**

Machine key

Name \*

Description

Client binaries (Robot, Studio, Assistant etc) auto-update policy \*

**Runtime license (execution slots)**

Production (Unattended) \*

NonProduction \*

Testing \*

The auto-update policy applies to client binaries (Robot, Assistant, Studio, etc) versions. Version downgrades are not supported. [Learn more](#) about the update process or see [release notes](#).

Figure B.32

12. Use the machine key and connect the unattended robot to Orchestrator as we did before.

13. Now robots appear in the robot tray



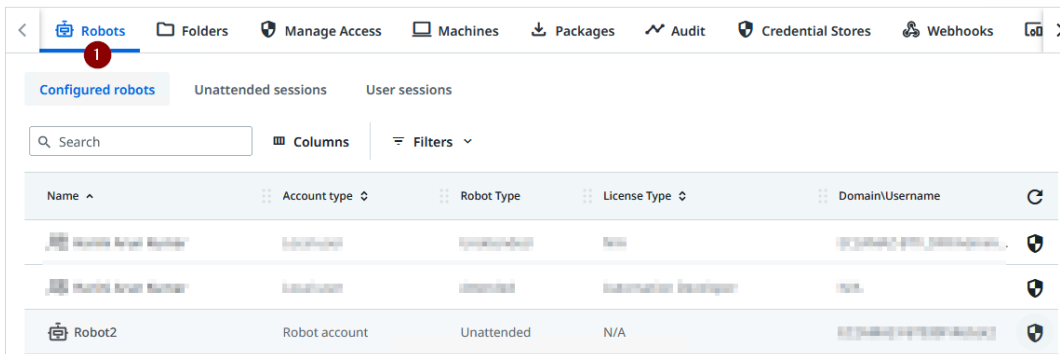


Figure B.33

We can try to run the test package we uploaded from Studio on this unattended robot. We need to create a new process with the package which was deployed from Studio.

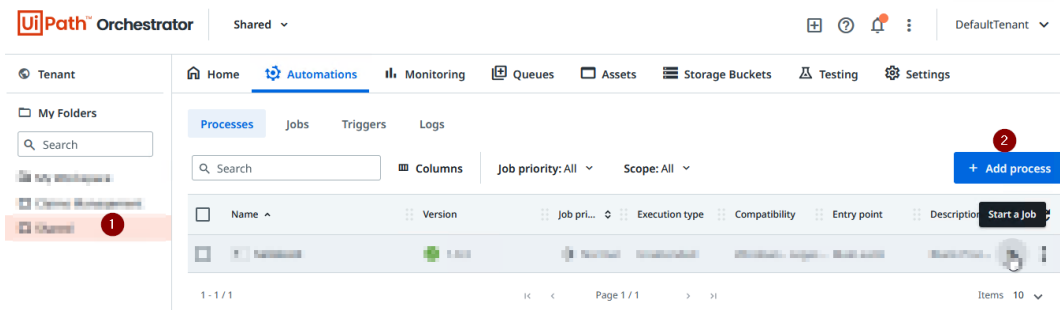


Figure B.34

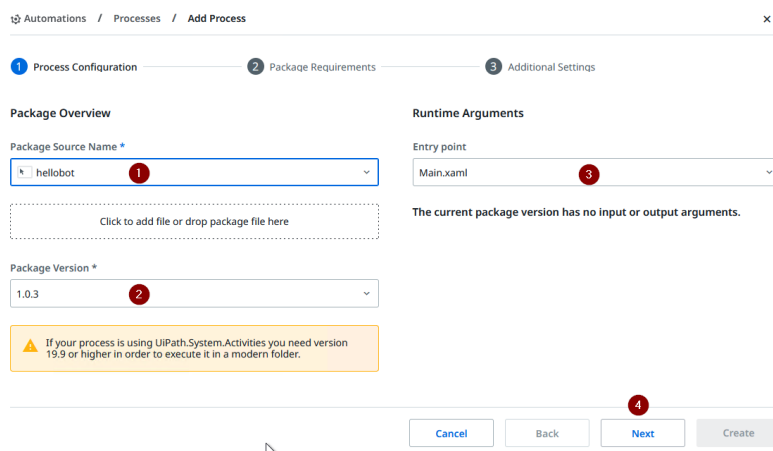


Figure B.35

Automations / Processes / Add Process

Process Configuration    Package Requirements    **Additional Settings**

**Process Details**

Display name

If left empty, hellobot will be used.

Description

Blank Process

Describe the process in a few words.

**Priority & Running Options**

High  
Normal  
Low

Process can't be stopped from UiPath Assistant  
Prevent the process from being stopped or paused using the Assistant.

Automatically Start Process  
Launch the process automatically when the Robot agent starts. If enabled together with Process can't be stopped from UiPath Assistant, the process launches when Assistant is first started on the user machine.

Enable Recording  
Troubleshoot failed jobs by generating and retrieving screenshot artifacts for failed executions. Available only for unattended Robots.

Cancel    Back    Next    **Create**

Figure B.36

**Note**

Priority of the jobs, recording and other options can be enabled from this dialog.

14. Now we can try to run the process

Processes    Jobs    Triggers    Logs

Search

Columns    Job priority: All    Scope: All    + Add process

Name	Version	Job pri...	Execution type	Compatibility	Entry point	Description
hellobot2		Normal	Unattended	Windows - Legac...	Main.xaml	Blank Proc...

Automations / Processes / Start Job

Process Name

hellobot2

Job priority \*

Normal

Runtime license \*

Production (Unattended)

2 Runtimes Available, 2 Connected

**Execution Target**    Arguments

Allocate dynamically

Execute the process 1 times

Schedule ending of job execution

Account

Robot2

Machine

Keep Account/Machine allocation on job resumption

Cancel    **Start**

Figure B.37

15. You can check the job status from **Jobs**

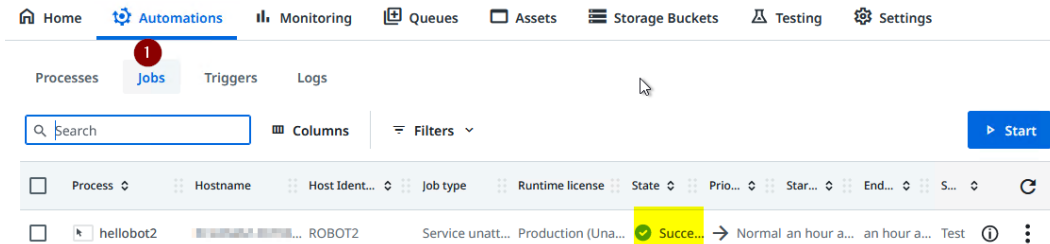


Figure B.38

You can also try to use **Triggers** to run these jobs on a particular schedule.

## Schedule the job runs on un-attended Robot

You can also create a trigger for the process to run at scheduled intervals. To do this:

1. Click on **Triggers** on the automation panel
2. Click on **Add on a new Trigger** and choose **Time** on the next screen
3. Provide a **Name** for the Trigger
4. Choose your Timezone
5. Choose the **Process** you like to schedule
6. Choose your unattended Robot we just added
7. Select the Schedule you like the process to run (For e.g. You can schedule as **Daily** and add time)
8. Finally, click on **Add** to schedule the process

Once the trigger is enabled, jobs will be triggered, and the runs can be monitored from Orchestrator.

