

## Table of Contents

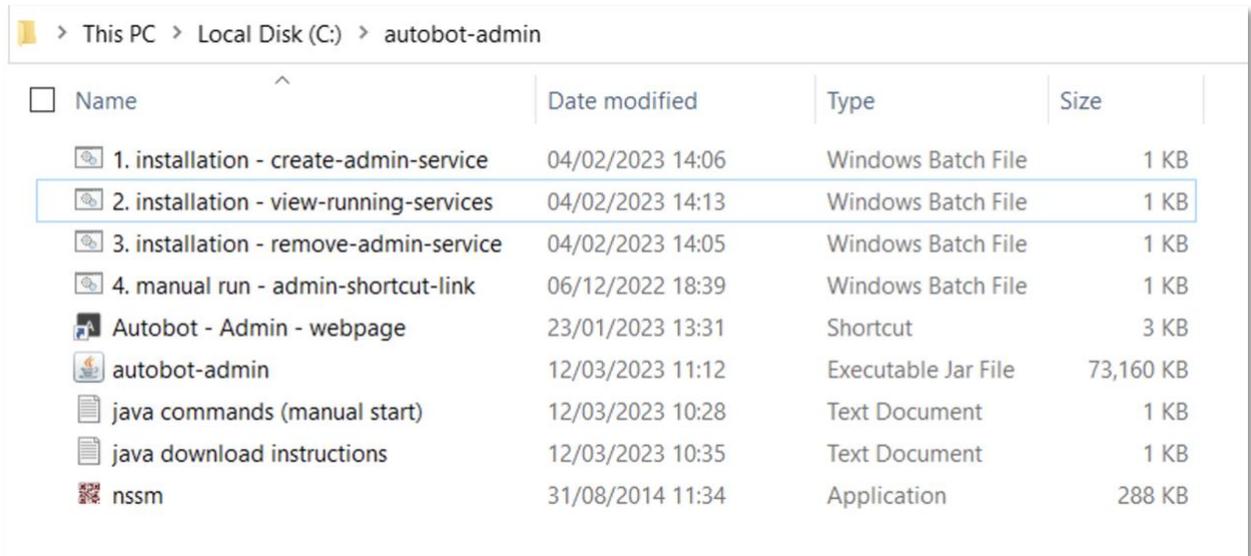
<b>Requirements .....</b>	<b>2</b>
<b>Installation on Windows (Autobot Admin) .....</b>	<b>3</b>
Install Admin Service.....	3
Installation issues .....	4
Remove or uninstall .....	4
<b>Installation on Linux and MacOS (Autobot Admin) .....</b>	<b>5</b>
<b>Create Autobot Admin web shortcut .....</b>	<b>6</b>
<b>Installation on Windows (Autobot Candidate).....</b>	<b>7</b>
Install Candidate Service .....	7
<b>Installation on Linux and MacOS (Autobot Candidate).....</b>	<b>9</b>
<b>Create Autobot Candidate web shortcut.....</b>	<b>10</b>
<b>Running the Application .....</b>	<b>11</b>
Register Center (Autobot Admin) .....	11
Create New Exam (Autobot Admin).....	12
Before Starting Exam (Autobot Admin).....	13
Connect to Admin (Autobot Candidate).....	14
Starting and Monitoring Exam (Autobot Admin) .....	16
View Exam Progress (Autobot Candidate).....	16
Completed Exam (Autobot Admin) .....	17
Uploading Reports (Exam report, Center Report, Computer Report).....	18

## Requirements

- This application requires Java with JDK version 14 and above. Java can be downloaded from [https://www.java.com/download/ie\\_manual.jsp](https://www.java.com/download/ie_manual.jsp) -Or you can use the version provided with this installation package.
- This application requires the latest version of Google Chrome to be installed. Visit [https://www.google.com/intl/en\\_ca/chrome/](https://www.google.com/intl/en_ca/chrome/) to download Chrome.

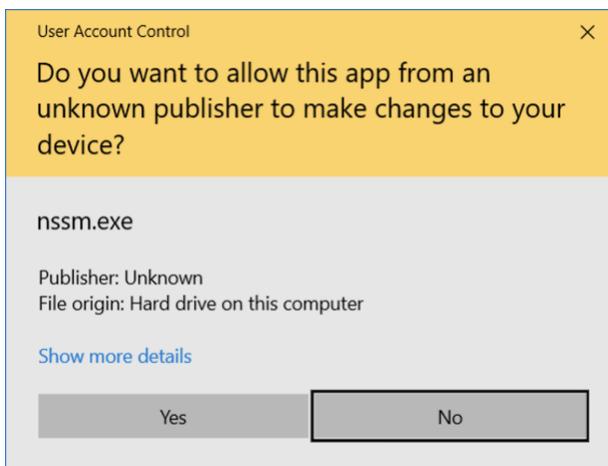
## Installation on Windows (Autobot Admin)

Extract and copy the autobot-admin folder to the C: drive as seen below:

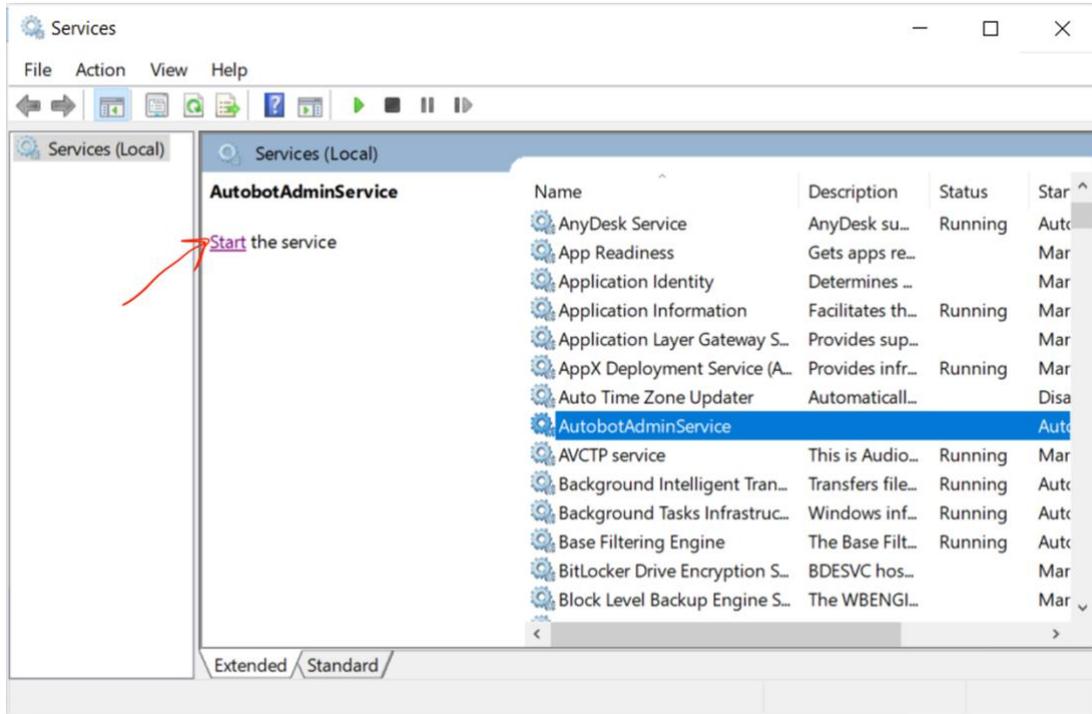


### Install Admin Service

- Click on *1. installation - create-admin-service* file. There may be a command window displayed briefly, please ignore.
- If the following screen should pop up, select “Yes”



- Click on *2. installation - view-running-services*. The screen below will be displayed.
- Select the **AutobotAdminService** and click the start link.



## Installation issues

In case an error is encountered while installing admin or candidate service:

- If you encounter an issue with installing the service ensure the folder name is autoboot-admin and it is directly copied to the C: drive such that the folder path is C:\autobot-admin
- If you encounter an issue with the NSSM file, it may be due to the architecture of the Windows machine. To resolve, copy the NSSM file relevant to the Win architecture i.e. Win32 or Win64 and paste in the respective autobot folders.
- If all fails, the application can be manually started by clicking the 4. manual run - admin-shortcut-link or running the following java command in the command prompt: `java -jar autobot-admin.jar`

## Remove or uninstall

The remove or restart the installation process, click on 2. *installation - view-running-services* to view services, make sure the *AutobotAdminService* is not running (if it is running stop it), and click on 3. *installation - remove-admin-service*. Say yes to all provided prompts.

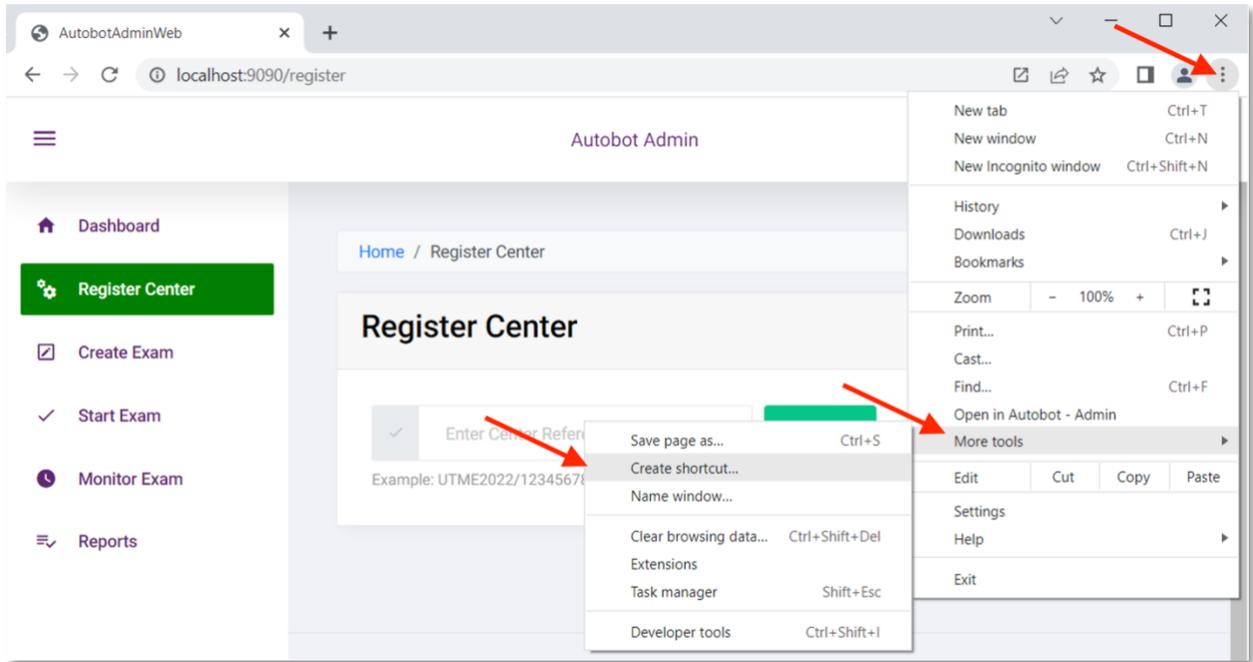
## Installation on Linux and MacOS (Autobot Admin)

To run the application on a Linux machine, open a terminal and navigate to the autobot-admin folder. Use the following command to run the application: ***java -jar autobot-admin.jar***

## Create Autobot Admin web shortcut

Once the Autobot Admin service is installed successfully and running, open Google Chrome and visit the following URL: <http://localhost:9090> – once the page is loaded you can save as a shortcut on the system.

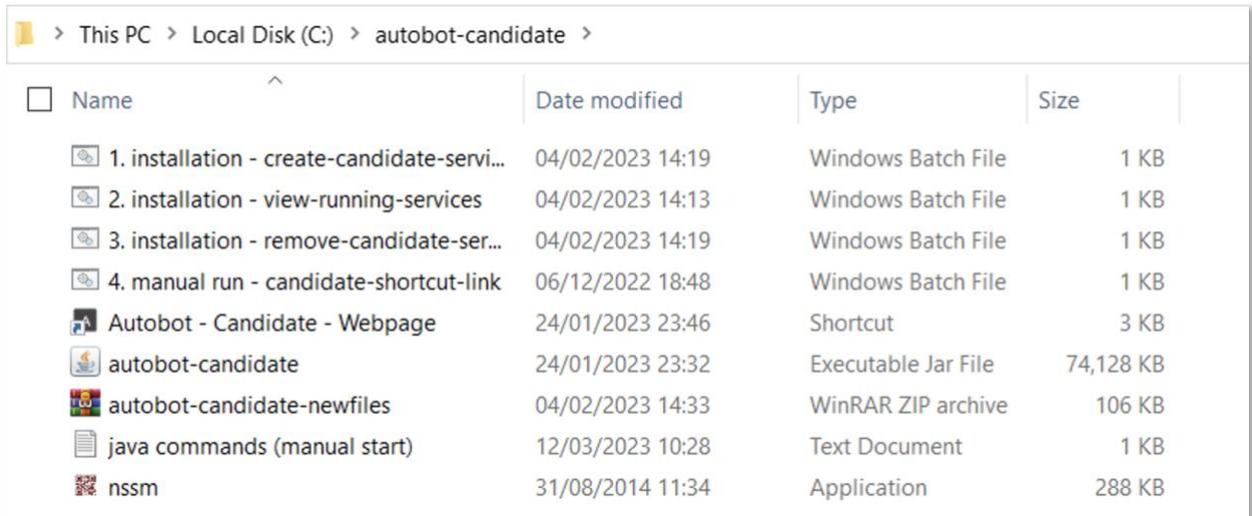
To save as Shortcut, click on the menu button, select More tools then select Create shortcut:



Save the shortcut icon on the Desktop or anywhere preferred. This shortcut can be used next time for faster launch.

## Installation on Windows (Autobot Candidate)

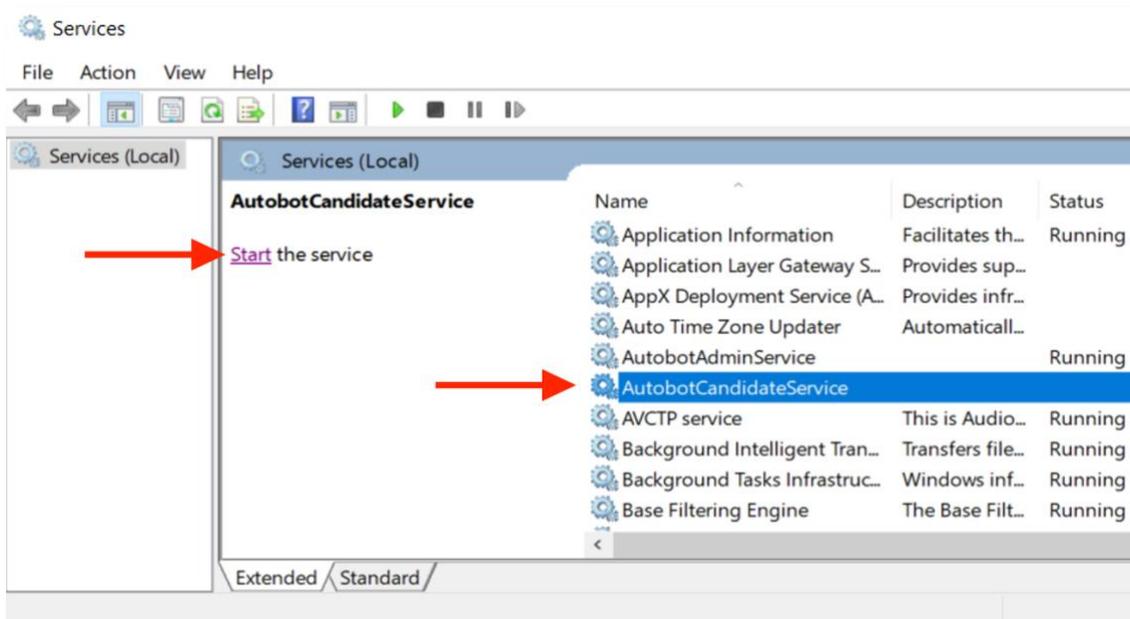
Extract and copy the *autobot-candidate* folder into the C: drive on all candidate machines as seen below:



Name	Date modified	Type	Size
1. installation - create-candidate-servi...	04/02/2023 14:19	Windows Batch File	1 KB
2. installation - view-running-services	04/02/2023 14:13	Windows Batch File	1 KB
3. installation - remove-candidate-ser...	04/02/2023 14:19	Windows Batch File	1 KB
4. manual run - candidate-shortcut-link	06/12/2022 18:48	Windows Batch File	1 KB
Autobot - Candidate - Webpage	24/01/2023 23:46	Shortcut	3 KB
autobot-candidate	24/01/2023 23:32	Executable Jar File	74,128 KB
autobot-candidate-newfiles	04/02/2023 14:33	WinRAR ZIP archive	106 KB
java commands (manual start)	12/03/2023 10:28	Text Document	1 KB
nssm	31/08/2014 11:34	Application	288 KB

### Install Candidate Service

- Click the *1. installation - create-candidate-service* file to install the service on the machine.
- Click on *2. installation - view-running-services* to view the Windows service.
- Select the **AutobotCandidateService** and click on the start link:



If the service fails to start check to ensure the folder is saved directly on C: drive as such *C:\autobot-candidate*, also confirm NSSM version used is matching the Windows architecture of the system i.e. Win32 or Win64.

If all the above fails the application can be manually started by clicking the *4. manual run - candidate-shortcut-link* file or running the java command: `java -jar autobot-candidate.jar`

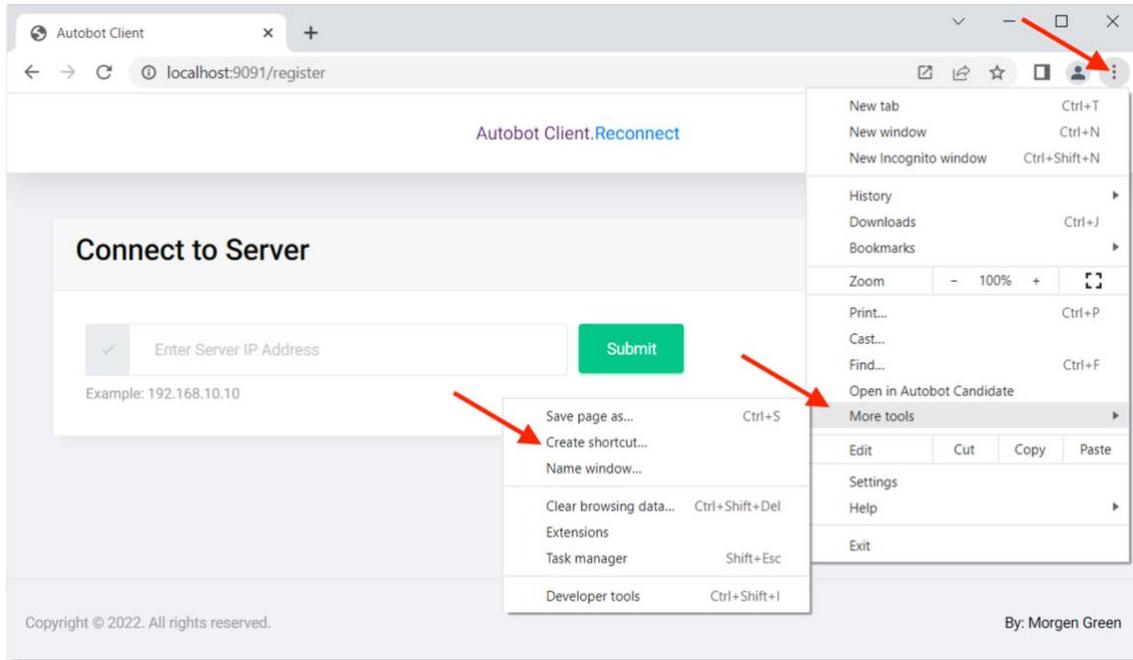
## Installation on Linux and MacOS (Autobot Candidate)

The same process for Admin can be applied when running the application on candidate machines; open a terminal and navigate to the autobot-candidate folder. Use the following command to run the application: ***java -jar autobot-candidate.jar***

## Create Autobot Candidate web shortcut

Once the Autobot Candidate service is installed successfully and running, open Google Chrome and visit the following URL: <http://localhost:9091> – once the page is loaded you can save as a shortcut on the candidate system.

To save as Shortcut, click on the menu button, select More tools then select Create shortcut:



Save the shortcut icon on the Desktop and anywhere preferred. This shortcut can be used next time for faster launch.

## Running the Application

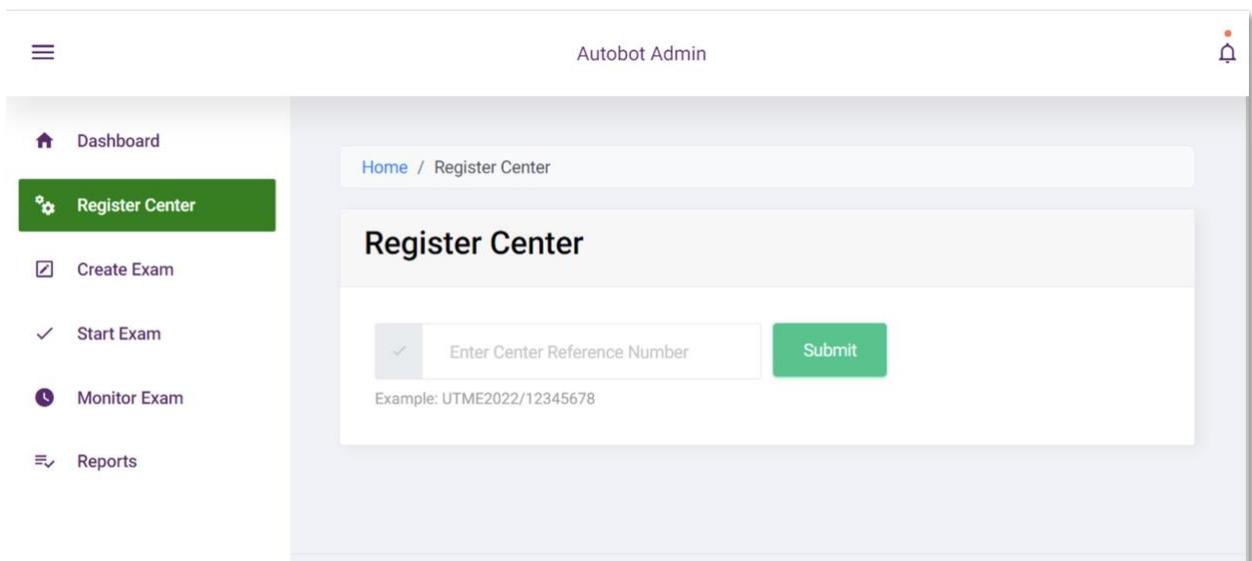
The general steps are listed below. Visit each section for a detailed guide:

1. **Register Center:** Use center reference number to register center.
2. **Create Exam:** Create an Exam and wait for candidate machines to connect (if not already connected)
3. **Connect Candidates Systems:** Open Candidate machines, connect to Admin using Admin IP address, and proceed to exam.
4. **Start Exam:** Once all candidates are connected, start exam.
5. **Monitor Exam:** View candidates and admin status update as exam progresses.
6. **Upload Reports:** Once exam is completed, upload exam report, center report and computer reports

### Register Center (Autobot Admin)

To use the application, the Center must be registered. Select the “Register Center” link on the menu item on the left.

On the screen displayed enter your Center reference number and click on submit. A message will be displayed indicating error or success. If successful the system will display your Center name and address and default capacity:



The screenshot displays the 'Autobot Admin' web interface. On the left is a navigation menu with items: Dashboard, Register Center (highlighted in green), Create Exam, Start Exam, Monitor Exam, and Reports. The main content area shows the 'Register Center' page with a breadcrumb 'Home / Register Center'. Below the title is a form with a text input field labeled 'Enter Center Reference Number' and a green 'Submit' button. An example reference number 'UTME2022/12345678' is provided below the input field.

## Create New Exam (Autobot Admin)

- Once the center is registered, a new exam can be created. Use the Create Exam link on the left menu.
- Select the capacity, the default is 250
- Select the duration, options have been added for flexibility however ensure final reports to be uploaded are run for the duration of a standard exam.
- Click the Create Exam button

Autobot Admin

Home / Create New Exam

### Create New Exam

Exam Name	Exam E2
Sessions	1
Capacity	250 candidate(s)
Exam Date	Sun Mar 12 2023 12:10:14
Duration	120 minutes
Number of Questions	180 questions

Create Exam

## Before Starting Exam (Autobot Admin)

Before you can start the exam, the capacity or number of candidates specified must have connected to the Admin system. The total number of candidates connected will be automatically updated as more candidates connect. Once the Start Exam button is enabled, the exam can be started:

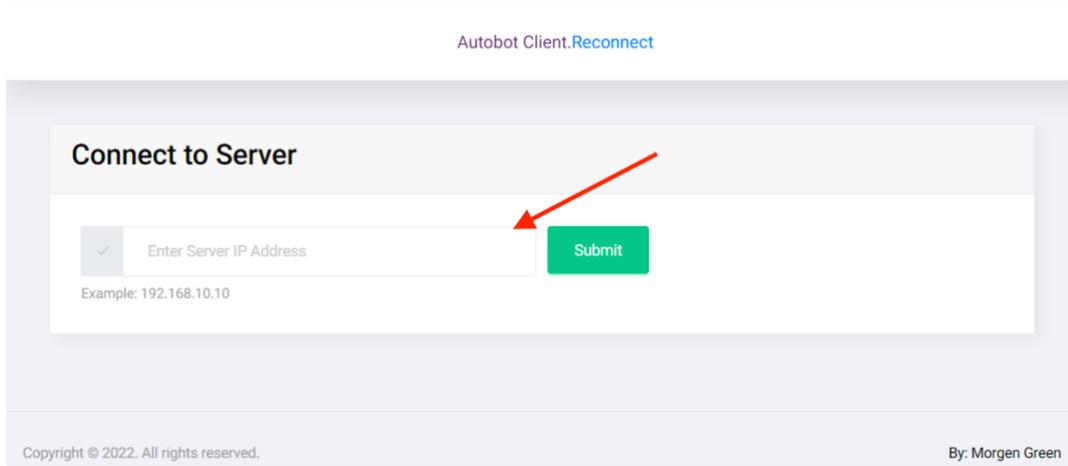
The screenshot displays the 'Autobot Admin' interface. On the left is a navigation menu with options: Dashboard, Register Center, Create Exam, Start Exam (highlighted in green), Monitor Exam, and Reports. The main content area shows the configuration for 'Start Exam Exam E3'. A table lists the following details:

Exam Name	Exam E3
Sessions	1
Capacity	5
Exam Date	12 Mar 2023 16:37:09 GMT
Duration	10 minutes
Number of Questions	180 questions
Number of Connected Computers	0

Below the table is a disabled 'Start Exam' button. A red arrow points to the '0' in the 'Number of Connected Computers' row, and another red arrow points to the 'Start Exam' button. A green notification banner at the top right contains a checkmark and the text: 'Done Exam Exam E3 created successfully!'. At the bottom of the configuration area, a note states: 'The Start Exam button will be enabled once all clients in capacity have been connected.'

## Connect to Admin (Autobot Candidate)

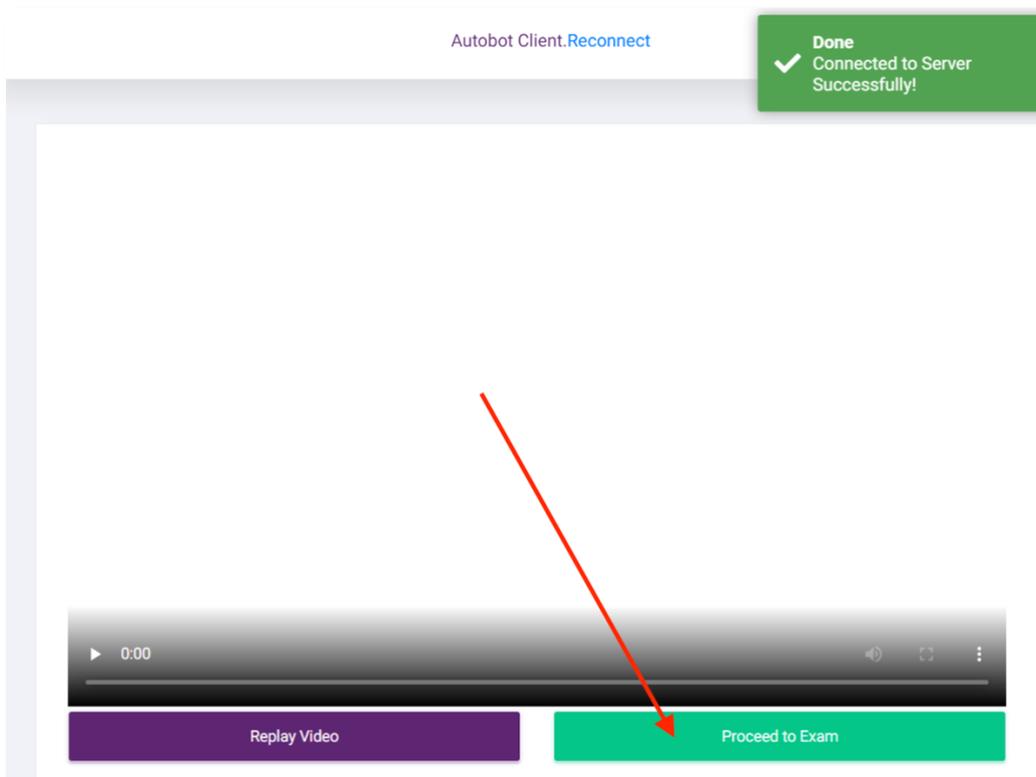
On the Candidate machine, the first page displayed prompts for the IP address of the Admin.  
**Ensure you have switched to LAN connection before proceeding.**  
Enter the IP address of the Admin machine.



The screenshot shows the 'Autobot Client.Reconnect' application window. The main content area is titled 'Connect to Server'. It features a text input field with a checkmark icon on the left, containing the placeholder text 'Enter Server IP Address'. Below the input field, there is an example IP address: 'Example: 192.168.10.10'. To the right of the input field is a green 'Submit' button. A red arrow points from the top right towards the input field. At the bottom of the window, there is a footer with 'Copyright © 2022. All rights reserved.' on the left and 'By: Morgen Green' on the right.

Once connected, click on the “Proceed to Exam” button.

**Important Note:** The “Proceed to Exam” button must be clicked after successfully connecting or reconnecting to the Admin:



The screenshot shows the 'Autobot Client.Reconnect' application window after a successful connection. A green notification box in the top right corner displays a checkmark and the text 'Done Connected to Server Successfully!'. The main content area is mostly blank. At the bottom, there is a video player interface with a play button, a progress bar showing '0:00', and volume and full-screen icons. Below the video player are two buttons: a purple 'Replay Video' button on the left and a green 'Proceed to Exam' button on the right. A red arrow points from the top center towards the 'Proceed to Exam' button.

The next page displayed is the standby screen, where the candidate waits until the exam is started on the Admin system. No action is required on this page.

The screenshot displays the 'Autobot Client.Reconnect' interface. On the left, a sidebar lists system details under 'System', 'Operating System', and 'CPU' sections. The main area features the 'CENTER AUTOBOT' logo, a registration number, a candidate login button, and a status indicator.

System
⇒ <b>Model:</b> Parallels Virtual Platform
⇒ <b>Serial No:</b> Parallels-CFB6

Operating System
⇒ <b>Distribution:</b> 10.0
⇒ <b>Architecture:</b> amd64
⇒ <b>Hostname:</b> Windows 10

CPU
-----

**CENTER AUTOBOT**  
Registration Number  
7590574

**Candidate Login**  
No exam in progress

## Starting and Monitoring Exam (Autobot Admin)

Once all candidates are connected to the Admin, on the Start Exam interface click the Start Exam button. The Monitor Exam page is displayed next.

On this page the exam details, status, connected candidate details, etc are displayed.

The screenshot shows the 'Monitor Exam' page in the Autobot Admin interface. The page is titled 'Exam in Progress' and displays several key metrics:

- Exam Duration:** 10 minutes (00:08:21). Start time: 12:59:44, End time: 13:09:44.
- Number of Questions:** 180 questions.
- Total PCs started:** 5 PCs have joined exam.
- Total Submitted:** 0 PCs have submitted.
- Network Failures:** 0 PCs disconnected.
- General Network Failure:** 0 Failed connections.
- Permanent Network Loss:** 0 PCs permanently disconnected.
- Not Connected:** 0 PCs have not connected to exam.

Below these metrics is a table of candidate details:

Reg. No	IP Address	Candidate	Response Count	Start Time	End Time	Minutes left	Start Status	End Status	Connected
7590484	198.132.0.1	Candidate 416	29	12:59:44	13:09:44	9	STARTED	NOT_ENDED	CONNECTED
7590481	198.132.0.2	Candidate 419	29	12:59:44	13:09:44	9	STARTED	NOT_ENDED	CONNECTED
7590482	198.132.0.3	Candidate 418	29	12:59:44	13:09:44	9	STARTED	NOT_ENDED	CONNECTED
7590483	198.132.0.4	Candidate 417	29	12:59:44	13:09:44	9	STARTED	NOT_ENDED	CONNECTED
7590480	198.132.0.5	Candidate 420	29	12:59:44	13:09:44	9	STARTED	NOT_ENDED	CONNECTED

## View Exam Progress (Autobot Candidate)

On the candidate page, the screen below is automatically displayed once the Admin has started the exam. It shows current status including number of submissions and resource usage:

The screenshot shows the 'Autobot Candidate Exam' page. The page displays the following information:

- Autobot Candidate Exam**
- Status:** Connected
- Name:** Candidate 416
- Registration Number:** 7590484
- Subject:** English
- Time:** 00:02:46
- Progress:** 72% (Attempted 129 of 180 questions)
- System Info:**
  - CPU Usage: 0 %
  - RAM Usage: 24.0 GiB
  - IP Address: 127.0.0.1
  - Data Sent: 314.6 KIB
  - Data Received: 1.8 MIB

## Completed Exam (Autobot Admin)

Once the exam time runs out the exam is ended automatically:

The screenshot displays the Autobot Admin interface for a completed exam. The left sidebar contains navigation options: Dashboard, Register Center, Create Exam, Start Exam, Monitor Exam (highlighted in green), and Reports. The main content area shows a breadcrumb trail: Home / Monitor Exam / English. A yellow banner at the top indicates "Exam Completed". Below this, eight summary cards provide key statistics:

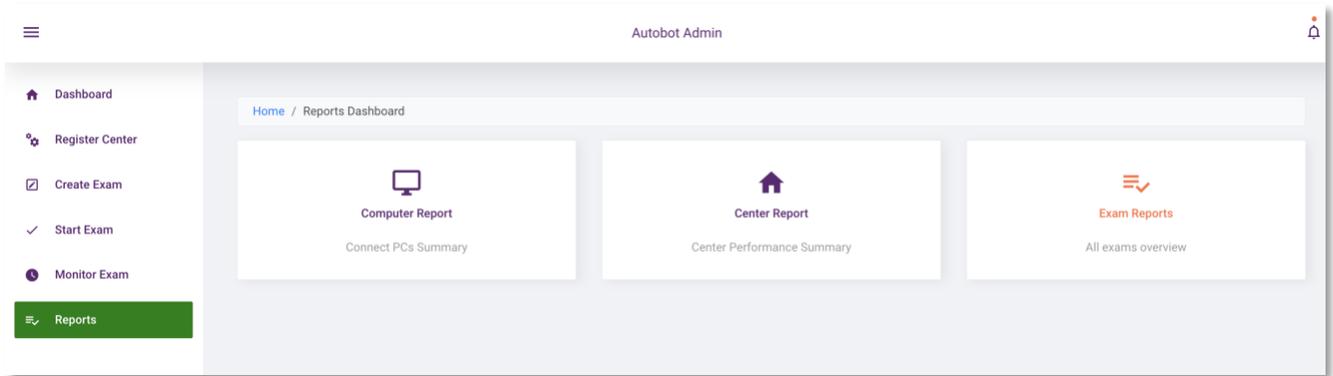
- Exam Duration:** 10 minutes (Start time: 12:59:44, End time: 13:09:44)
- Number of Questions:** 180 questions
- Total PCs started:** 5 PCs have joined exam
- Total Submitted:** 5 PCs have submitted
- Network Failures:** 0 PCs disconnected
- General Network Failure:** 0 Failed connections
- Permanent Network Loss:** 0 PCs permanently disconnected
- Not Connected:** 0 PCs have not connected to exam

At the bottom, a table lists individual candidates with their exam details:

Reg. No	IP Address	Candidate	Response Count	Start Time	End Time	Minutes left	Start Status	End Status	Connected
7590484	198.132.0.1	Candidate 416	180	12:59:44	13:09:44	1	STARTED	ENDED	CONNECTED
7590481	198.132.0.2	Candidate 419	180	12:59:44	13:09:44	1	STARTED	ENDED	CONNECTED
7590482	198.132.0.3	Candidate 418	180	12:59:44	13:09:44	1	STARTED	ENDED	CONNECTED
7590483	198.132.0.4	Candidate 417	180	12:59:44	13:09:44	1	STARTED	ENDED	CONNECTED
7590480	198.132.0.5	Candidate 420	180	12:59:44	13:09:44	1	STARTED	ENDED	CONNECTED

## Uploading Reports (Exam report, Center Report, Computer Report)

- Click on the Report link on the menu.
- There are 3 report options
- Exam Reports list all exams created, Center Reports provide a summary on the center and system profiles, while Computer Report provides detailed reports on the systems in the center.



### Exam Reports:

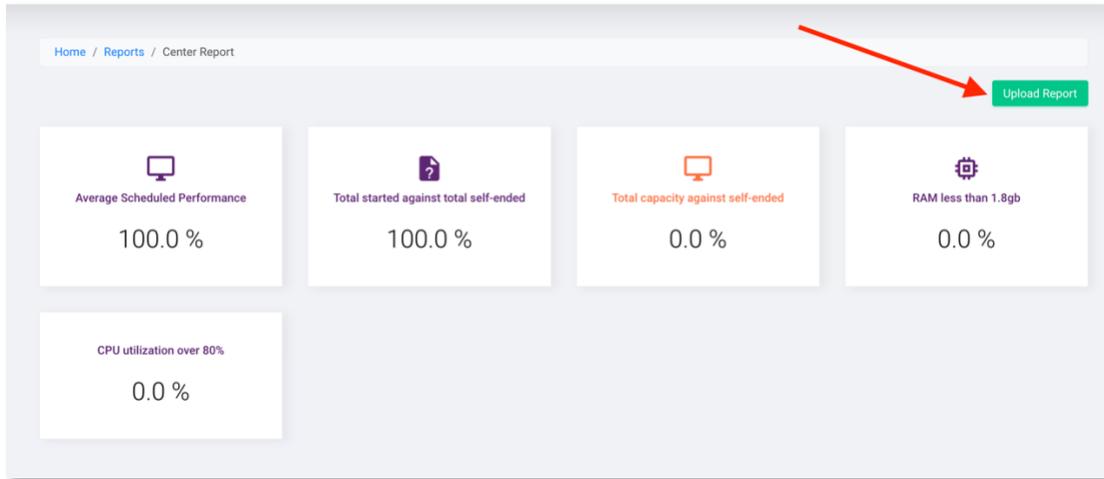
- This page lists all reports for completed exams.
- Exam reports that have not been uploaded will have a corresponding "" button. Ensure to upload recently completed Exams.

The screenshot shows the 'Home / Reports / Exam Report' page. It features a table with the following data:

Exam	Session	Start time	End Time	Duration (minutes)	Datetime	Status	Upload Status
Exam E1	0	10:37:56	10:47:56	10	2022-12-25	COMPLETED	Pending. <a href="#">Upload Now</a>
Exam E2	0	11:17:07	11:27:07	10	2022-12-25	COMPLETED	Pending. <a href="#">Upload Now</a>
Exam E3	1	12:26:34	12:36:34	10	2022-12-25	COMPLETED	Uploaded
Exam E4	1	12:45:53	12:55:53	10	2022-12-25	COMPLETED	Uploaded
Exam E5	1	13:05:49	13:15:49	10	2022-12-25	COMPLETED	Uploaded

## Center Report:

- Ensure to upload the Center Report.



## Computer Reports:

- Ensure to upload the Computer Report.

