

## How to Deploy HRM (Human Resource Management) Application Application in Enterprise Server?

For Windows 10 or 11 follow step 1.

Step 1. Download and install docker-desktop for Windows from <https://www.docker.com/products/docker-desktop>

During installation, make sure Enable Hyper-V feature is selected and click on OK to complete the installation process and restart your computer.

For Windows Server 2019 follow the instructions given in the link <https://www.virtualizationhowto.com/2020/12/install-docker-in-windows-server-2019/>  
For Windows 10 or 11, follow step 1.

Step 1. Download and install docker-desktop for Windows from <https://www.docker.com/products/docker-desktop>

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For Windows Server 2019 follow the instructions given in the link <https://www.virtualizationhowto.com/2020/12/install-docker-in-windows-server-2019/>

For Windows Server 2022 follow the instructions given in the link <https://www.virtualizationhowto.com/2022/09/install-docker-on-windows-server-2022/>

How to Install docker using power shell in Windows Server 2019 /2022?

Run the following commands in PowerShell to install docker in Windows Server 2019 /2022

Step 1.1:

```
Install-WindowsFeature -Name 'Containers'
```

Step 1.2:

```
Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Hyper-V -All -NoRestart  
Install-WindowsFeature RSAT-Hyper-V-Tools -IncludeAllSubFeature
```

Step 1.3:

```
Restart-Computer -force
```

Step 1.4:

```
Install-Module -Name DockerMsftProvider -Repository PSGallery -Force  
Select "Yes", if you see any popup.
```

Step 1.5:

```
Install-Package -Name docker -ProviderName DockerMsftProvider  
Select "Yes to All", if you see any popup.
```

Step 1.6: Restart-Computer -force

NOTE : Step 2 needs to be executed only in Windows 10 and 11

Step 2: After successful installation, go to Docker properties and click “Switch to Windows containers”.

Step 3: Setup the running environment for containerized applications.

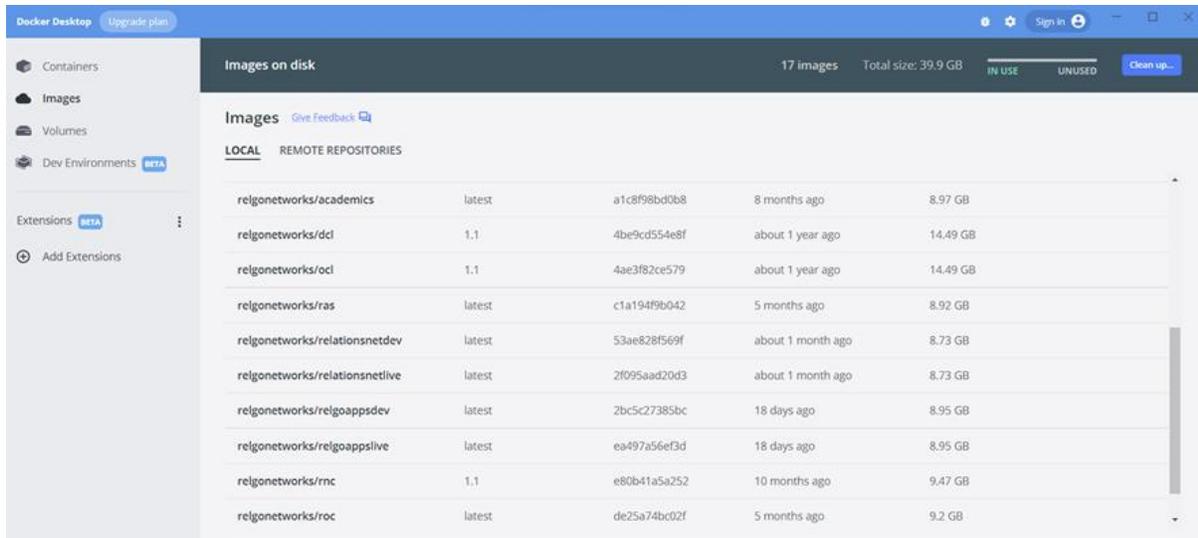
NOTE: Make sure you have logged in to your Docker account before executing the following commands.

**3.1** Download Docker images from Docker Hub by running the following commands in Windows power shell.

```
Docker pull relgonetworks/roc2022:latest
Docker pull relgonetworks/relgoapplive2022:latest
Docker pull relgonetworks/relationsnetlive2022:latest
Docker pull relgonetworks/ocl2022:latest
```

Administrator: Windows PowerShell

```
PS C:\> docker pull relgonetworks/roc:latest
latest: Pulling from relgonetworks/roc
4612f6d0b889: Already exists
c67ded6868b6: Already exists
acfd20817b94: Already exists
19b521ca6db2: Already exists
4784b611501d: Already exists
43dad267b59c: Already exists
9c87cbd198cc: Already exists
dd7883b11a55: Already exists
5f1c01609b3b: Already exists
578095460f76: Already exists
61401d5a3fd7: Already exists
7fea73f74001: Extracting [=====] 279.7MB/279.7MB
dd41101d8279: Download complete
db2b9dd69fe4: Download complete
15c2098af6f7: Download complete
5c7ef6aed335: Download complete
```



### 3.2

Create a new folder called “temp” in C drive.

Download OCLDB.mdf zip file from the following URL. Extract OCLDB.mdf from the downloaded zip file and copy it to the temp folder in the C drive

[https://relgo.com/Resources/@Bizcenter\\$5f19b2f2-8245-4f97-98ac-04c8ab231415-OCLDB\\_1.0.zip](https://relgo.com/Resources/@Bizcenter$5f19b2f2-8245-4f97-98ac-04c8ab231415-OCLDB_1.0.zip)

Download OCLDB\_log.ldf zip file from the following URL. Extract OCLDB\_log.ldf from downloaded zip file and copy it to the temp folder in the C drive

[https://relgo.com/Resources/@Bizcenter\\$7ae9ea5f-353d-4bde-b006-6bf2bf94dbda-OCLDB\\_log\\_1.0.zip](https://relgo.com/Resources/@Bizcenter$7ae9ea5f-353d-4bde-b006-6bf2bf94dbda-OCLDB_log_1.0.zip)

Open Windows PowerShell and run the following commands one by one.

**3.3** `docker network create --driver=nat --subnet=172.28.0.0/24 --gateway=172.28.0.1 relgonet`

**3.4** `docker run -d --name "OCL" --net=relgonet --ip=172.28.0.21 -p 1433:1433 -v C:/temp/:C:/temp/ -e MSSQL_SA_PASSWORD=Relgo123** -e ACCEPT_EULA=Y -e attach_dbs="{['dbName':'OCL','dbFiles':['C:\\temp\\ocldb.mdf','C:\\temp\\ocldb_log.ldf']}]}" relgonetworks/ocl2022:latest`

**3.5** `docker run -d --name "RelationsNetLive" -m 2GB --cpus="1" --net=relgonet --ip=172.28.0.16 -p 9016:80 relgonetworks/relationsnetlive2022:latest`

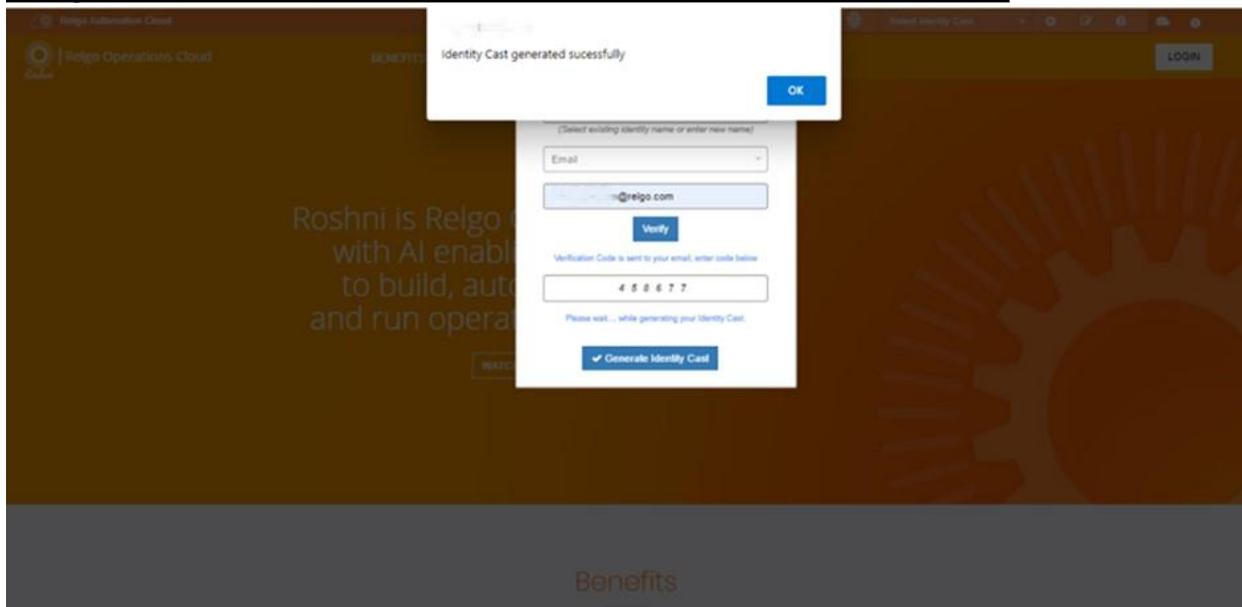
**3.6** docker run -d --name "ROC" -m 4GB --cpus="1" --net=relgonet --ip=172.28.0.13 -p 9013:80 relgonetworks/roc2022:latest

**3.7** docker run -d --name "RelgoAppsLive" -m 8GB --cpus="2" --net=relgonet --ip=172.28.0.14 -p 9014:80 relgonetworks/relgoapps2022:latest

**3.8** docker run -d --name "HRM" -m 4GB cpus="2" --net=relgonet --ip=172.28.0.18 -p 9018:80 relgonetworks/hrm2022:latest

After successful execution of above commands now you can access Relgo Solution Portal website from your browser by typing <http://172.28.0.13>

**\*\*Note :** Now, you can create a token by validating your email address and select token to login to Your Solution Portal website and complete basic installations.



**NOTE: FOLLOW STEP 4 INSTRUCTIONS, IF YOU DO NOT HAVE PUBLIC ACCESS TO RelationsNet URL**

**STEP 4: NOTE: TO DEPLOY THE APPLICATION PACKAGE FROM RELGO CLOUD, WE NEED TO ENABLE "RELATIONS NET URL" PUBLIC ACCESSIBLE.**

How to make your IP publicly accessible?

Here I will use the port forwarding technique to make your IP publicly accessible.

**Step 4.1:** Login to <http://portmap.io> or register yourself if you do not have an account.

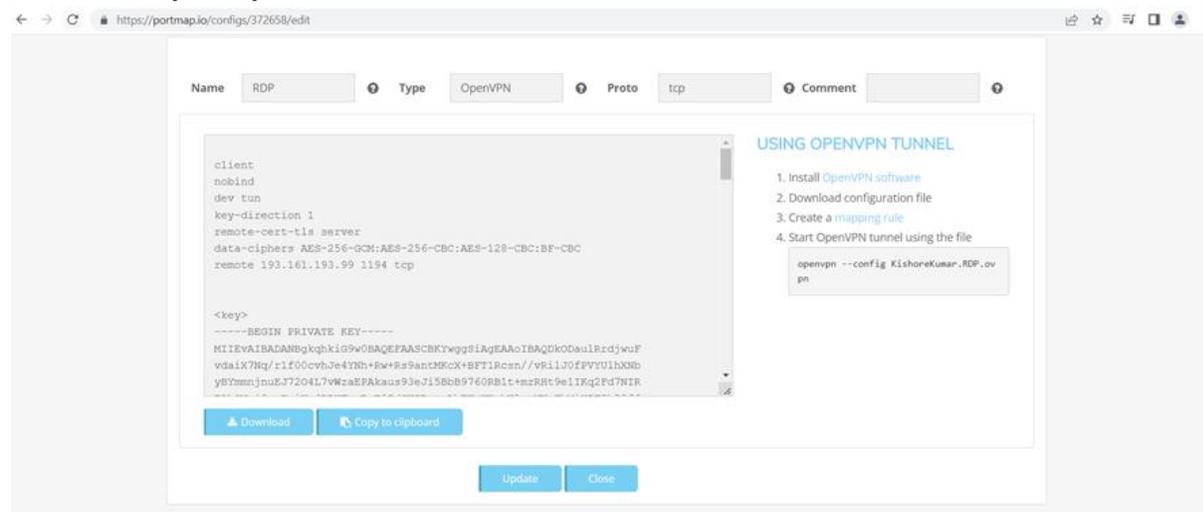
**Step 4.2:** After logging in, go to Configurations and create a new configuration as below.

Name: As per your choice, like "RDP."

Type: OpenVPN (We are going to OpenVPN configuration settings to enable public access to the RelationsNet URL.

Port: TCP

Click on the Generate button, which will generate an OpenVPN configuration file and download the same to your system.



**Step 4.3:** Now go to MAPPING RULE and click on "Create New Rule".

**There is no need to change the default data. Just give the port on your PC as "9255" or the port number you have given during the RelationsNet docker container creation.**

portmap.io    REGIONS    CONFIGURATIONS    MAPPING RULES    SUPPORT    API BETA    KISHOREKUMAR

Edit OpenVPN rule tcp://KishoreKumar-57490.portmap.io:57490 => 9255

Configuration	RDP	OpenVPN/tcp
Protocol	tcp	
Hostname	KishoreKumar-5	portmap.io
Port on Portmap.io	57490	
Port on your PC	9255	
Allowed IPs		

**Step 4.5:** Now you just run OpenVPN software and select the OpenVPN configuration file. If you have not already done so, you must install Open VPN software.

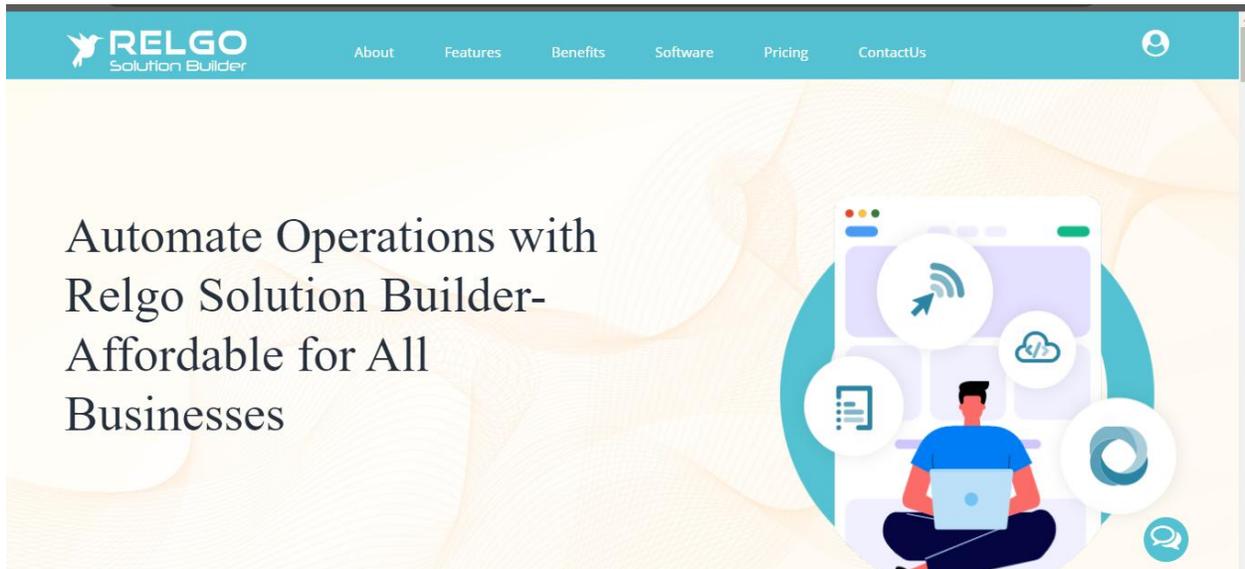
**<https://openvpn.net/community-downloads/>**

Now you should be able to access your relations net URL from anywhere through the system browser.

**REFERENCE:** <https://www.youtube.com/watch?v=YE2L0uT153w>

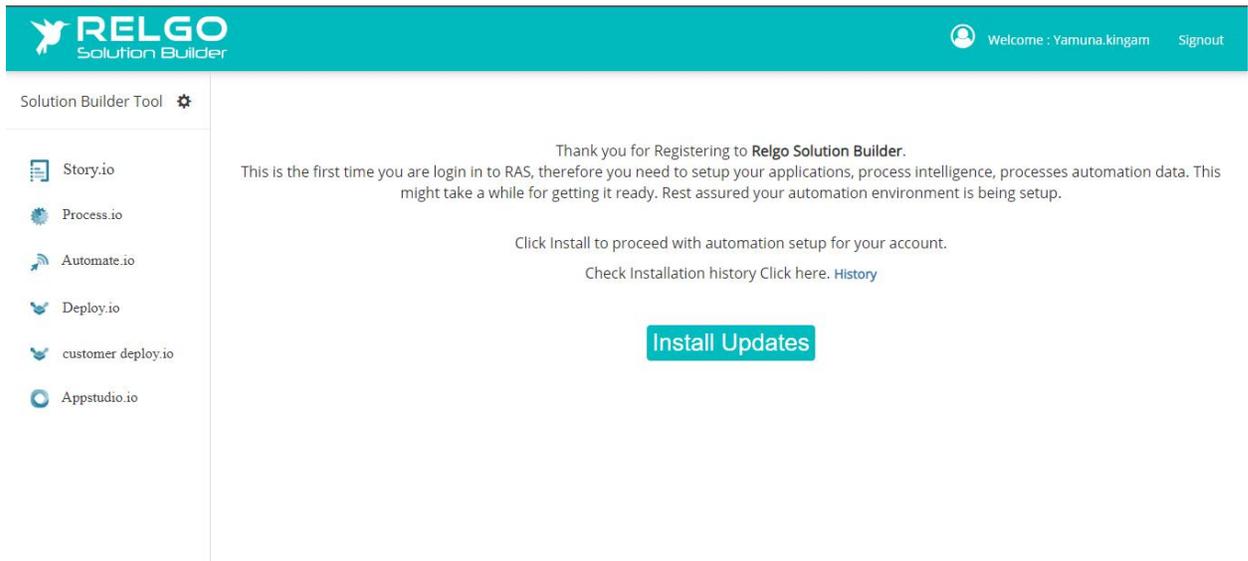
## 5. HRM APPLICATION DEPLOYMENT

5.1 Go to Solution builder website <http://198.71.49.234:9032/>



**\*\*\*Note :** Create your identity with your email as you set up in your environment. Now Purchase “Automation Subscription” license to login to solution builder website.

**Login and complete basic installations.**



## 5.2 Create Package

## Goto **Process.io** → **Appspaces**→**New Appspace**

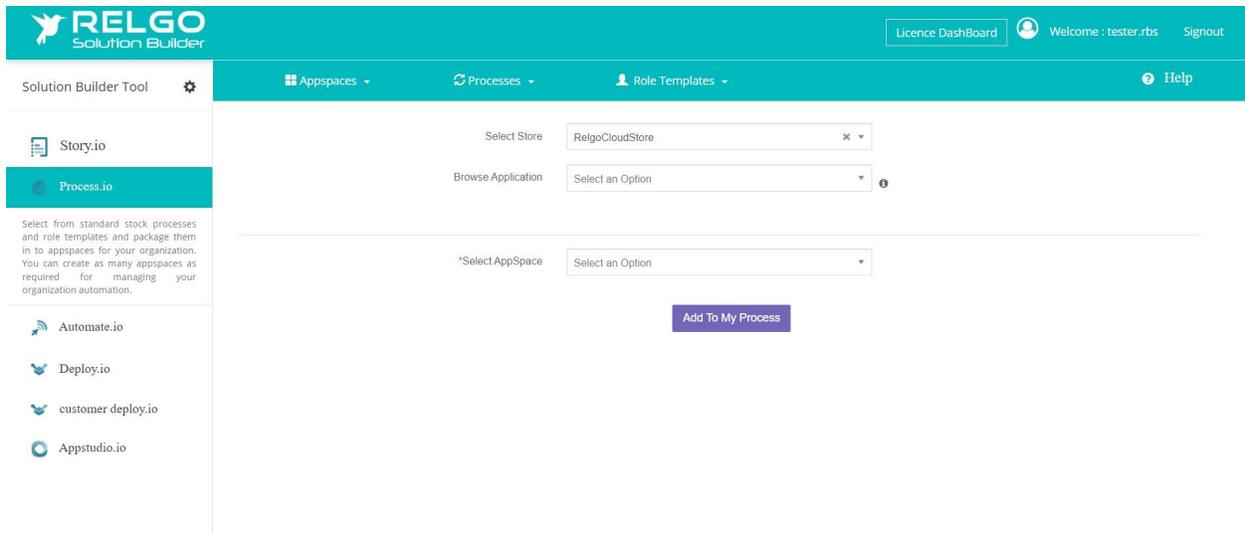
- Click on AppSpaces dropdown menu
- Choose 'New AppSpaces'
- Fill the fields like App Space name and description then click on “Publish App Space” button to create the App Space which is shown in below screen

The screenshot displays the RELGO Solution Builder interface. The top navigation bar is teal and contains the RELGO logo, a 'Licence DashBoard' button, a user profile icon with the text 'Welcome : tester.rbs', and a 'Signout' link. Below the navigation bar is a teal sidebar with the text 'Solution Builder Tool' and a gear icon. The sidebar lists several options: 'Story.io', 'Process.io' (highlighted in teal), 'Automate.io', 'Deploy.io', 'CustomerDeploy.io', and 'Appstudio.io'. The 'Process.io' section includes a brief description: 'Select from standard stock processes and role templates and package them in to appspaces for your organization. You can create as many appspaces as required for managing your organization automation.' The main content area is white and features a teal header with 'Appspaces', 'Processes', and 'Role Templates' dropdown menus, and a 'Help' icon. The form contains two input fields: '\*Appspace Name' with the value 'HRM Application Package' and 'Description' which is empty. At the bottom of the form are two buttons: 'Publish AppSpace' (purple) and 'Cancel' (teal).

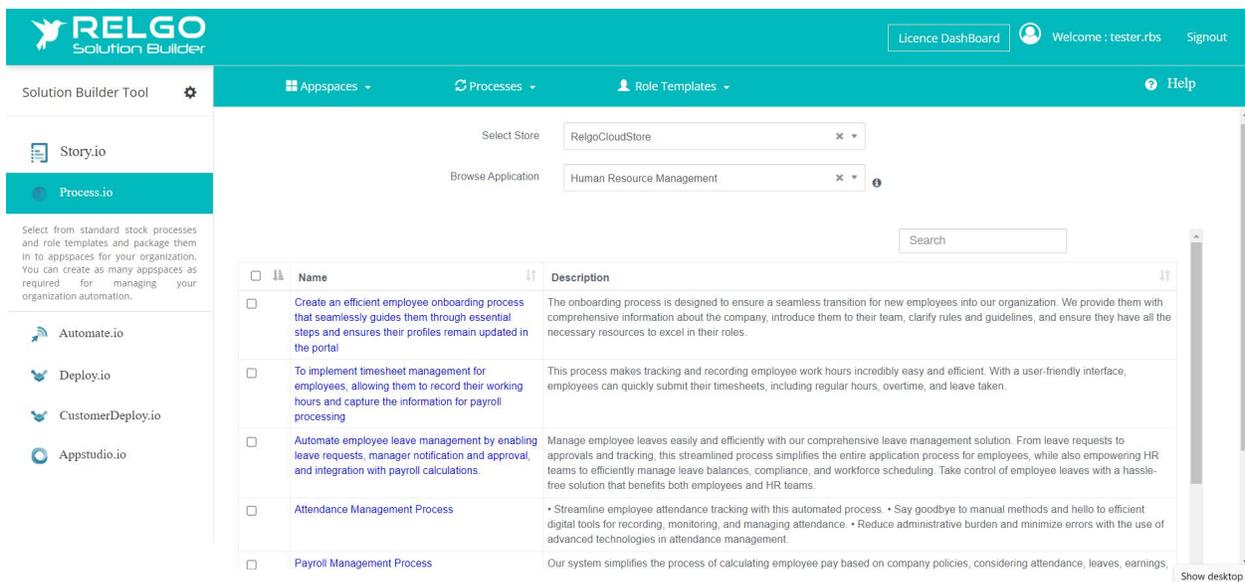
## 5.3 To Select Processes

### Goto **Process.io** → **Processes**→**Select Processes**

- Choose the 'select process' under processes
- Opt for 'Cloud App store' as the store.



Select the **“Human Resource Management”** application from the 'Browse Applications', processes under the selected application are displayed as shown below.



Select the required processes (refer below image) and scroll down to the bottom to see the appspace selection. There please select the appspace and click on “Add to My Process” button to complete the action as below.

RELGO Solution Builder

Licence Dashboard Welcome: tester.rbs Signout

Solution Builder Tool

Appsaces Processes Role Templates Help

Select Store: RelgoCloudStore

Browse Application: Human Resource Management

Search

<input type="checkbox"/>	Name	Description
<input checked="" type="checkbox"/>	Create an efficient employee onboarding process that seamlessly guides them through essential steps and ensures their profiles remain updated in the portal	The onboarding process is designed to ensure a seamless transition for new employees into our organization. We provide them with comprehensive information about the company, introduce them to their team, clarify rules and guidelines, and ensure they have all the necessary resources to excel in their roles.
<input checked="" type="checkbox"/>	To implement timesheet management for employees, allowing them to record their working hours and capture the information for payroll processing	This process makes tracking and recording employee work hours incredibly easy and efficient. With a user-friendly interface, employees can quickly submit their timesheets, including regular hours, overtime, and leave taken.
<input checked="" type="checkbox"/>	Automate employee leave management by enabling leave requests, manager notification and approval, and integration with payroll calculations.	Manage employee leaves easily and efficiently with our comprehensive leave management solution. From leave requests to approvals and tracking, this streamlined process simplifies the entire application process for employees, while also empowering HR teams to efficiently manage leave balances, compliance, and workforce scheduling. Take control of employee leaves with a hassle-free solution that benefits both employees and HR teams.
<input checked="" type="checkbox"/>	Attendance Management Process	• Streamline employee attendance tracking with this automated process. • Say goodbye to manual methods and hello to efficient digital tools for recording, monitoring, and managing attendance. • Reduce administrative burden and minimize errors with the use of advanced technologies in attendance management.
<input checked="" type="checkbox"/>	Payroll Management Process	Our system simplifies the process of calculating employee pay based on company policies, considering attendance, leaves, earnings,

RELGO Solution Builder

Licence Dashboard Welcome: tester.rbs Signout

Solution Builder Tool

Appsaces Processes Role Templates Help

Select AppSpace: HRM Application Package

<input type="checkbox"/>	Name	Description
<input checked="" type="checkbox"/>	Create an efficient employee onboarding process that seamlessly guides them through essential steps and ensures their profiles remain updated in the portal	The onboarding process is designed to ensure a seamless transition for new employees into our organization. We provide them with comprehensive information about the company, introduce them to their team, clarify rules and guidelines, and ensure they have all the necessary resources to excel in their roles.
<input checked="" type="checkbox"/>	To implement timesheet management for employees, allowing them to record their working hours and capture the information for payroll processing	This process makes tracking and recording employee work hours incredibly easy and efficient. With a user-friendly interface, employees can quickly submit their timesheets, including regular hours, overtime, and leave taken.
<input checked="" type="checkbox"/>	Automate employee leave management by enabling leave requests, manager notification and approval, and integration with payroll calculations.	Manage employee leaves easily and efficiently with our comprehensive leave management solution. From leave requests to approvals and tracking, this streamlined process simplifies the entire application process for employees, while also empowering HR teams to efficiently manage leave balances, compliance, and workforce scheduling. Take control of employee leaves with a hassle-free solution that benefits both employees and HR teams.
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<input checked="" type="checkbox"/>	Payroll Management Process	Our system simplifies the process of calculating employee pay based on company policies, considering attendance, leaves, earnings, deductions, and incentives. Plus, it streamlines leave application, helps HR teams efficiently manage leave balances, ensure compliance, and optimize workforce scheduling.

Add To My Process

Show desktop

## 5.4 To Purchase the application

Go to **Process.io** → **Appsaces** → **My AppSpaces**

- Click on AppSpaces dropdown menu
- Select 'My AppSpaces'

You can buy the application by clicking the 'purchase' button as shown in the below screen.

The screenshot shows the RELGO Solution Builder interface. The top navigation bar includes the RELGO logo, 'Solution Builder', and user information: 'Licence Dashboard', 'Welcome : tester.rbs', and 'Signout'. The main menu has 'Solution Builder Tool', 'Appsaces', 'Processes', 'Role Templates', and 'Help'. The left sidebar lists various tools: Story.io, Process.io (selected), Automate.io, Deploy.io, CustomerDeploy.io, and Appstudio.io. The main content area displays a table of application packages:

Appspace Name	Description	Live Status	Updated By	Last Update	Status	Purchase	Action				
HRM Application Package		New	testerrbs	01/06/2024	Pending	<table border="1"> <tr> <th>Application Name</th> <th>Purchase Action</th> </tr> <tr> <td>Human Resource Management</td> <td><a href="#">Purchase</a></td> </tr> </table>	Application Name	Purchase Action	Human Resource Management	<a href="#">Purchase</a>	
Application Name	Purchase Action										
Human Resource Management	<a href="#">Purchase</a>										

Below the table, it says 'Showing 1 to 2 of 2 entries (filtered from 37 total entries)'. There are 'Previous', '1', and 'Next' navigation buttons. A 'Show desktop' button is located at the bottom right of the interface.

After clicking on purchase, it will redirect you to the store where you can seamlessly complete your purchase.

5.4 (A) To buy the desired application, you should now add the application to the cart.

The screenshot shows the RELGO store page for 'Human Resource Management'. The top navigation bar includes the RELGO logo, 'Process Simplified', and a shopping cart icon with '0' items. The left sidebar lists categories: Consultancy Services, Devices, Digital Currency, Enterprise Application Licenses, SaaS Application Licenses, Share Capital, Tools Enterprise Licenses, and Tools SaaS Licenses. The main content area features a product card for 'RELGO Human Resource Management' with a price of '\$2500' and an illustration of people working. The product description states: 'Human Resource management, or HRM, involves coordinating, managing, and allocating human Resource, or employees, in ways that move an organization's goals forward. HRM focuses on investing in employees, ensuring their safety, and managing all aspects of staffing from hiring to compensation and development. HRM careers may specialize in compensation, training, or managing employees. Most HRM professionals hold a bachelor's degree and some go on to pursue a master's degree. HRM professionals at all levels can also earn professional certifications to help build knowledge and increase earning potential. HRM's goal is to build a company culture and carry out its mission and overall goals through the management of employees.'

The 'Available Packs' section lists two options:

- Human Resource Management**  
32000 Anas (200000 INR)
- HRM**  
1 Anas (6.25 INR)

An 'Add to Cart' button is located at the bottom right of the product card.

- Categories** X
- Consultancy Services >
  - Devices >
  - Digital Currency >
  - Enterprise Application Licenses >
  - SaaS Application Licenses >
  - Share Capital >
  - Tools Enterprise Licenses >
  - Tools SaaS Licenses >

Human Resource Management



**Description**

Human Resource management, or HRM, involves coordinating, managing, and allocating human Resource, or employees, in ways that move an organization's goals forward. HRM focuses on investing in employees, ensuring their safety, and managing all aspects of staffing from hiring to compensation and development. HRM careers may specialize in compensation, training, or managing employees. Most HRM professionals hold a bachelor's degree and some go on to pursue a master's degree. HRM professionals at all levels can also earn professional certifications to help build knowledge and increase earning potential. HRM's goal is to build a company culture and carry out its mission and overall goals through the management of employees.

**Available Packs**

**Human Resource Management**  
32000 Anas (200000 INR)

**HRM**  
1 Anas (6.25 INR)

Add to Cart

After clicking on add to cart button, the below screen will appear

Categories / My Shopping Cart

Price Name	Price Type	Unit Price	Quantity	Amount	Tax	Total
Human Resource Management	E.A.L	32000 Anas (200000 INR)	1	32000 Anas (200000 INR)	5760 (36000 INR)	37760 Anas (238800 INR)

**Payment Summary**

Total	: 32,000.00Anas (200000.00 INR)
Total Tax	: 5760.00Anas (36000.00 INR)
Shipping Charges	: 0.00Anas
<b>Grand Total</b>	<b>: 37760Anas (238800.00 INR)</b>

Continue to add more items

You have not Selected the identity cast.  
Select the identity cast to proceed the payment

Please Select Token

Proceed to Payment

[No Token? Verify Identity and Get Token !](#)

- Here the user has to select the identity cast, if the user does not have any then create one by clicking on 'no token? Verify Identity and get token' button
- After creating the token, refresh the page
- Then select the created identity cast and click on 'Proceed to Payment' button
- A screen will appear as shown below, there click on 'Proceed'.

Categories / My Shopping Cart / Payment type

Items in your order

Item	Quantity	Price Name	Unit Price	Total	Tax Amount	Grand Total
Human Resource Management	1	Human Resource Management	32000 Anas (200000 INR)	32000 Anas (200000 INR)	5760 Anas (36000 INR)	37760 Anas (236000 INR)

Promotion Code

Enter Promocode

Shipping Charges

Total

Select a Payment Method

- Anas
- Debit/Credit Card
- NET/RTGS

Use Anas for Payment

Available Anas : 50000 (312500 INR)

Required Anas : 37760 (236000 INR)

Here check all the details, and click on 'confirm'.

Organization Name

Customer Name

\*Order Id

\*Mobile Number

\*Email Address

Billing Address

Date

Shipping Address

Item Details

Item	UOM	Quantity	Price Names	Frequency	Unit Price	Amount	Tax Amount
Human Resource Management	Numbers	1	Human Resource Management	OneTimeCharge	32000	32000	Total - 5760

Payment Mode

Total Amount

Grand Total

Total Tax

Shipping Charges

A screen will appear saying, your order has been received.

## Your order has been received.

Thank you for your Purchase!

Your Order No is : **76546832**

We will be sending you an email confirmation of your order as well. To track your order status, Please visit Relgo. For any queries Please contact our Customer Services team.

Thanks,  
Relgo Networks Pvt Ltd.

[Continue Shopping](#)

## 5.5 Deploy the application

After purchasing, Again login to your Solution Builder account and deploy the package.

Please setup your **Service** in **Customer deploy.io**

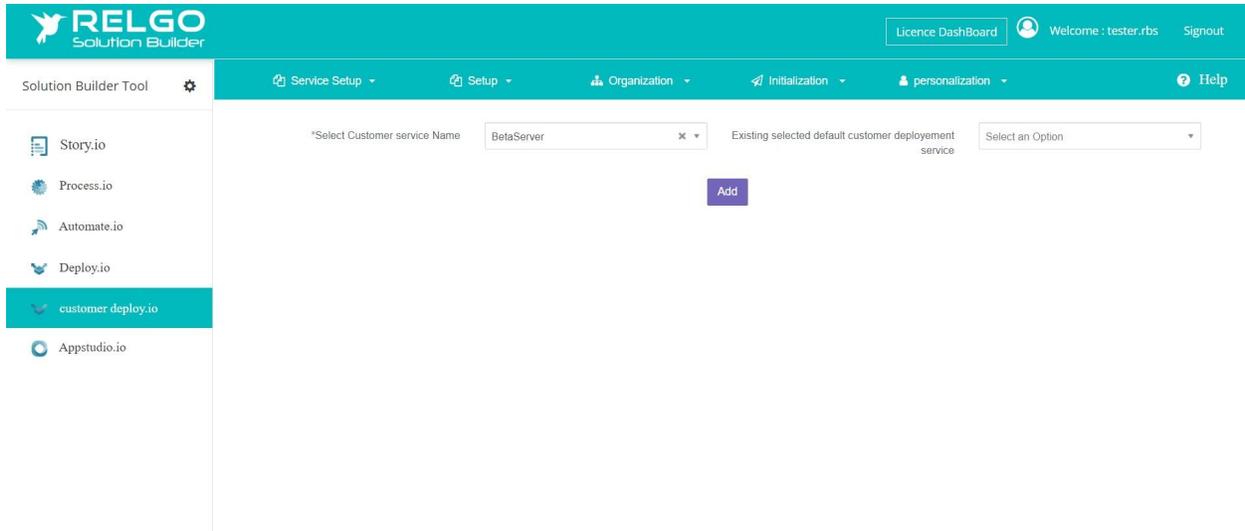
Go to **Customer deploy.io** → **Service Setup** → **Setup Customer Deployment**

- Click on 'Setup customer deployment' under service setup
- Provide the customer service name and service url and click on Add button

The screenshot displays the RELGO Solution Builder interface. The top navigation bar is teal and contains the RELGO logo, a 'Licence Dashboard' button, and a user profile section with 'Welcome : tester.rbs' and a 'Signout' link. Below the navigation bar is a menu with options: 'Solution Builder Tool', 'Service Setup', 'Setup', 'Organization', 'Initialization', 'personalization', and 'Help'. The main content area shows a form for adding a new service. The form has two input fields: '\*Customer service Name' with the value 'BetaServer' and '\*Service Url' with the value 'http://161.97.164.19:9016/RelationsNet.asmx'. Below the input fields are two buttons: 'Add' (purple) and 'Cancel' (blue). On the left side of the interface, there is a sidebar menu with icons and labels for 'Story.io', 'Process.io', 'Automate.io', 'Deploy.io', 'customer deploy.io' (highlighted in teal), and 'Appstudio.io'.

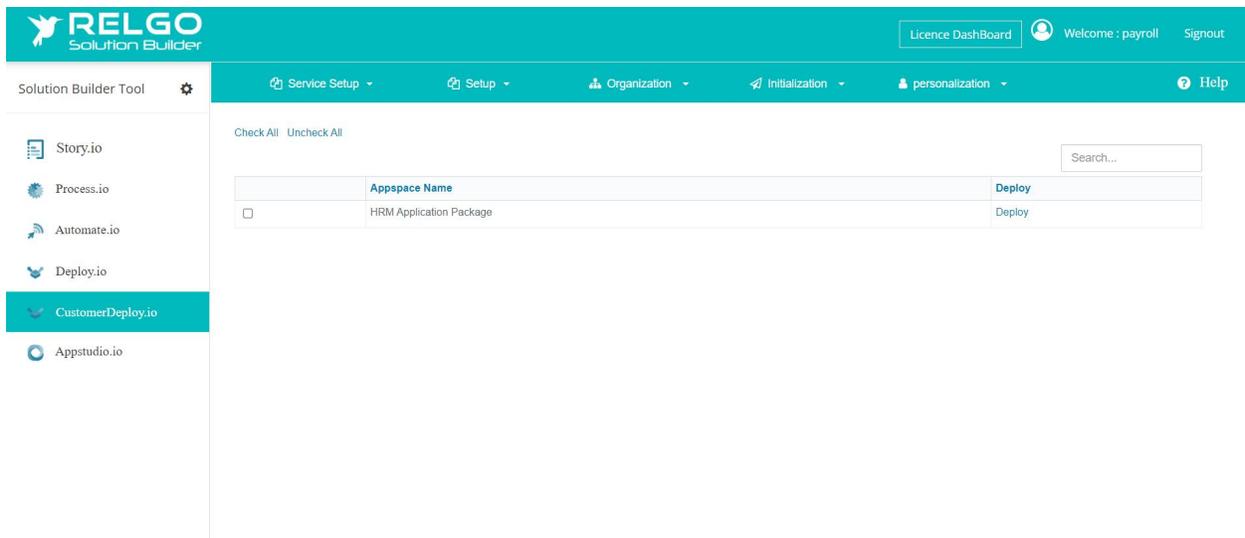
## Go to **Customer deploy.io** → **Service Setup**→**Setup Default Customer Deployment**

- Click on 'Setup Default Customer Deployment' under service setup
- Provide the necessary details and click on the Add button.



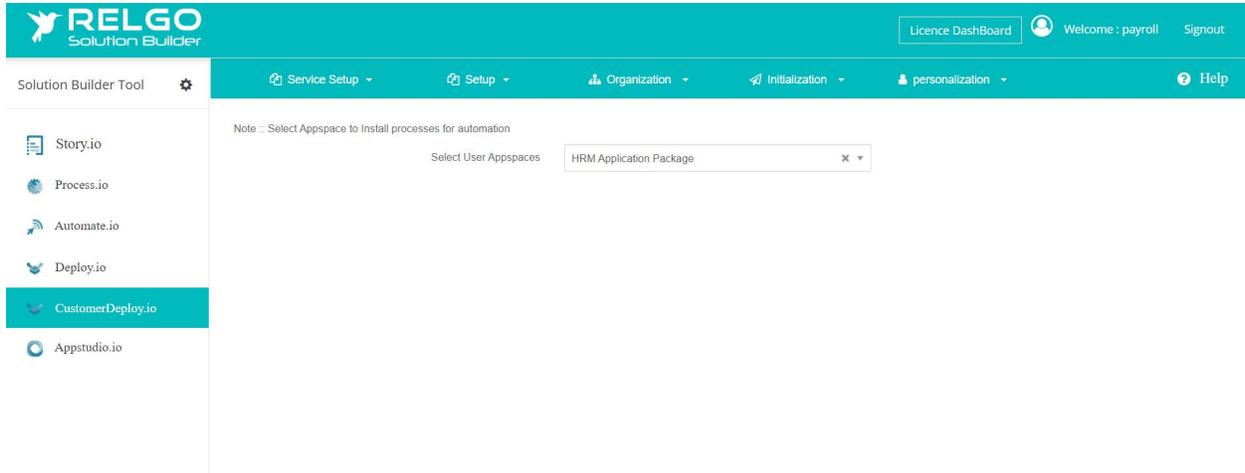
## Go to **Customer deploy.io** → **Setup**→**My AppSpaces**

- Click on 'My AppSpaces' under setup.
- Here the user has to select the application and click on 'Deploy'.
- A popup appears saying 'Data deployed successfully'

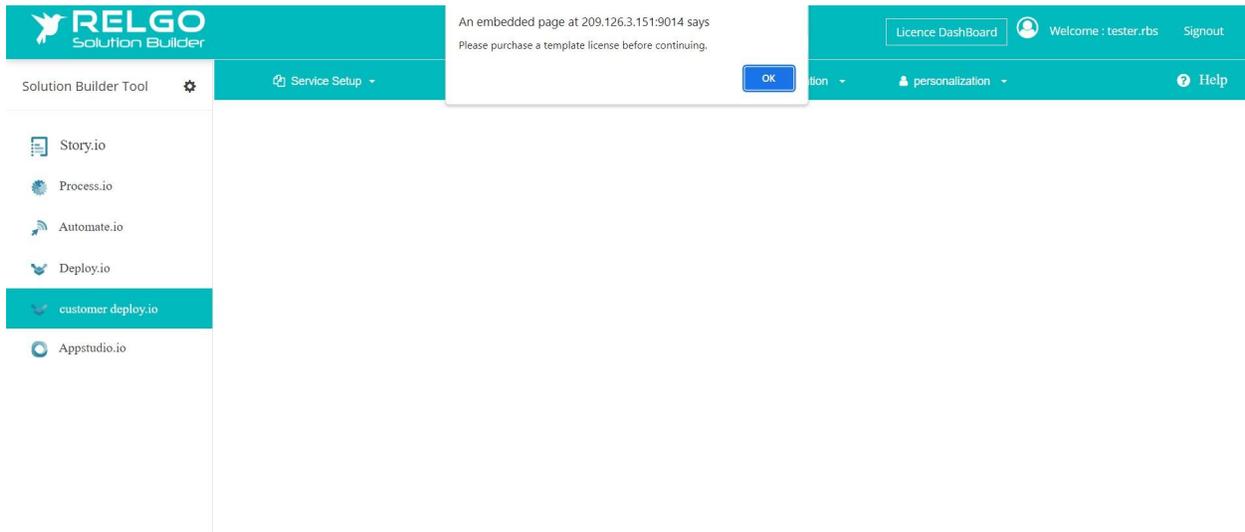


## Go to **Customer deploy.io** → **Setup**→**Package Wise Installations**

- Click on Package wise Installations under setup
- User has to select the deployed package here for package wise installations



**NOTE:** If you try to deploy the application without purchasing the application template license, a popup message will appear, as shown below.



## 5.5(A) Application Installations

Install each process by clicking on 'Install', followed by 'Install Menu Data'

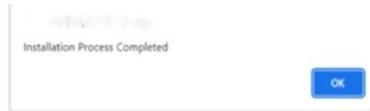
Note : Select Appspace to Install processes for automation

Select User Appspaces: HRM Application Package

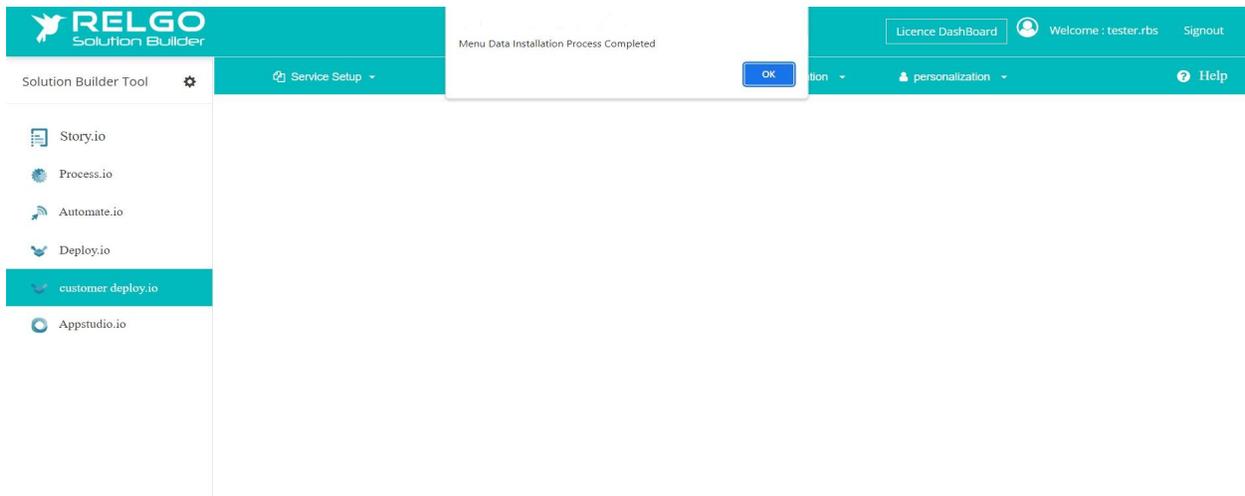
Check All Uncheck All

Appspace Name	Description	Select Process	Updated On	Task	Install	Install Menu Data	Updates	Installation Info
<input type="checkbox"/>	HRM Application Package	Create an efficient employee onboarding process that seamlessly guides them through essential steps and ensures their profiles remain updated in the portal	11/30/2023	Organization Directory Installation	start	Install Menu	No Updates	
<input type="checkbox"/>				Organization Directory Installation	start	Install Menu	No Updates	
<input type="checkbox"/>		To implement timesheet management for employees, allowing them to record their working hours and capture the information for payroll processing	11/30/2023	Timesheet Management Installation	start	Install Menu	No Updates	
<input type="checkbox"/>				Timesheet Management Installation	start	Install Menu	No Updates	
<input type="checkbox"/>		Automate employee leave management by enabling leave requests, manager notification and approval, and integration with payroll calculations	11/30/2023	Leave Management Installation	start	Install Menu	Install Updates	
<input type="checkbox"/>				Leave Management Installation	start	Install Menu	Install Updates	
<input type="checkbox"/>		Attendance Management Process	11/30/2023	Attendance	start	Install	Install	

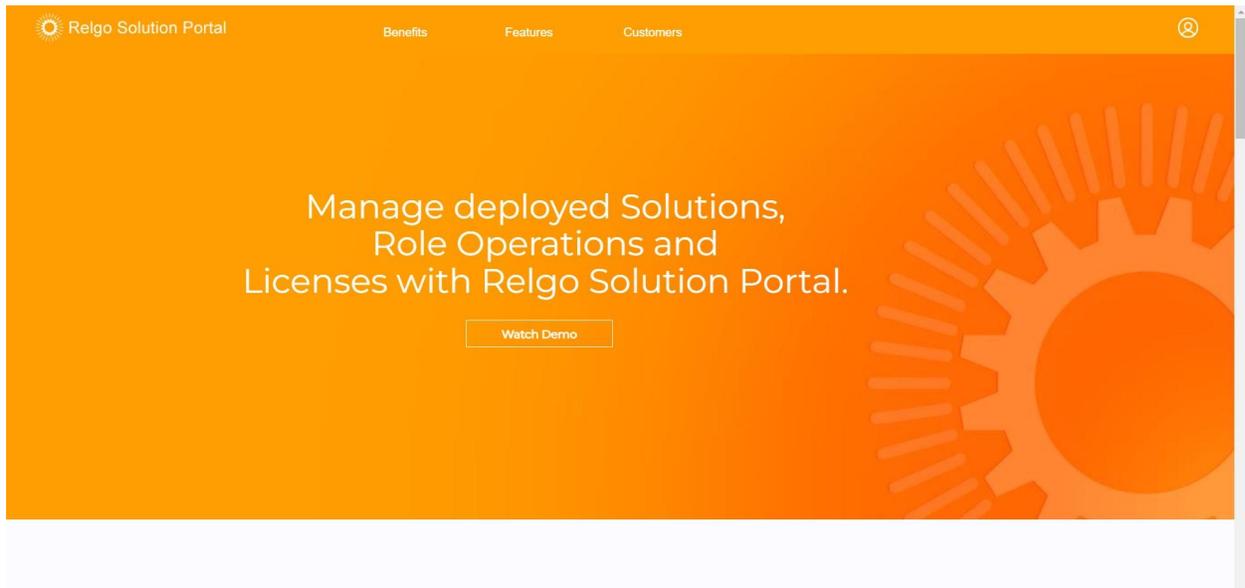
Click on 'Start' button, then a popup will appear saying installation process completed, as shown below.



After that click on 'Install Menu'. Then you will get a popup saying Menu Data installation process completed, as shown below.



## 5.6 Login to Your Solution Portal account

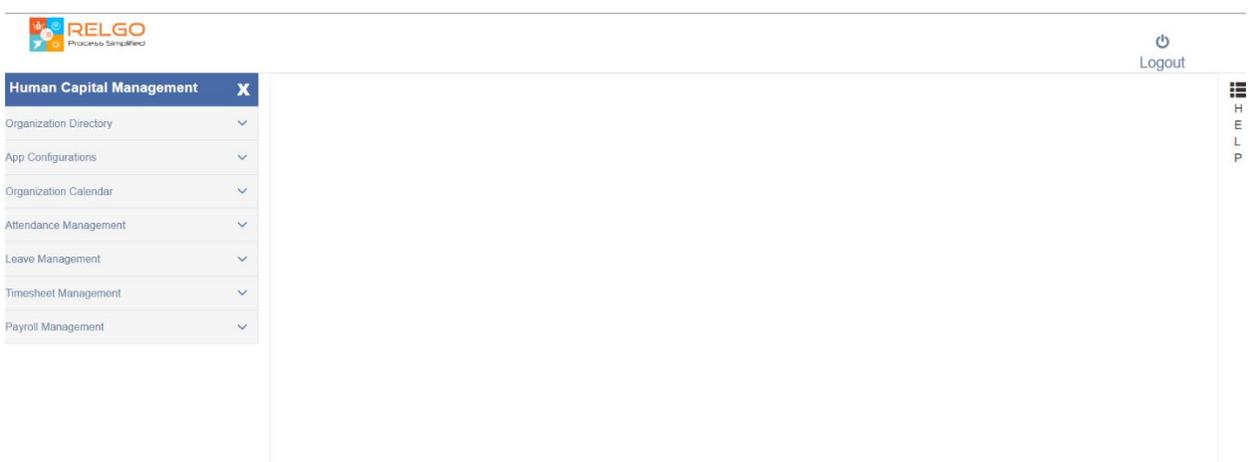


After successful login, click on All Modules, you can find your application. Click on the Launch button to use the application.

All Modules

Module	Description	Details	Launch
Human Capital Management	Manages employees and workers attendance, leaves, benefits, performance and presence for payroll. Application integrates presence with IOT device for collecting presence data.	Details	Launch
My Applications		Details	Launch
Common Apps		Details	Launch

By clicking on launch of Human Capital Management, you will be directed to the application container as shown below.



RELGO  
Process Simplified

Logout

**Human Capital Management** X

- Organization Directory
- App Configurations
- Organization Calendar
- Attendance Management
- Leave Management
- Timesheet Management
- Payroll Management

HELP

Here the user can use the application.