

- Download the next files >

- o [namespace.yaml](#)
- o [log4net\\_config.yaml](#)
- o [pvclaim\\_aks.yaml](#)
- o [deployment.yaml](#)
- o [hpa.yaml](#)
- o [service.yaml](#)
- o [ingress.yaml](#)

- You can do it from here (<https://github.com/boldreports/bold-reports-kubernetes/tree/master/deploy>)
- Also If you want , you can create a Ingress Folder to store all the files .

- deployment.yaml
- hpa.yaml
- ingress.yaml
- log4net\_config.yaml
- namespace.yaml
- pvclaim\_aks.yaml
- service.yaml

- Open Vs code in that path .
- Then you have to login with az login in the terminal .

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\lc5742973\OneDrive - FIS\Desktop\AKS-Report> az login
```

- Then go to you azure portal and open the cluster you need .
- Example =

Azure services

Create a resource | Kubernetes services | All resources | Azure DevOps organizations | App Services | Service Bus | APC Gateways | Event Grid Namespaces | Resource groups | More services

Resources


Recent | Favorite

Name	Type	Last Viewed
pcs-eastus2-dev-aks	Kubernetes service	50 minutes ago
coredev_team-action-group	Action group	3 weeks ago
pcs-eastus2-dev-appinsights	Application Insights	3 weeks ago
test-endpoint-webapp	App Service	a month ago
ddx-dev-webservices-int-webapp	App Service	a month ago
ddx-dev-services-webapp	App Service	a month ago
pcs-eastus2-dev-namespace	Service Bus Namespace	a month ago

- Click on [Conect]

✦ ☆ ...

+ Create ▾ | 🔗 Connect | ▶ Start | □ Stop | 🗑 Delete | ↺ Refresh | 📱 Open in mobile | 🗣 Give feedback

^ Essentials 

Resource group : [SDL-RESOURCES-INVESTRAN-DEV-EUS2](#)

Power state : Running

Cluster operation status : Succeeded

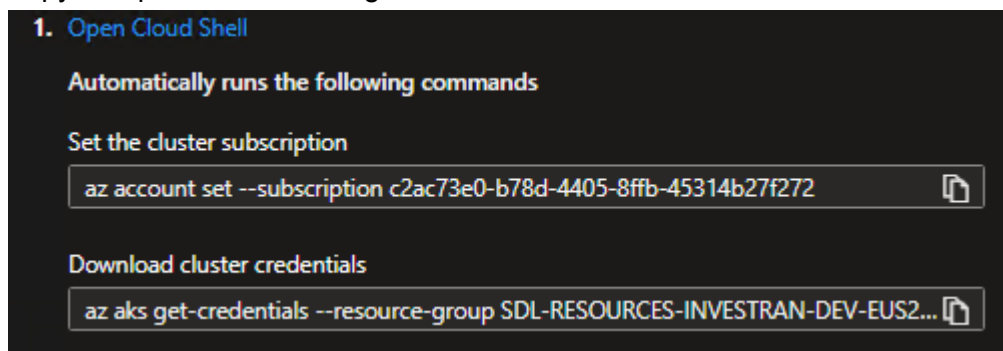
Subscription : [FIS Global - CIO - Dev - Investran PCS - TFE Managed](#)

Location : East US 2

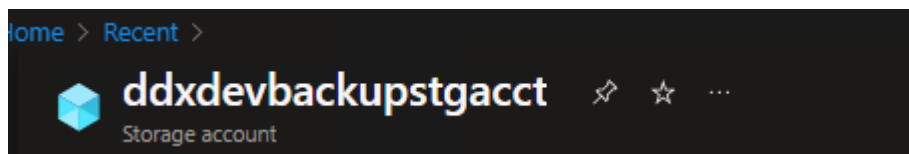
Subscription ID : c2ac73e0-b78d-4405-8ffb-45314b27f272

Tags ([edit](#)) : AppGroupEmail : FISDEV.Cloud@fisglobal.com | Description : AKS Cluster

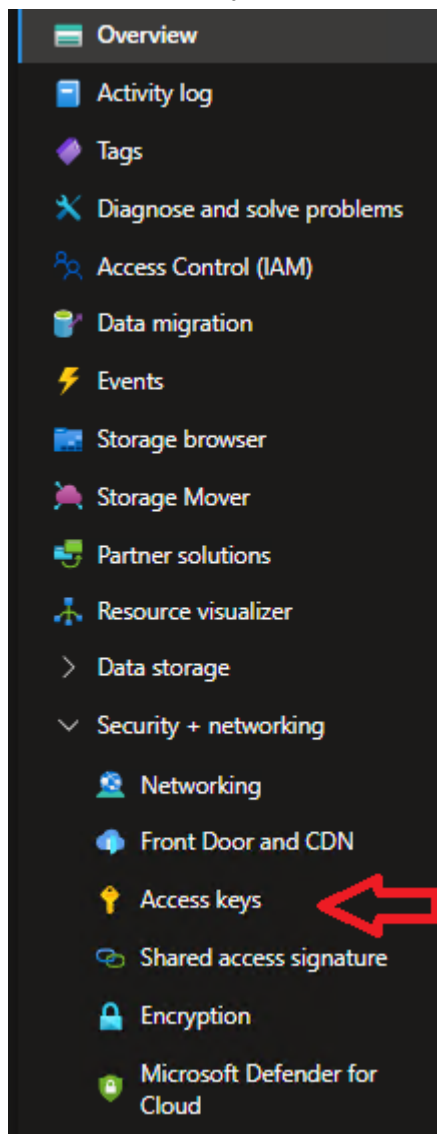
- Copy and paste the followings commands =



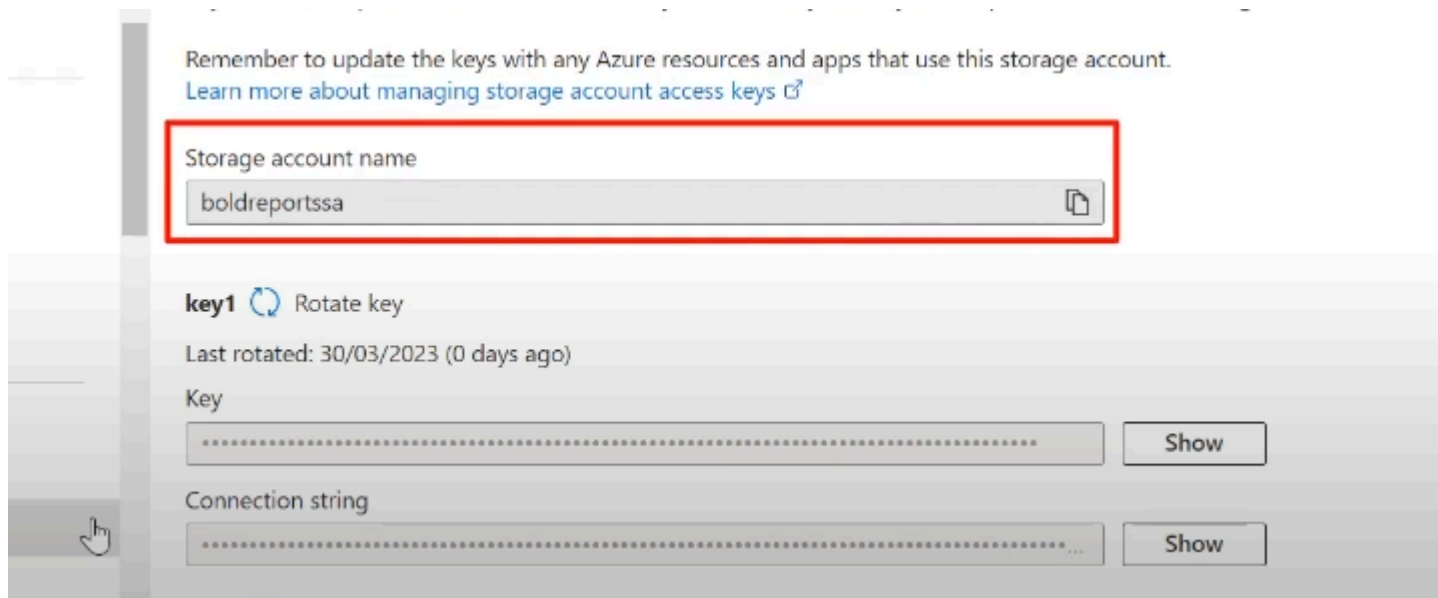
- Then run the next command =
- `kubectl apply -f https://raw.githubusercontent.com/kubernetes/ingress-nginx/controller-v1.2.0/deploy/static/provider/cloud/deploy.yaml`
- In azure portal, Go to you Storage Account
- Example =



- Go to [Access Keys]

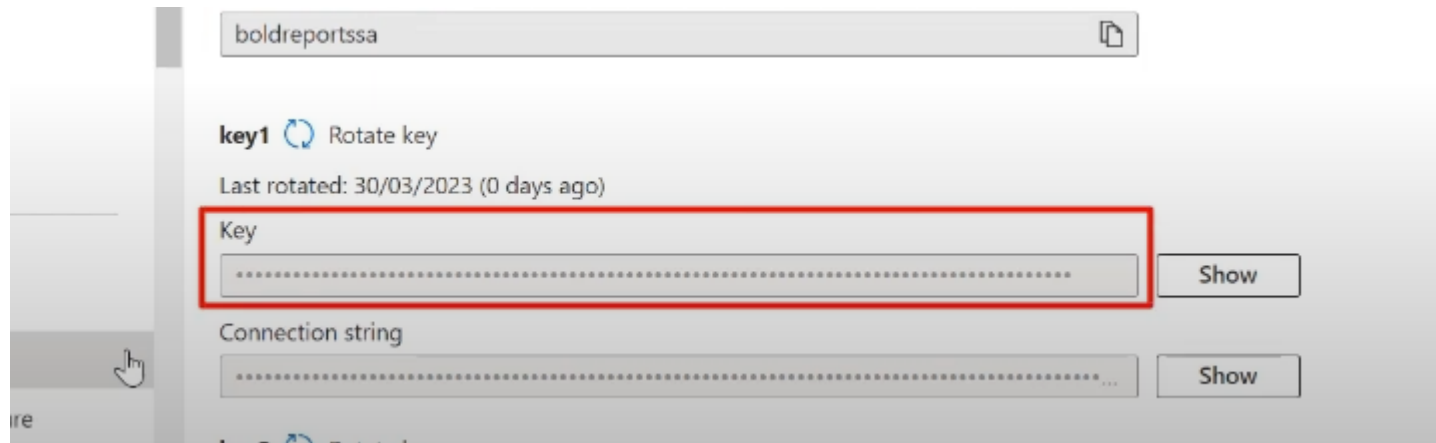


- Copy the Storage Account name
- Example =

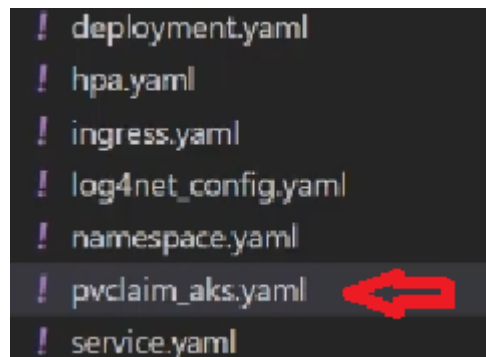


- And the Storage Account Key

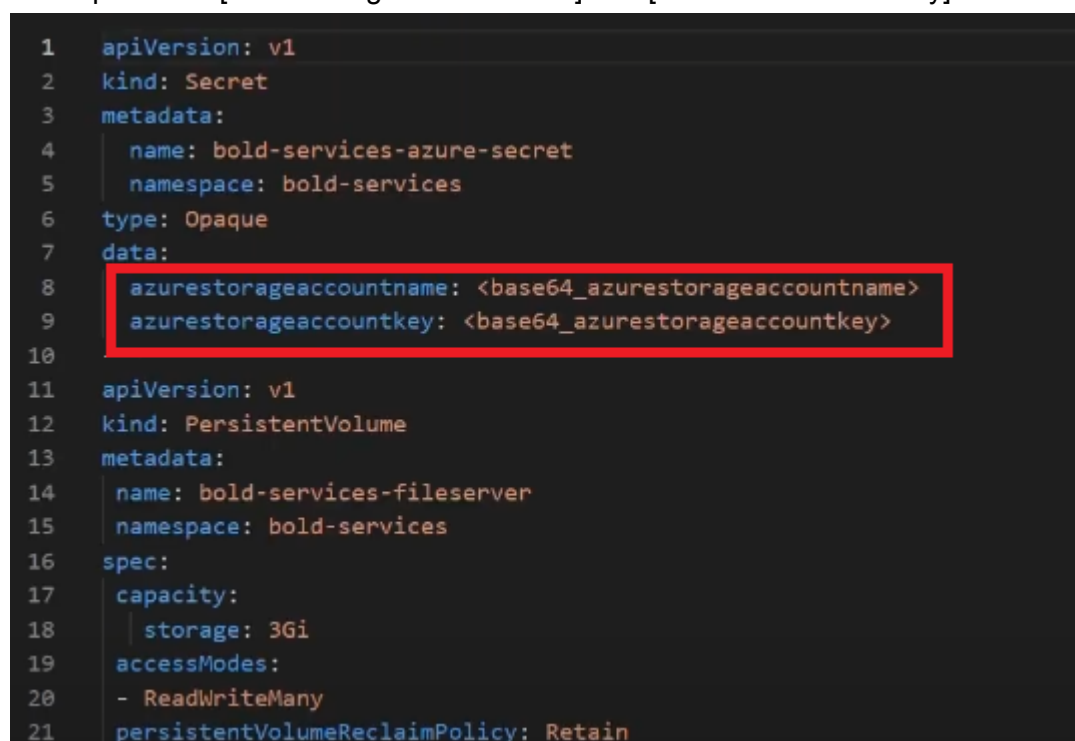
- Example =



- Then Go to VS code > pvclaim\_aks.yaml



- And replace the [azurestorageaccountname] and [azurestorageaccountkey]



- Then run the next command =

- kubectl apply -f namespace.yaml

- You will see a message like this:

namespace/bold-services created

- And =

- kubectl apply -f log4net\_config.yaml

- Again, You will see a message like this:

configmap/log4net-config created

- In this example we are going to deploy the report server using the ingress IP address.

- If you like to set up the report server with the domain, then you can directly add the domain name and tls secret name under the tls and rules section in the ingress.yaml file



By default the application will be hosted in non-SSL mode

If you want to configure SSL we need to add the domain and SSL configuration in the ingress.yaml file

- Before configuring SSL I need to create the tls secret with the SSL certificate by running this command:

```
kubectl create secret tls boldreports-tls -n bold-services --key <key-path> --cert
<certificate-path>
```

- [boldreports-tls] is the secret name.
- [<key-path>] Indicates the path for the .pem file and the .crt file path, you should use your domain SSL certificate .
- Then run this command to apply the Bold reports Ingress and get the IP address :
- kubectl apply -f ingress.yaml
- Then run this command until we get an Ingress IP address:
- kubectl get ingress -n bold-services -w

NAME	CLASS	HOSTS	ADDRESS	PORTS	AGE
boldreports-ingress	<none>	*		80	20s
boldreports-ingress	<none>	*	20.232.216.163	80	44s

- Once you have the IP address you need to map it with the domain you added in the ingress.yaml file. For example I deploy the application using the IP address:

NAME	CLASS	HOSTS	ADDRESS	PORTS	AGE
boldreports-ingress	<none>	*		80	20s
boldreports-ingress	<none>	*	20.232.216.163	80	44s

- Go to the deployment.yaml file and replace the domain ingress IP address in the application base URL

```
env:
  - name: APP_BASE_URL
    value: {application_base_url}
  - name: INSTALL_OPTIONAL_LIBS
    value: <comma_separated_library_names>
readinessProbe:
```

```
env:
  - name: APP_BASE_URL
    value: http://20.232.216.163
  - name: INSTALL_OPTIONAL_LIBS
    value: <comma_separated_library_names>
readinessProbe:
  httpGet:
```

- If you want to install more than one client library then separate each with commas.
- For example:

```
env:
  - name: APP_BASE_URL
    value: http://20.232.216.163
  - name: INSTALL_OPTIONAL_LIBS
    value: "mysql,oracle,postgresql"
```

- Then apply the configuration from pvclaim\_aks by running this command:
- kubectl apply -f pvclaim\_aks.yaml

- Then apply the configuration in the deployment file:
- kubectl apply -f deployment.yaml

- Next apply the configuration in hpa by running this command for setting up auto scaling for the kubernetes horizontal pod auto scalar and then I created all the services running this command:

- kubectl apply -f service.yaml.
- You should see a message like this:

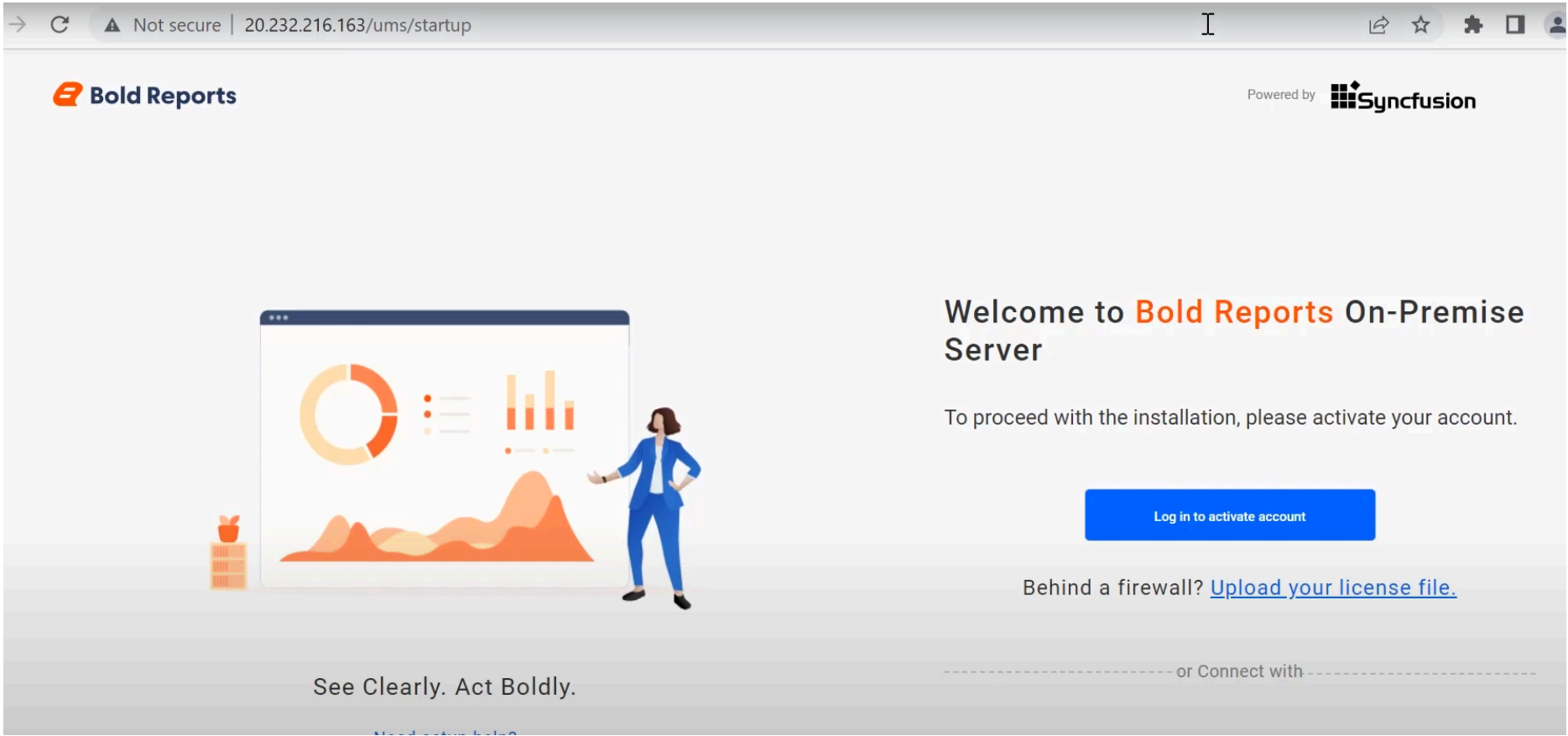


```
service/id-web-service created
service/id-api-service created
service/id-ums-service created
service/reports-web-service created
service/reports-api-service created
service/reports-jobs-service created
service/reports-reportservice-service created
```

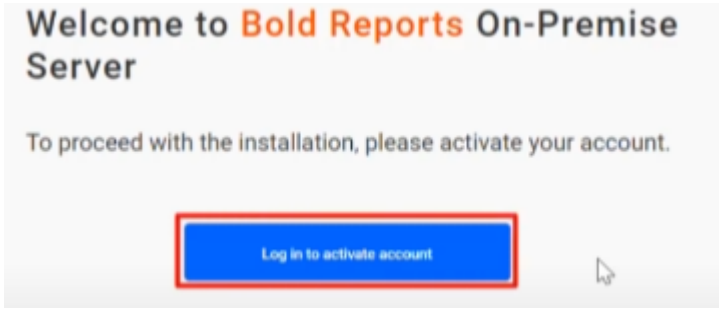
- Once all the deployment files are applied, we need to check the pod status. I run this command:
- `kubectl get pods -n bold-services`

NAME	READY	STATUS	RESTARTS	AGE
id-api-deployment-6dd975d49b-8vvq9	1/1	Running	0	3m58s
id-ums-deployment-bf86976d6-4v2hm	1/1	Running	0	3m57s
id-web-deployment-7f6bdc9d97-jbfgm	1/1	Running	0	3m59s
reports-api-deployment-fd9f646d8-p5pw7	1/1	Running	0	3m56s
reports-jobs-deployment-678cf75958-ttjjx	1/1	Running	0	3m55s
reports-reportservice-deployment-cfc6bbdd6-g7qlj	1/1	Running	0	3m54s
reports-web-deployment-58dbf9f9c-29b46	1/1	Running	0	3m57s

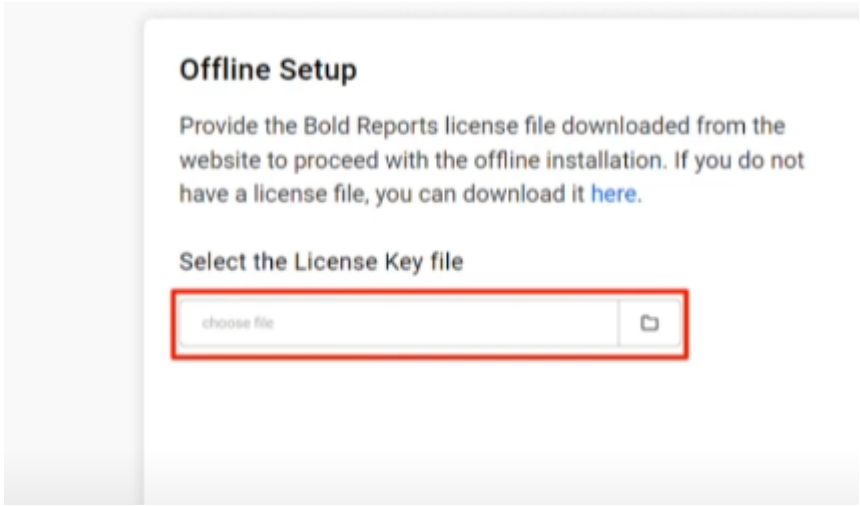
- Then Open the browser and navigate to the domain or IP address



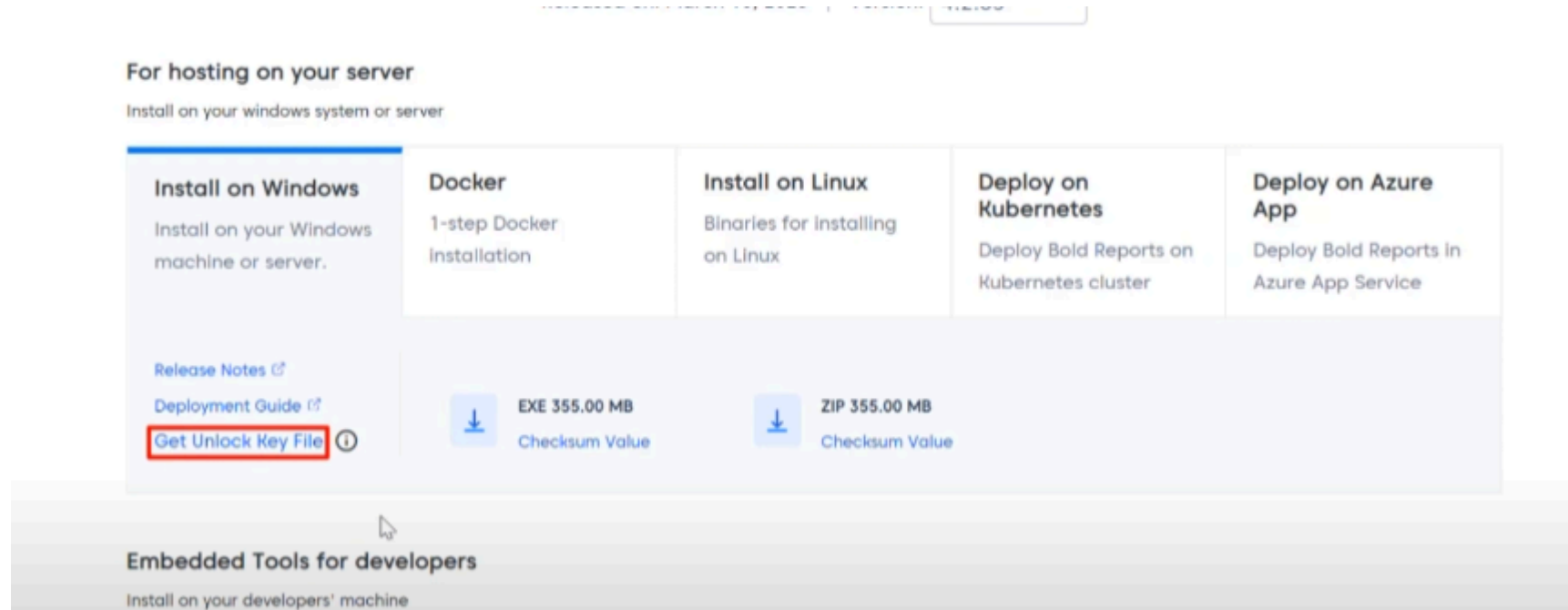
- We need to activate the bold reports account either by using online credentials



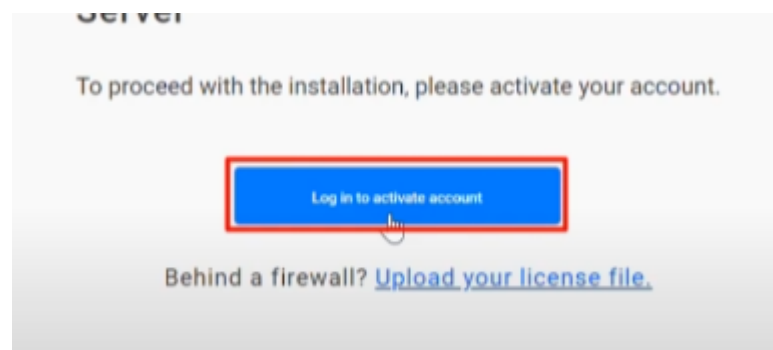
- Or by uploading the offline unlock key



- You can download the unlock key from your bold reports accounts page



- In this example We are going to activate it by using online credentials
- Click on :



- And enter my bold reports credentials

The screenshot shows a user registration form with the following fields: 'First name' (filled with 'DharoonFaizel'), 'Last name' (filled with 'Louis'), 'Username' (blurred), 'Email address' (blurred), 'Password' (filled with asterisks), and 'Confirm password' (filled with asterisks). Each field has a small eye icon to toggle visibility.

- Then we can configure the database to store the report server data.

The screenshot shows a database configuration screen. Under the 'Server type' section, there is a dropdown menu with 'Microsoft SQL Server / Azure SQL' selected (highlighted with a red box). Below this, there are options for 'PostgreSQL' and 'MySQL'. Under the 'Authentication type' section, there are two radio buttons: 'SQL authentication' (selected) and 'Windows authentication'. Below 'SQL authentication', it says 'Use SQL username and password to set up Enterprise'. Below 'Windows authentication', it says 'Please refer to this documentation to configure'.

- And provide the necessary information

**SIMPLE** **ADVANCED**

Server type  
PostgreSQL

Server name

Port number  
5432

Specify the TCP port number that the server is listening for connections. The default port number is 5432.

Maintenance Database  
postgres

The maintenance DB is a default database for users and applications to connect to. On PostgreSQL 8.1 and above, the maintenance DB is normally called 'postgres', and on earlier versions, 'template1'.

Username

- Next click on :

Refer to [this](#) documentation for connection string parameters.

☐ Enable SSL

Enable this if the database server is SSL configured. It uses SSL encryption for all data transmitted between the client and the server.

- And click on [next]



## Registering your site...

Sit back and relax. We'll let you know when your setup is ready to go!

