Diffusion Cluster AWS Deployment guide

Before You Begin

It's assumed that you have:

- an AWS account,
- an EC2 key pair (optional)

System Requirements

The amount of CPU and system memory your Diffusion Server requires depends on the number of client connections, data topics, and the number of messages sent to and from the Diffusion Server. The free demo version supports up to 5 client connections.

For more information about required system resources, such as vCPUs, memory, and storage, see the resource calculator on www.diffusiondata.com or contact the DiffusionData field engineering team.

Step 1: Configure the Cluster

To configure your Diffusion Cluster, do the following:

- Enter the **Stack name**.

www.diffusiondata.com

- **DashboardAccessCIDR**: you can specify an IP address or a range of IPs from which access to the Dashboard is allowed.

- Under **DashboardPwd**, choose the password for the administrative account to access the Dashboard. Please note that the user name for the account is "admin".

- **DataSourceAccessCIDR**: This parameter specifies the IP or IP range to grant access to the Diffusion Cluster (to send and receive data).

- Under the **Instance type**, choose an instance that meets your resource needs (for example, for evaluation purposes, you might choose t4.micro). For information about the resources provided by the various instance types, see Amazon EC2 Instance Types.

- Under **KeyName**, enter your authentication key pair. This key pair is used to log in to the EC2 instance.

- Select the **Region** where you want to deploy the Diffusion Cluster.


- Click **Submit** to create the Diffusion Cluster.

Step 2. Login to Diffusion Server Console

- This is the final setup step. Please open your favourite web browser and navigate to http://<Public IPv4 DNS>:8090. Please note, that the Diffusion server installation does not come with the preinstalled SSL certificate so, you'll see the following warning message from the browser:
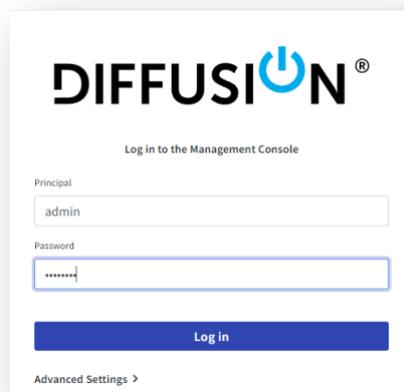
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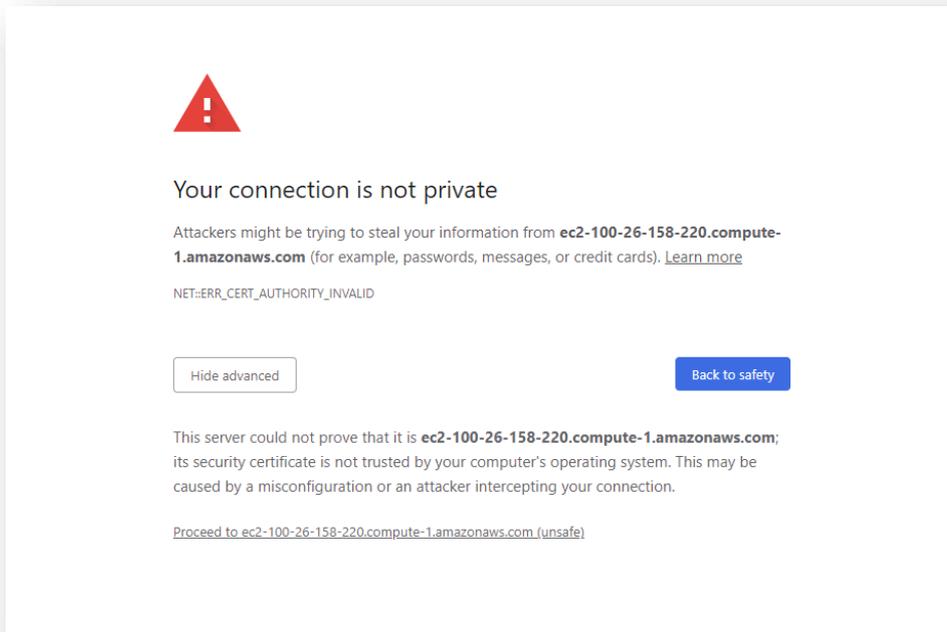
- As soon as you accept that warning you'll be navigated to the following page:
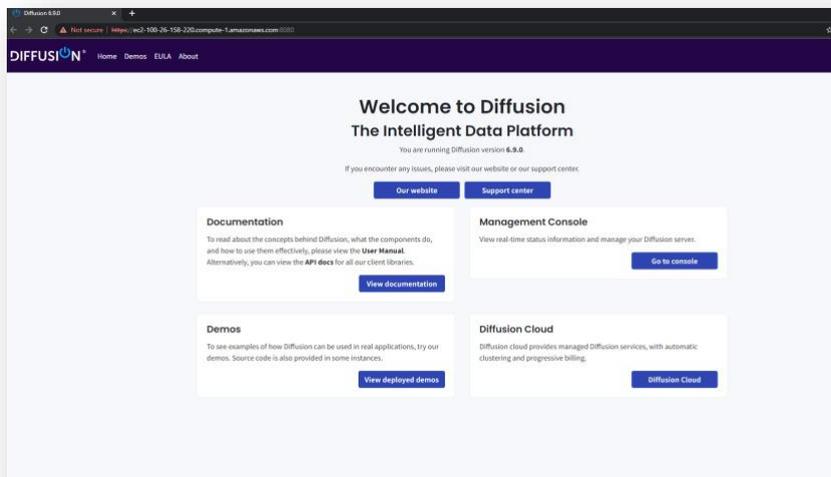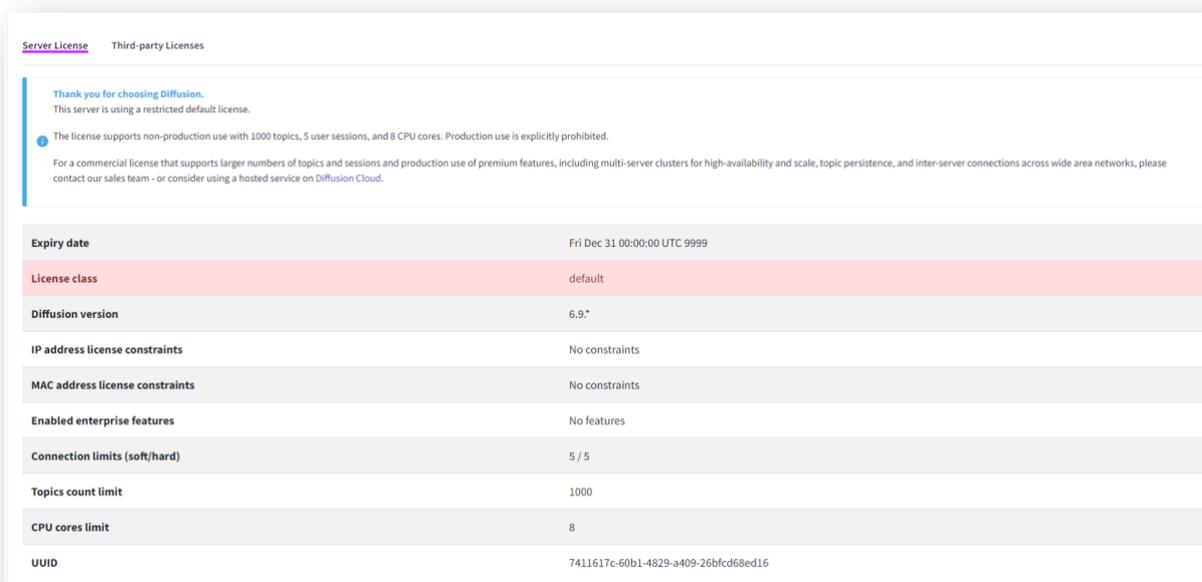
- Click on the "Go to console" button and enter the credentials you've created on the previous step to the Login dialog.

- Finally, navigate to the License section and check the details of your licence:

You can update your Diffusion™ license file without having to restart the Diffusion server. Copy the new license file (*license.lic*) over the existing file in the ***diffusion_directory/etc*** directory and ensure that the timestamp is updated. Diffusion checks the timestamp of the ***license.lic*** every minute. If the license file has been updated, Diffusion reloads it and logs this to stdout. Or alternatively you can use Diffusion Console to upload new license file:

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