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What is NGINX?

NGINX is a free, open-source, high-performance web server with a rich feature set, simple configuration, and low resource consumption that can also function as a reverse proxy, load balancer, mail proxy, HTTP cache, and many other things.

How NGINX is working?

NGINX allows you to hide a server application's complexity from a front-end application. It uses an event-driven, asynchronous approach to create a new process for each web request, with requests handled in a single thread.

Using NGINX with FLOWX Designer

The NGINX Ingress Controller for Kubernetes - `ingress-nginx` is an ingress controller for Kubernetes using NGINX as a reverse proxy and load balancer.

Ingress allows you to route requests to services based on the host or path of the request, centralizing a number of services into a single entry point.

The **ingress resource** simplifies the configuration of **SSL/TLS termination**, **HTTP load-balancing**, and **layer routing**.

For more information, check the following section:

» [Using NGINX as a K8S ingress controller](#)

Integrating with FLOWX Designer

FLOWX Designer is using NGINX ingress controller for the following actions:

1. For routing calls to plugins
2. For routing calls to the **FLOWX Engine**:
 - Viewing current instances of processes running in the FLOWX engine
 - Testing process definitions from the FLOWX Designer - route the API calls and SSE communications to the FLOWX engine backend
 - Accessing REST API of the backend microservice
3. For configuring the Single Page Application (SPA) - FLOWX Designer SPA will use the backend service to manage the platform via REST calls

In the following section, you can find a suggested NGINX setup, the one used by FLOWX.AI:

» [Designer setup guide](#)

Installing NGINX Open Source

For more information on how to install NGINX Open Source, check the following guide:

» [NGINX Install Guide](#)

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