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# Prerequisites

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Components that are not included in the default delivery of the Predicate application, but are necessary for its operation.

## Kubernetes/OpenShift

A `k8s`-compatible cluster with the ability to create a separate namespace. In this namespace, there should be the ability to create a service account with CRUD rights for all basic types of objects. The minimum resource quota is `8CPU, 16Gb RAM, 100Gb disk space`. Additionally, a tool for managing Kubernetes applications - **Helm** - must be installed on the local machine. The cluster will also require:

- `NFS StorageClass` - RWM storage class in Kubernetes that uses an NFS server.
- `Ingress Controller` - a controller that provides access to Kubernetes services from outside.

Installing Kubernetes on minikube

## Keycloak

Service for authorization and authentication **Keycloak**.

It is recommended to use the `codecentric` chart. Instructions for installing and configuring the service can be found [here](#).

## S3 Storage

S3 storage (Minio or Yandex Object Storage) - a storage where metric results are saved. This storage must allow the creation of a separate bucket, with a minimally recommended size of `100Gb`. To work with this bucket, a service account with the role of `storage.editor` or `storage.admin` (GET/UPDATE/DELETE objects) is required.

