Introduction

A Software Bill of Materials (SBOM) is a detailed list of all the components, libraries, and dependencies used within a software project.
In Tiki, generating an SBOM improves **security**, **compliance**, and **transparency**, by helping administrators and developers to know exactly what makes up their installation.

Why SBOM is important for Tiki

There are several reasons why generating and maintaining an SBOM is valuable:

- **Security**: Quickly identify vulnerabilities in third-party dependencies when new CVEs (security advisories) are published.
- **Compliance**: Ensure that all open-source licenses used within Tiki are compatible with your project's legal requirements.
- **Transparency**: Provides a clear picture of all components included in a Tiki installation for audits or enterprise use.
- **Maintenance**: Helps developers track dependency changes across upgrades and patches.

How to generate SBOM in Tiki

Tiki provides a built-in command to generate an SBOM.
Run the following from the root of your Tiki installation:

```
php console.php sbom:generate
```

1.1. Authentication

When you run this command, Tiki will ask you to enter your local credentials.
Use your **localhost Tiki administrator username and password**.

Once authenticated, the process will begin and Tiki will analyze all installed components.

1.2. Output

After completion, a *.json* file will be generated in your Tiki directory.

- The file will contain a structured Software Bill of Materials (SBOM).
- All logs from the process will also be recorded in the output file.
- By default, the format is JSON and can be validated or imported into SBOM tools such as SPDX or CycloneDX.

Example output file:
sbom-output.json

Next steps

After generating your SBOM, you can: