# Problem Statement:

You have joined Inversion Cycles Co. as their new Cloud DevOps Engineer. The company has recently updated their website. Your very first job is to check that their website has no loopholes that a hacker can exploit to gain access to sensitive information. You need to validate all the third-party software used to build the application. The company has provided you access to their SonarCloud account and WhiteSource. Create a report to show your findings.

# Steps to Perform:

* Create an ASP.NET solution locally with third-party libraries
* Check-in the code to Azure Repos
* Enable SonarCloud and WhiteSource in the Azure pipeline
* Deploy the code through the Azure pipeline
* Check the outcome from SonarCloud and WhiteSource
* The report will show all the issues identified by SonarCloud and WhiteSource

# Solution

1. Set up your local environment:

- Install Visual Studio on your local machine.

- Clone the ASP.NET solution from Azure Repos.

2. Add third-party libraries:

- Identify and add some third-party libraries to the ASP.NET solution.

- Build and test the solution locally to ensure everything works as expected.

3. Set up SonarCloud:

- Create a new account on SonarCloud if you don't have one already.

- In the Azure pipeline, add a task to run SonarCloud analysis on your code.

- Configure the SonarCloud analysis to run on your solution during the pipeline execution.

4. Set up WhiteSource:

- Create a new account on WhiteSource if you don't have one already.

- In the Azure pipeline, add a task to run WhiteSource analysis on your code.

- Configure the WhiteSource analysis to run on your solution during the pipeline execution.

5. Deploy the code:

- Configure the Azure pipeline to deploy your code to a test environment.

- Run the pipeline and verify that the code has been deployed successfully to the test environment.

- Check the outcome from SonarCloud and WhiteSource to see if there are any issues identified.

6. Generate the report:

- Collect the results from SonarCloud and WhiteSource.

- Create a report that includes the issues identified by SonarCloud and WhiteSource.

- Share the report with the team to take necessary actions to fix the issues.

By following the above steps, you can create a report to show your findings and make sure that the website is free from vulnerabilities that hackers can exploit to gain access to sensitive information.