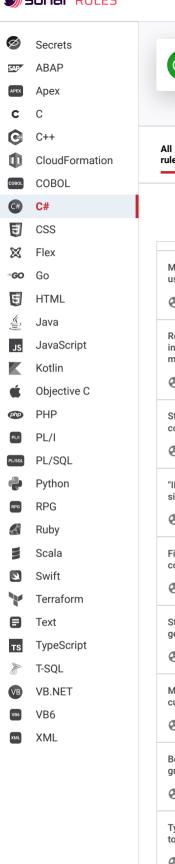
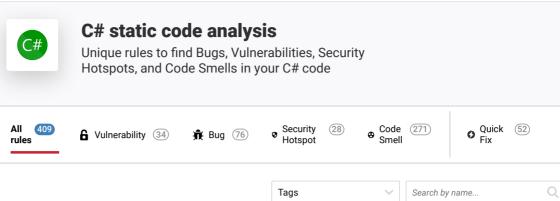
Analyze your code

injection cwe sans-top25 owasp





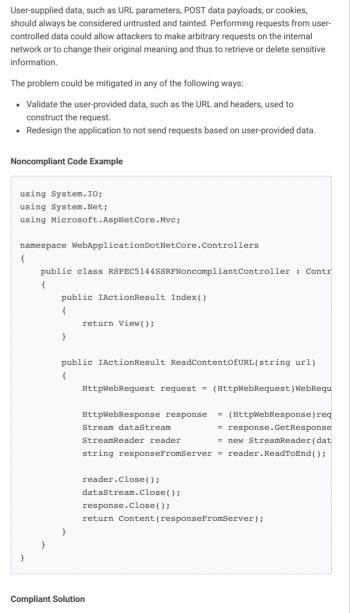


Server-side requests should not

be vulnerable to forging attacks



Code Smell



```
using System.Linq;
using System.IO;
using System.Net;
using Microsoft.AspNetCore.Mvc;
```

Unused type parameters should be removed

Code Smell

Parameters should be passed in the correct order

Code Smell

Two branches in a conditional structure should not have exactly the same implementation

Code Smell

Unused assignments should be removed

Code Smell

```
namespace WebApplicationDotNetCore.Controllers
    public class RSPEC5144SSRFCompliantController : Controll
        public IActionResult Index()
            return View();
        private readonly string[] whiteList = { "www.example
        public IActionResult ReadContentOfURL(string url)
            // Extract the hostname from the \ensuremath{\mathsf{URL}}
            URI remoteUrl = new Uri(url);
            string remoteHost = remoteUrl.Host;
            // Match the incoming URL against a whitelist
            if (!whiteList.Contains(remoteHost))
                 return BadRequest();
            }
            HttpWebRequest request = (HttpWebRequest)WebRequ
            HttpWebResponse response = (HttpWebResponse)req
            Stream dataStream = response.GetResponse
StreamReader reader = new StreamReader(dat
            string responseFromServer = reader.ReadToEnd();
            reader.Close();
            dataStream.Close();
            response.Close();
            return Content(responseFromServer);
    }
}
```

See

- OWASP Top 10 2021 Category A10 Server-Side Request Forgery (SSRF)
- OWASP Attack Category Server Side Request Forgery
- OWASP Top 10 2017 Category A5 Broken Access Control
- MITRE, CWE-20 Improper Input Validation
- MITRE, CWE-641 Improper Restriction of Names for Files and Other Resources
- MITRE, CWE-918 Server-Side Request Forgery (SSRF)
- SANS Top 25 Risky Resource Management

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