# Web Application Security



Web application security (also known as Web AppSec) is the idea of building websites to function as expected, even when they are under attack. The concept involves a collection of security controls engineered into a Web application to protect its assets from potentially malicious agents.

## Why web applications security is important?

- In order to be safe from hackers and cyber-thieves from accessing sensitive information.
- For the reduction of business risk, the spread and escalation of malware.
- Without it, attacks may happen on the other websites too.
- If a hacker is successful, attacks can spread from computer to computer, making it difficult to find the origin.

## How do keep it secured?

## Use Strong Passwords

- make passwords at least 8 characters with a mixture of lower-case letters, capitals, numbers, and a special character like an exclamation mark is highly recommended.
- Don't make your password a familiar phrase.

#### Two-Factor Authorization.

• It provides security as in if a person knows id and password and he/she try to login, in that case he/she needs to authenticate with origin devices it is logged in either by text, phone call, or even through yes or no.

## Always Use Secure Networks

• If the address starts with HTTPS, then you know it is secured (by the added "s"). If it doesn't, then you either have the wrong login page or it is possibly a spoof (fake) website.

#### Use More Than One Email Address

 The email you use for your personal banking might be more secure if you use a different email for things like Facebook, Twitter, and even EBay. If someone were to hack into one then they would not automatically have access to the others.

## ❖ Be Cautious About Posting Your Email Address Online

This is simply an invitation for spam if nothing else, but it also opens up a
message of "Hey, hack me. Here's my email." Avoid posting your email
address on forums, review sites, and message boards where spammers
can easily pick up your address.

# **♣**Burp Suite Enterprise Edition



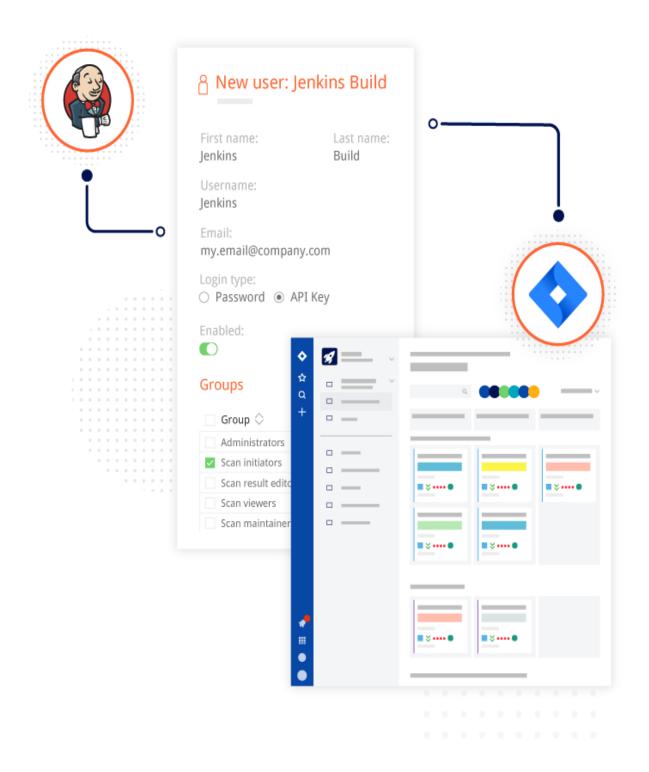
# Integrate security with development



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Integrated security is a security strategy leverages a set that common configurations, rules, policies and practices to secure all of an organization's workloads. In other words, integrated security provides a unified solution for every type of service that you run. Its a methodology (often associated with DevSecOps) for creating software that

incorporates security into every phase of the software development life cycle (SDLC).



- ❖ Bake security into software development processes
  - A wide array of integrations (e.g., CI/CD, bug-tracking systems, and a rich API) means you can bake security into your software development.
- ❖ Security technology, accessible for all
  - Get fast, easily-digested feedback on vulnerabilities, tailored to you.

- Collaborate with AppSec teams to fix security bugs
  - Native Jira integration, featuring ticket options for severity and confidence level triggers, means developers can collaborate with teams to remediate critical issues.

## Integration Features

- All major CI/CD platforms
- Integrate with platforms including Jenkins and TeamCity. See vulnerabilities in your development environment.
- Bug tracking systems
- Track issues with Jira and other systems. Auto ticket generation, severity / confidence level triggers, and unlimited boards.
- API-driven workflow
- Integrate with your existing systems to initiate scans and obtain results, via the REST API.
- GraphQL API
- Initiate, schedule, cancel, update, and work through your scans, to get the exact data you need, with a GraphQL API.
- Vulnerability management platforms
- Integrate scanning and security reporting into your own management and orchestration systems.
- ❖ Role based access control
- Multi-user, role-based functionality for site hierarchy, scan detail and reporting. Give everyone control.
- ❖ Burp extensions
- Tailor Burp Scanner to your exact requirements, by writing your own extensions, or by downloading them from the BApp Store.
- Compatible configurations
- Manually integrate configurations from Burp Suite Pro, directly into your fully automated Enterprise environment.

- Multiple deployment options
- Choose from a standard deployment with an interactive installer, or a Kubernetes deployment using a Helm chart.

Note: Jenkins, REST API, GraphQL API, Tailor burp, BApp, Kubernetes, Helm Chart -will be explained tomorrow.