Scrum Agile Life Cycle Stage	Recommended Security Processes
Product Backlog Creation	 Incorporate security requirements into user stories (e.g., threat modeling, OWASP guidelines). Identify potential security risks for each feature during initial backlog discussions. Include acceptance criteria for secure coding practices and compliance with industry standards (e.g., ISO/IEC 27000).
Sprint Planning	 Assign dedicated security tasks to developers during sprint planning. Review and prioritize security-related stories, tasks, and technical debt. Engage security experts in planning sessions to address identified vulnerabilities.
Sprint Execution/Development	 Implement secure coding practices based on secure design patterns and frameworks. Conduct regular static and dynamic code analysis during development. Perform peer reviews with a focus on identifying potential vulnerabilities.
Daily Stand-ups	 Include updates on security-related tasks and risks as part of daily discussions. Foster team awareness of ongoing security concerns and evolving threats.
Sprint Review	 Demonstrate and validate security implementations in deliverables during reviews. Gather feedback on implemented security controls and refine for the next sprint. Test user stories against predefined security acceptance criteria.
Sprint Retrospective	Review and analyze the effectiveness of security

	 practices applied during the sprint. Identify areas for improvement in secure development processes. Update security checklists and team training based on lessons learned.
Release Planning	 Perform end-to-end penetration testing, vulnerability scanning, and compliance validation before each release. Conduct risk assessments to determine the impact of residual vulnerabilities. Include incident response and rollback strategies in the release plan.
Post-Release Maintenance	 Monitor the application for vulnerabilities and performance issues using security tools. Continuously update the product based on security patches and updates. Regularly conduct threat modeling and update risk assessments for evolving threats.

(Sharma & Bawa, 2020)

References

Sharma, A. & Bawa, R. K. (2020) Identification and Integration of Security Activities for Secure Agile Development. *International Journal of Information Technology*.