

PASTA worksheet

Stages	Sneaker company
I. Define business and security objectives	<p>Make 2-3 notes of specific business requirements that will be analyzed.</p> <ul style="list-style-type: none">• <i>Definitely, it will process transactions.</i>• <i>Definitely, it does a lot of back-end processing because it will serve customers.</i>• <i>Yes, the app should be compliant with GDPR.</i>
II. Define the technical scope	<p>List of technologies used by the application:</p> <ul style="list-style-type: none">• Application programming interface (API)• Public key infrastructure (PKI)• SHA-256• SQL <p>Application programming interface (API) should be prioritized over the other technologies because of its usefulness. To break it down, it can help customers enjoy some particular services and it can cause customer retention if it is a quality one.</p>
III. Decompose application	Sample data flow diagram
IV. Threat analysis	<p>List 2 types of threats in the PASTA worksheet that are risks to the information being handled by the application.</p> <ul style="list-style-type: none">• <i>Phishing.</i>• <i>Brute force attack.</i>
V. Vulnerability analysis	<p>List 2 vulnerabilities in the PASTA worksheet that could be exploited.</p> <ul style="list-style-type: none">• <i>Open-source code.</i>• <i>No network firewall.</i>
VI. Attack modeling	Sample attack tree diagram
VII. Risk analysis and	<p>List 4 security controls that you've learned about that can reduce risk. Password policies, Frequent application updates, Use of</p>

impact	Anti-virus software, Use of VPN.
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