

PASTA worksheet

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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>App must process financial transactions</i>• <i>Users can make member profiles internally/by connecting external accounts</i>• <i>Must be in compliance with PCI-DSS</i>
II. Define the technical scope	<p>List of technologies used by the application:</p> <ul style="list-style-type: none">• <i>Application programming interface (API)</i>• <i>Public key infrastructure (PKI)</i>• <i>SHA-256</i>• <i>SQL</i> <p>APIs facilitate exchange of data between customers, employees, and partners, so they are a top priority. They handle sensitive information while connecting various users and systems together. Details such as which APIs are being used, however, should also be considered before prioritizing one technology over another.</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>Injection</i>• <i>Session hijacking</i>
V. Vulnerability analysis	<p>List 2 vulnerabilities in the PASTA worksheet that could be exploited.</p> <ul style="list-style-type: none">• <i>Lack of prepared statements</i>• <i>Broken API token</i>
VI. Attack modeling	Sample attack tree diagram

VII. Risk analysis and impact	List 4 security controls that you've learned about that can reduce risk. SHA-256, Incident Response Procedures, Password Policy, Principle of Least Privelege
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