

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>The app will process transactions</i>● <i>User can sign up account internally or externally</i>● <i>PCI-DSS should be followed</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>API will send and also receive data of the customers, so it should be evaluated first. When using API a lot of sensitive data is exchanged. So, it has a high attack surface which gives high chances to be vulnerable.</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>SQL 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>Weak login credentials</i>● <i>Lack of prepared statements</i>
VI. Attack modeling	Sample attack tree diagram
VII. Risk analysis and impact	<p>List 4 security controls that you've learned about that can reduce risk.</p> <p>SHA-256, password policy, least privilege, input validation</p>