

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>Will the app process transactions?</i> <i>App must process the financial transactions</i> • <i>Are there industry regulations that need to be considered?</i> <i>The regulations PCI DSS needs to be considered in this app</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>Write 2-3 sentences (40-60 words) that describe why you choose to prioritize that technology over the others.</p> <ul style="list-style-type: none"> • <i>API and SQL should be prioritized to secure the data eco system. A lot of sensitive data is to be handled by various users and systems.</i>
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>Lack of prepared statements</i> • <i>Weak Login Credentials</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. Strong password with MFA, Security awareness training, Incident Response plan, IDS(Intrusion Detection System) alerting administrators to the suspicious activity in real-time.</p>