

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>Supports transactions between sellers and shoppers</i> • <i>Integrates backend services for security and data</i> • <i>Payment handling requires PCI DSS and adherence to relevant national and international regulations</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>Priority should be given to the API and SQL, as these components of the tech stack comprise the communication methodologies and protocols between the application and backend services.</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>Broken authentication pathways (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>Broken API token</i> • <i>No prepared statement implementation</i> • <i>Default network configuration</i>
VI. Attack modeling	Sample attack tree diagram
VII. Risk analysis and impact	<ul style="list-style-type: none"> • <i>MFA</i> • <i>Principle of least privilege</i> • <i>SHA-256</i>

	<ul style="list-style-type: none">• Configuration auditing
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