Identify the key business use cases for the application/product	Α	R	R	Α
STAGE 2 - TECHNICAL SCOPE - Est. New TM = 3-4 hours Est. Repeat TM = 1-3 hours	- 1	- 1	С	Α
Enumerate software applications/database in support of product/application	- 1	- 1	С	Α
Identify any client-side technologies (Flash, DHTML5, etc.)	- 1	- 1	С	Α
Enumerate system platforms that support product/application	- 1	- 1	С	Α
Identify all application/product actors	- 1	- 1	С	Α
Enumerate services needed for application/product use & management	- 1	- 1	С	Α
Enumerate 3rd party COTS needed for solution	- 1	- 1	С	Α
Identify 3rd party infrastructures, cloud solutions, hosted networks, mobile devices	- 1	- 1	С	Α
Obtain business objectives for product or application	1	1	С	Α
STAGE 3 - APPLICATION DECOMPOSITION - Est. New TM = 8 hours Est. Repeat TM = 4 hours	ı	ı	I	Α
Perform data flow diagram of application environment	1	1	1	Α
Define application trust boundaries/trust models	1	1	1	Α
Enumerate application actors	- 1	1	1	Α
Identify any stored procedures/batch processing	- 1	1	1	Α
Enumerate all application use cases (ex: login, account update, delete users, etc.)	- 1	- 1	1	Α
STAGE 4 - THREAT ANALYSIS - Est. New TM = 6 hours Est. Repeat TM = 2 hours	1	- 1	R/A	Α
Gather/correlate relevant threat intel from internal/external threat groups	1	1	R/A	Α
Review recent log data around application environment for heightened security alerts	_	-	- 1	Α
Gather audit reports around access control violations	_	- 1	- 1	Α
Identify probable threat motives, attack vectors & misuse cases	- 1	- 1	1	Α
STAGE 5 - VULNERABILITY ASSESSMENT - Est. New TM = 12 hours Est. Repeat TM = 6 hours	I	- 1	ı	Α
Conduct targeted vulnerability scans based upon threat analysis	_	-	_	Α
Identify weak design patterns in architecture	_	_	_	Α
Review/correlate existing vulnerability data	1	1	1	Α
Map vulnerabilities to attack tree	_	1	1	Α
STAGE 6 - ATTACK ENUMERATION - Est. New TM = 10 hours Est. Repeat TM = 5 hours	I	I	I	Α
Enumerate all inherent and targeted attacks for product/application	1	T	1	Α
Map attack patterns to attack tree vulnerability branches (attack tree finalization)	_	_	_	Α

APPLICATION THREAT MODELING ACTIVITIES per STAGE

STAGE 1 - DEFINE BUSINESS OBJECTIVES - Est. New TM = 2-4 hours | Est. Repeat TM = < 1 hour

Define a risk profile or business criticality level for the application

Conduct targeted attacks to determine probability level of attack patterns

STAGE 7 - RESIDUAL RISK ANALYSIS - Est. New & Repeat TM = 5 days (inc. countermeasure dev.)

Review application/product risk analysis based upon completed threat analysis

Reform threat analysis based upon exploitation results

Re-evaluate overall application risk profile and report.

List recommended countermeasures for residual risk reduction

Obtain business objectives for product or application

Identify regulatory compliance obligations

BU/Product Groups

ARC

QA

R/A

MGT

PMO

Corporate Functions				3rd	3rd Party			
SYS	SOC	RL	PC	SA	EA	СТО	VA	PT
- 1	-	-	R	I	- 1	R	-	_
1	-	1	_	_	1	1	_	_
1	-	- 1	R	-	1	1	_	_
1	-	- 1	С	- 1	- 1	R	_	_
1	_	_	I	-	1	1	_	_
1	-	- 1	_	ı	С	- 1	_	_
1	-	-	_	_	С	1	_	_
- 1	_	-	_	1	С	- 1	_	_
1	_	-	_	I	С	1	_	_
1	-	-	_	1	С	- 1	_	_
1	_	-	_	I	С	- 1	_	_
1	-	-	_	- 1	С	- 1	_	_
- 1	-	-	_	- 1	С	- 1	_	_
1	-	1	_	I	С	- 1	_	-
С	_	1	-	-	С	-	_	-
С	_	_	_	-	С	-	_	_
С	-	_	_	_	С	_	_	_
С	_	_	_	_	С	-	_	-
С	_	_	-	_	С	_	_	_
С	-	_	-	-	С	-	_	-
С	С	-	-	-	ı	-	_	_
С	С	-	_	_	С	_	_	-
- 1	С	-	-	-	С	-	_	_
1	С	_	-	_	С	-	_	-
- 1	С	_	-	_	С	-		-
ı	С	I	-	-	ı	-	R/A	R
- 1	С	1	_	_	- 1	-	R	R
- 1	_	-	-	-	С	-	R	С
- 1	С	_	_	_	- 1	-	R/A	- 1
- 1	-	_	_	_	С	-	С	1
-	-	I	-	-	С	I	- 1	R/A
_	_	- 1	-	_	С	- 1	- 1	R/A
-	_	I	-	_	С	-		A
-	_		-	_	С	-		R/A
-	-	I	-	-	С	I		С
С	С	I	I	С	С	I		R
- 1	С	I	I	С	С	1		R
С	С	I	I	С	С	1		R
I		I	С	C	C	1	T	

MGT	Product Mgmt
PM0	Project Mgmt
BA	Business Analyst
ARC	Architect
SWE	Software Engineer
QA	Quality Assurance
SYS	SysAdmin
SOC	Security Operations
RL	IT Risk Leader
PC	Product Compliance
SA	Software Assurance
EA	Enterprise Architect
СТО	Administration
VA	Vuln Assessor
PT	Pen Tester
i .	

Corporate Functions

Office of the CTO Compliance Security (ISRM)

RACI Legend

Responsible Accountable Consulted (2 way) Informed (1 way)



VerSprite's Process for Attack, Simulation and Threat Analysis (PASTA) benefits stakeholders by assessing threats to your application environment by designing secure applications and deciding how to mitigate risks by applying risk mitigation strategies. Examples include Architects, Developers, Security Testers, Project Managers, Business Managers, and Information Risk Officers. **Learn more >>**