HNG: Attack Surface Explorer Personas

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# Development Engineer (Developer)

This role addresses the common concerns and tasks of developers who want to reduce the attack surface of their code.

### Roles

Product Development roles (and aliases) which are covered by this persona are:

* All Developers

### Primary goals

* Reduce Attack Surface of their own code
* Reduce open bug count assigned to them
* Reduce rework

### Common characteristics and related tasks

* Responsible for specific parts of the application and not entire application.
* Discover Attack Surface for specific code
  + Create small Attack Profiles
  + Discover the Attack Surface for specific functionality
  + Discover the Attack Surface for a specific code segment using ASESDK
* Analyze Attack Surface
  + Qualify Resources
  + Prioritize discovered flaws
  + Add Notes to Resources
* Get Security Guidance
  + Use Attack Surface Library
  + Use TeamMentor
* View bug reports and take action to reduce attack surface
  + View TFS Work Item
  + View Attack Profile
  + Analyze Crash dump

# Test Engineer (Tester)

This encompasses both security engineers and quality assurance engineers who want to explore the attack surface of the entire application or specific parts of the application.

### Roles

Product Development roles (and aliases) which are covered by this persona are:

* Quality Assurance (QA) Tester: *QA Engineer, Functional Tester*
* Black-Box QA Tester
* Security Tester: *Security Engineer*,
* Black-Box Security Tester: *Penetration Tester, Blackhat, Hacker*

### Primary goals

* Reduce Attack Surface in application areas they are responsible for.
* Find potential threats in application areas they are responsible for.
* Create good and useful bug reports for developers.

### Common characteristics and related tasks

* Mostly, but not always, responsible for specific parts of the application and not entire application.
* Discover Attack Surface for specific functionality
  + Create small Attack Profiles
  + Discover the Attack Surface for specific functionality
  + Discover the Attack Surface for a specific code segment using ASESDK
* Analyze Attack Surface
  + Run Threat Qualification Tests
  + Qualify Resources
  + Add Notes to Resources
* Get Security Guidance
  + Use Attack Surface Library
  + Use TeamMentor
* Submit bug reports to developers
  + Create TFS Work Item (optional: with attached Attack Profile & Crash dump)

### Common tasks

1. Creating Attack Profiles
2. Discovering the Attack Surface
3. Running Threat Qualification Tests
4. Qualifying Resources
5. Adding Notes to Resources
6. Creating TFS Work Items

# Risk Manager (RM)

This role is responsible for analyzing the application from a larger perspective and does not need to directly deal with low level technical information.

### Roles

Product Development roles (and aliases) which are covered by this persona are:

* Program Manager
* Development Manager
* Test Manager
* Security Manager

### Primary concerns

* Minimize Attack Surface of application.
* Analyze Attack Surface over various builds\versions.
* Report results

### Common characteristics and related tasks

* Responsible for large parts or entire application.
* Analyzes Attack Profiles created by Developers and Testers
  + View Live Reports
  + View Static Reports
  + View Dashboard
  + Merge Attack Profiles
* Measure Progress
  + Create Snapshots
  + Compare Snapshots
  + Use Product Risk Assessment Checklist
* Get Security Guidance
  + Use TeamMentor Guidance
  + Use Attack Surface Library
* Report Progress
  + Create & Export Reports
* Analyze Threats
  + Qualify Resources
  + View\Add Resource Notes

# Build Engineer (Builder)

This role is responsible for maintaining and using a build system to compile and build versions of the Test Application as well as perform simple verification tests to ensure that the build is acceptable for further testing.

### Roles

Product Development roles (and aliases) which are covered by this persona are:

* Build Engineer
* Build Manager

### Primary concerns

* Ensure product builds correctly
* Check if build meets minimum standards

### Common characteristics and related tasks

* Use SDK to create Attack Profile of new build
* Generate Report based on Attack Profile

# Engineer (Engineer)

This persona is used to collectively refer to Development and Test engineers wherever needed.

# ASE User (ASE User)

This persona is used to collectively refer to Development Engineers, Test engineers and PMs wherever needed.