

Black Duck® Defensics® Fuzzing - Implementation Packages

The services described in this Defensics Implementation Package (the "**Services**") are provided on by Black Duck® and/or its Affiliates (collectively, "**BD**") to Customer in accordance with the terms of this Defensics Implementation Package (this "**Services Package**") and are subject to the terms and conditions of the Purchasing Agreement and the End User License and Maintenance Agreement pursuant to which these Services have been purchased by Customer, or where no such agreement governing the Services to be provided is referenced therein, the most recent version of the End User License Agreement posted at <https://www.blackduck.com/company/legal/end-user-licenses.html> (collectively, the "**Agreement**"), and such terms and conditions are incorporated herein by reference. All capitalized terms that are not defined in this Defensics Implementation Package will have the meaning set forth in the Agreement.

1 Overview

Black Duck's Defensics Implementation Packages aid customers who are getting acquainted with Defensics. These packages provide a structured and guided approach to help implement, deploy, and adopt Defensics.

BD offers the Defensics Implementation Packages in QuickStart Plus, Pro, and Premier tiers, and include:

Description	Quick Start Plus	Pro	Premier
Defensics + license server installation (for 1 workstation/host)	✓	✓	✓
System under test ("SUT") setup	1 SUT	1 SUT	Up to 2 SUTs
Test suite interoperability config against SUT	1 Protocol	2 Protocols	5 Protocols
Workflow design	✓	✓	✓
Instructor-led training for end-users and administrators		✓	✓
Onboarding Runbook			✓

1.1 Package Delivery Success Criteria

The following table outlines the criteria BD measures for successfully completing the Defensics Implementation Package.

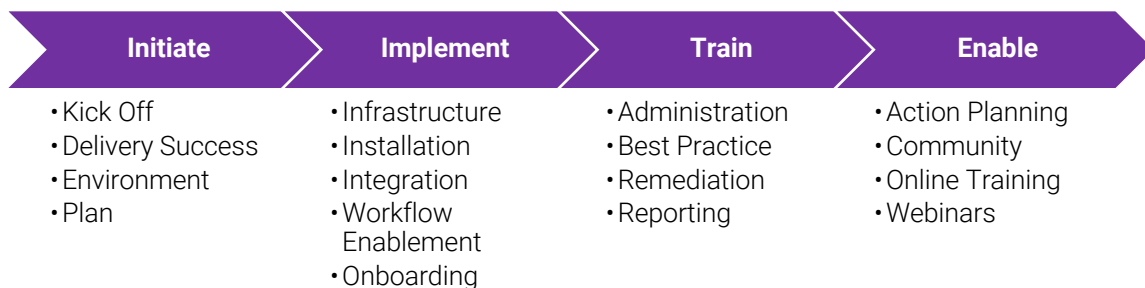
Item	Criteria
1	Defensics installation and configuration: - Defensics platform and purchased test suites installed on a dedicated machine. - FlexLM licensing server is installed.
2	Interoperability against the designated protocols and SUT(s) is achieved.
3	Defensics best practice guidance on in-scope protocols provided for the relevant users.
4	In-scope product features have been configured and demonstrated to the relevant users.

Item	Criteria
5	Customer administrators have been identified and trained in Defensics administrative functions.
6	Testing workflows reviewed, enabled, and tested for alignment with BD best practices and fulfillment of Customer's usage requirements.
7	Customer has been guided on post-implementation support, including self-paced online training, Community Portal, and technical support access.
8	An Action Plan to identify the completed tasks and recommended next steps have been reviewed and discussed with the Customer.

2 Approach

BD will assist Customer with the deployment of Defensics, the onboarding of the in-scope SUTs, and facilitate developer adoption. The overall process consists of four phases, as described below:

Figure 1: Phases



2.1 Initiate

The Initiate Phase will be conducted by BD and Customer in one or more meetings with the following objectives:

- **Kick-Off** – Review Customer's goals and organizational outcomes. Identification of Customer stakeholders for the following functions:
 - Project management;
 - Infrastructure network, database, and security;
 - Project team leader(s) – the owner of teams pioneering adoption;
 - Integrated application managers – owners of tools/systems which Defensics will integrate; and/or
 - Customer evangelists – members of the Customer's teams identified as the critical leaders for adoption and success,
- **Requirements** – Customer confirmation of what elements of the Services are applicable.
- **Success Criteria** - Confirm the success criteria as they relate to the scope:
 - Production-ready – Defensics is operational;

- Integrations (e.g., continuous integration/deployment (“CI/CD”)) (optional);
- Testing team – trained in fuzzing best practices, tool usage, and remediation; and
- Administrators – trained in configuration, tool usage, and maintenance.
- **Delivery Process** – Review the Defensics implementation process:
 - Target goals: short-term, near-term, long-term.
 - A sample project plan for the initial 90 days and
 - Establish customer champion and implementation point of contact.
- **Environment** – Establish the initial environmental needs.
 - Defensics and license server deployment method.
 - Any prerequisites or dependencies for computing platforms.
- **Plan** – Identify a plan of action designed to ensure Services are completed in a timely manner.

2.2 Implement

2.2.1 Infrastructure Deployment

BD will assist with the installation and configuration of Defensics per Customer's selected Implementation package:

Description	Quick Start Plus	Pro	Premier
Installation of one (1) Defensics instance	✓	✓	✓
Installation of FlexLM licensing server	✓	✓	✓
Installation of in-scope protocol-specific test suites	✓	✓	✓
Configuration of Defensics update mechanism	✓	✓	✓
Number of in-scope protocols	1 protocol	2 protocols	5 protocols
Number of SUTs	1 SUT	1 SUT	2 SUTs

Defensics instance – Defensics platform and protocol-specific test suites will be installed on a computing resource (i.e., host/workstation).

License Server – FlexLM license server software installation will provide the floating license server features for Defensics. A small-footprint server software for either Linux or Windows operating system (“OS”) platforms, can be installed on the same host with Defensics, or in a centralized manner, to a network location reachable for all Defensics users in an organization.

SUT (System Under Test) – Any fuzzing target with required network connectivity to a Defensics workstation.

CI/CD System – Defensics can be remotely controlled via a Representational State Transfer (“REST”) application program interface (“API”) or command-line execution to launch test runs as a part of a command line (“CL”) routine.

2.2.2 Protocol-Specific Test Suite Configuration

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BD will assist with the Implementation of the in-scope protocols for Defensics to meet the usage plans described in this Services Package:

Description	Quick Start Plus	Pro	Premier
Protocols deployed as part of this service package	1 protocol	Up to 2 protocols	Up to 5 protocols
Number of in-scope SUTs onboarded with this service package	1 SUT	1 SUT	2 SUTs
Test run configurations created for in-scope protocols	✓	✓	✓
Basic instrumentation	✓	✓	✓

Protocol-specific test suite configuration – BD will work with a representative testing team member of Customer to set up the in-scope protocols. Defensics test suites will be configured to achieve interoperability against the SUTs.

- Establish Defensics basic settings for communicating to SUT over a chosen protocol;
- Configure and test interoperability between Defensics and SUT;
- Work with customer if any SUT configuration is needed to achieve interoperability;
- Configure valid case instrumentation;
- Configure test run execution settings; and
- Timeouts, failure limits, packet capture etc.

2.2.3 Workflow Integration Phase

BD will assist with the integration of Defensics with Customer's tools and development processes. BD will complete the tasks listed in the table below for each in-scope application.

Description	Quick Start Plus	Pro	Premier
Workflow design		✓	✓
Test run automation	✓	✓	✓
Test run optimization		✓	✓
Advanced instrumentation			✓
Report generation and remediation		✓	✓

Workflow design – BD will assist with the integration of Defensics with existing testing processes and tools.

- Adopting the Defensics testing workflow according to best practices;
- Establishing best practices for reproduction and verification of the findings; and
- Transferring test run results and corresponding reproduction settings to relevant parties.

Test run automation

- Create 'test plan' settings files to save the working configurations to be shared with Defensics users inside the organization.
- Review possibilities for CL execution of a test suite with a pre-made 'test plan' configuration file.
- Review possibilities for CI/CD operation using Defensics REST API or Defensics Jenkins plugin.

Test run optimization

- Configure Defensics for optimal test execution performance, and
- Assist in creating prioritization and scheduling for testing multiple protocols on a SUT.

Advanced instrumentation

- Configure appropriate advanced instrumentation (SUT health check) methods according to the test scenario.
- Conduct a workshop to review Customer requirements and provide guidance on how to externally instrument the SUT (optional).

Report generation and remediation

- Review built-in reporting options.
- Review remediation package use cases
- Packaging test run results, logs, and other runtime information for easy transferability to other Defensics users in customer organization.

2.3 Train

Description	Quick Start Plus	Pro	Premier
Self-paced online training	✓	✓	✓
One (1) end-user training session (Up to 16 participants)		✓	✓

Documentation – BD will make available to Customer a report that will help guide Customer's use and maintenance of Defensics which will include:

- A report on how Defensics is deployed; and
- A review of the implementation steps carried out during engagement.

2.4 Enable

The Enable Phase ensures Customer is set up for success and is ready to begin using Defensics. At the start of this phase, BD will complete an Action Plan outlining the recommended activities for Customer's continued adoption of Defensics. The Action Plan provides Customer with:

- A summary of the steps completed during the execution of the service package;
- An assessment of Customer's maturity as it relates to BD's product maturity model;
- Recommended next steps to mature Customer's implementation; and
- Instructions to access:
 - The Community,

- Online product training, and
- Webinars.

BD will review the Action Plan with Customer for final sign-off and transition Customer to the BD Customer Success team.

3 Scope of Services

The scope of Services is limited to currently supported versions of Defensics.

4 Prerequisites and Dependencies

Entry Criteria – The following is a list of requirements and dependencies that Customer must meet to enable BD to perform the Services:

1. Provide a primary point of contact with a deep understanding of the requirements.
2. Verify that a valid license file for Defensics has been received.
3. Review the Documentation and secure hardware that meets the minimum requirements for Defensics.
4. Identify the project team(s) BD will work with for the Services.
5. Provide access to infrastructure, security, and network teams to assist with any hardware or networking issues.
6. Remote access for hands-on activities by BD staff is available.
7. Provide office space for the BD consultant if onsite.

If Customer does not meet the prerequisites and dependencies described above, and to the extent that BD is unable to perform the Services because of Customer's failure to meet those prerequisites and dependencies, BD will not be obligated to complete the affected Services.

5 Location of Performance of Services

Services will be delivered remotely.

Onsite delivery is available at an additional cost and requires a signed agreement. Travel and expenses for the onsite delivery will be billed separately based on actual costs.

6 Purchasing Agreement

The parties shall mutually agree to the schedule for the performance of the Services, subject to the terms of the Agreement and this Service Package. All Services described within this Services Package must be used within one year of the Start Date set forth in the Purchasing Agreement pursuant to which this Services were purchased. Unused services are non-refundable and non-transferable pursuant to the terms and conditions of the Purchasing Agreement. Performance of Services is subject to scheduling and Customer availability.

End of Services Package