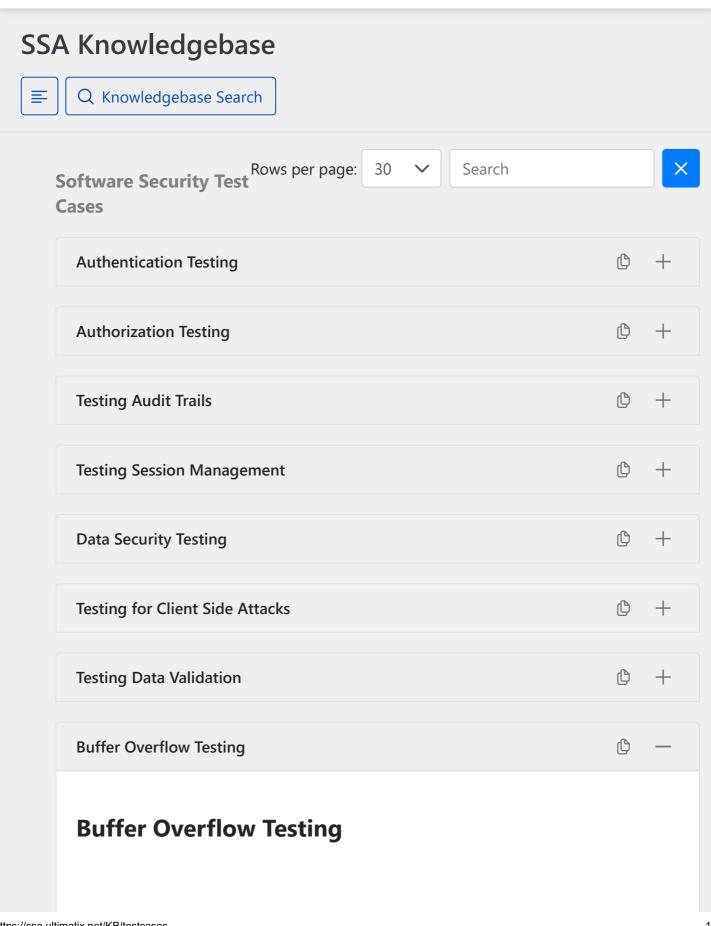
4/9/24, 5:29 PM SSA Portal







SSA Portal 4/9/24, 5:29 PM

\*\*1. Testing for stack and heap overflow\*\*

Objective: To test if someone can manipulate the program stack.

#### **Test case ID Description**

# Overflow.1.1 Validate if pointer based language or native code used into program

Overflow.1.2 Validate if unsafe or deprecated APIs are used

Overflow.1.3 Validate all array bounds and loops Array bounds are secure

Overflow.1.4 Validate if all memory allocation and de-allocation are proper

Overflow.1.5 checks for validating length for input

Validate if code is generated using Overflow.1.6 compiler switch for overflow check (if language support)

## **Expected results**

Program is written with managed code and no native calls are made Program do uses safe and latest

**APIs** 

All allocation and de-allocation are proper

Validate if validation library contain Validation library does length check along with other checks for all input

(i.e from user, network, file)

Program is written with managed code

Objective: To test if someone can manipulate integer errors

## **Test case ID Description**

Overflow.2.1 Validate if all casting operations are properly handled Validate if mathematical and conversion Overflow.2.2 operations are performed after checking variable type and length

## **Expected results**

All casting operations are handled properly Mathematical and conversion operations are performed securely

\*\*3. Testing for format string\*\*

Objective: To test if unfiltered input is used into format string parameter into functions

#### **Test case ID Description**

Overflow.3.1 Validate if all inputs to formatting functions are checked Overflow.3.2 Check if all inputs are validated before logging

#### **Expected results**

All inputs are validated before used All inputs are validated before logging

# **Configuration Testing**





# **Denial of Service Testing**



<sup>\*\*2.</sup> Testing for integer overflow\*\*