



ADEMIZE SOLUTIONS

# Course Outline

LEARN . GROW . SUCCEED



ADEMIZE.COM

TRAINING@ADEMIZE.COM

945-241-5869



# Welcome to our Course

Basics of Security Testing Terminologies involved in Security Domain Top OWASP principles Cross site Scripting XX's examples Cookies Importance Danger with stealing of cookies Session Hijacking Cross site forgery Attacks Parameter Tampering Methods to Intercept requests Account Management Password security guidelines Brute force mechanism Importance of Client-side validations.



TRAINING@ADEMIZE.COM

# What you will learn in this Course

- > You will understand the Importance of Session Hijacking Mechanism and their confidential data use.
- > You can investigate application behavior with Parameter Tampering and Brute force attacks.
- > You will get the knowledge of all basics with Http that might cause attacking malicious inputs.
- > Detect Request Forgery Designs if present any in Web applications.



## THE KEY TAKEAWAYS FOR THE COURSE

- ✓ Always be learning
- ✓ Know that you don't know
- ✓ Ask for Help if necessary
- ✓ There's always a solution



# Course Outline

## Introduction to Security Testing

-> Why security Testing gaining Importance day by day!

## Security Testing Basic Terminologies

-> What is Http and Https?

-> How can we avoid Man in middle attacks?

-> Http Methods overview in talking to servers.

-> Fiddler Demo- Monitoring Network traffic.

-> Understanding Fiddler to intercept requests.

-> Material for Reference.

## XSS - Cross Site Scripting Vulnerability Testing

-> What is XSS? How it can damage Web sites

-> Detecting XSS Vulnerability for Websites - 1

-> Detecting XSS Vulnerability for Websites – 2

-> ByPassing Client Validation to perform XSS

-> Encoding all the inputs to avoid Attacks

-> Types of Attack - Reflected XSS

-> Types of Attack - Persistence XSS

-> How to handle cross site scripting in IE browser

-> Material for Reference



# Course Outline

## Importance of Cookies and their role in Security

- > What are cookies and where are they stored
- > Session cookie sensitive data Threats
- > How can we stop Cookies hijacking
- >Methods to Prevent cookie steal -Secure Attribute
- > Preventing cookies steal -Http Attribute flag
- > Domain and path attribute to restrict cookies
- > Setting Time period for Sessions- Security Safety Tip
- > Material for Reference

## Session Hijacking and Cross Site Forgery Attacks

- > What is CSRF? How can it cause a threat?
- > Session Hijacking with illegal requests.
- > Avoid Cross Site forgeries with Token Mechanism.
- > Checklist for Pen Testers to check CSRF Attacks.
- > Material for Reference.

## Parameter Tampering to steal sensitive data

- > Different sources to intercept requests.
- I-> Importance of having Server-side Validations.
- > Intercepting requests with a fiddler tool.
- > Material for Reference.

## Account Security

- > Steps to be taken for Password setting.
- > List of Hacking Passwords and Precautions which need to be taken.
- > Sources of Attacking Passwords.
- > Best Practices to be followed in securing Account.
- > Brute force attack handler Mechanism.
- > Material for Reference.





ADEMIZE SOLUTIONS

# About Ademize

Learn . Grow . Succeed

Ademize Solutions is a US based IT Development & IT Training company committed to provide end-to-end IT Development Solutions and IT Training for becoming best IT Engineer.



ADEMIZE.COM

TRAINING@ADEMIZE.COM

945-241-5869