



# Pre–Pre New to Purple Team Education Pathway (Red Team Focused)

A comprehensive, beginner-safe, text-based introduction to ethical offensive security

All free resources • No videos • Foundation for Red → Purple progression

---

# Table of Contents

.....	1
<b>Purpose of This Pathway</b> .....	3
<b>SECTION 1 — Offensive Security Foundations</b> .....	4
<b>1.1 Understanding the Red Team Mindset (Text-Based)</b> .....	4
MITRE ATT&CK — Enterprise Matrix .....	4
CISA Threat Actor Summaries.....	4
OWASP Top 10 .....	4
<b>SECTION 2 — Operating Systems for Attackers</b> .....	5
<b>2.1 Linux for Offense</b> .....	5
Linux Journey.....	5
OverTheWire — Bandit.....	5
<b>2.2 Windows for Offense</b> .....	5
Microsoft Learn – Windows Security Fundamentals.....	5
Sysinternals Documentation .....	5
<b>SECTION 3 — Core Offensive Concepts (Text-Only)</b> .....	6
<b>3.1 Reconnaissance &amp; Enumeration</b> .....	6
HackTheBox Academy – Free Text Modules .....	6
TryHackMe — Free Written Rooms.....	6
<b>3.2 Understanding Vulnerabilities (Text-Based)</b> .....	6
NIST National Vulnerability Database (NVD) .....	6
Exploit Mitigations (MITRE D3FEND).....	6
<b>SECTION 4 — Beginner Offensive Techniques (Safe &amp; Text-Based)</b> .....	7
<b>4.1 Basic Attack Vectors</b> .....	7
OWASP Web Security Testing Guide (WSTG) .....	7
IRED.TEAM (Red Team Notes) .....	7
<b>4.2 Password &amp; Access Concepts</b> .....	7
Red Team Password Attacks (Theory) .....	7
Kerberos & AD Basics (Docs Only) .....	7
<b>SECTION 5 — Introductory Labs &amp; Exercises (Text Only)</b> .....	8
<b>Project 1 — Enumeration Drill</b> .....	8
<b>Project 2 — Web Attack Surface Mapping</b> .....	8

Project 3 — MITRE Technique Breakdown .....	8
Project 4 — Create an Adversary Card .....	8
SECTION 6 — Red Team Readiness Check .....	9
Completion Outcome .....	9

## Purpose of This Pathway

This curriculum prepares absolute beginners for safe, ethical offensive security learning **before** stepping into Purple Teaming.

By the end of this pathway, learners will:

- Understand attacker concepts and terminology
- Navigate Linux & Windows for offensive operations
- Perform basic enumeration and recon
- Understand vulnerabilities and common attack paths
- Build a mindset for adversary emulation

This is the offensive equivalent to your Blue Team pre-pathway.

---

# SECTION 1 — Offensive Security Foundations

## 1.1 Understanding the Red Team Mindset (Text-Based)

### MITRE ATT&CK — Enterprise Matrix

<https://attack.mitre.org>

- Tactic flow (Initial Access → Impact)
- Technique categories
- Real-world adversary procedures

### CISA Threat Actor Summaries

<https://www.cisa.gov/news-events/cybersecurity-advisories>

- Ransomware TTPs
- Nation-state activity overviews
- Behavior-based mapping

### OWASP Top 10

<https://owasp.org>

- Web vulnerabilities explained in plain text
- Common exploitation patterns

**Red Team Reasoning:** Offensive understanding starts with how attackers move, think, and chain vulnerabilities.

---

## SECTION 2 — Operating Systems for Attackers

### 2.1 Linux for Offense

#### Linux Journey

<https://linuxjourney.com>

- Shell basics
- Permissions (critical for privilege escalation)
- Processes & system navigation

#### OverTheWire — Bandit

<https://overthewire.org/wargames/bandit>

- Safe exploitation-style challenges
- Teaches command chaining, enumeration, decoding

### 2.2 Windows for Offense

#### Microsoft Learn – Windows Security Fundamentals

<https://learn.microsoft.com> Search: *Windows Security*

- Event logs (know what defenders see)
- Processes & services

#### Sysinternals Documentation

<https://learn.microsoft.com/sysinternals>

- Process Explorer
- Sysmon basics
- Core forensic artifacts

**Red Team Reasoning:** Attackers who understand Windows/Linux internals build better simulations.

---

## SECTION 3 — Core Offensive Concepts (Text-Only)

### 3.1 Reconnaissance & Enumeration

#### HackTheBox Academy – Free Text Modules

<https://academy.hackthebox.com> Use free modules:

- Intro to Pentesting
- Network Enumeration
- Web Requests

#### TryHackMe — Free Written Rooms

<https://tryhackme.com> Use rooms:

- Intro to Pentesting
- Basic Pentesting
- Vulnerabilities 101

### 3.2 Understanding Vulnerabilities (Text-Based)

#### NIST National Vulnerability Database (NVD)

<https://nvd.nist.gov>

- CVE browsing
- CVSS scoring

#### Exploit Mitigations (MITRE D3FEND)

<https://d3fend.mitre.org>

- Understand defender countermeasures

**Red Team Reasoning:** Offense requires strong knowledge of how vulnerabilities work and how defenders counter them.

---

## SECTION 4 — Beginner Offensive Techniques (Safe & Text-Based)

### 4.1 Basic Attack Vectors

#### OWASP Web Security Testing Guide (WSTG)

<https://owasp.org/www-project-web-security-testing-guide/>

- Input validation flaws
- Authentication issues
- Logic weaknesses

#### IREN.TEAM (Red Team Notes)

<https://www.ired.team>

- Windows internals for offense
- Command execution basics
- Privilege escalation theory

### 4.2 Password & Access Concepts

#### Red Team Password Attacks (Theory)

<https://attack.mitre.org/techniques/T1110>

Credential guessing

Hash attacks

OS credential access

#### Kerberos & AD Basics (Docs Only)

<https://learn.microsoft.com> Search: *Active Directory Fundamentals*

**Red Team Reasoning:** Even without hands-on exploitation, knowledge of attack surfaces builds offensive intuition.

---

## SECTION 5 — Introductory Labs & Exercises (Text Only)

### Project 1 — Enumeration Drill

Using only documentation and a Linux VM:

- Explore /etc/passwd, /etc/shadow
- List running processes
- Document potential weaknesses

### Project 2 — Web Attack Surface Mapping

Pick any public website and document:

- Visible endpoints
- Parameters
- Cookies
- Headers

(No exploitation — only recon.)

### Project 3 — MITRE Technique Breakdown

Pick one technique (e.g., T1059, T1047).

Document:

- Offense: what the attacker does
- Defense: what logs it generates
- Gaps: what might defenders miss

### Project 4 — Create an Adversary Card

Using ATT&CK: - Pick an APT group

Document 3–5 techniques

Map their lifecycle

Identify their goals

---



## SECTION 6 — Red Team Readiness Check

Before moving to the Pre–New to Purple Team Pathway, learners should be able to:

- Explain attacker tactics and techniques
  - Navigate Linux comfortably
  - Perform safe enumeration & recon
  - Interpret Windows artifacts
  - Understand basic privilege escalation concepts
  - Read ATT&CK pages fluently
- 

### Completion Outcome

After completing this Red Team–focused Pre–Pre Pathway, learners will:

- Understand attacker logic & methodology
- Build safe foundational offensive skills
- Become familiar with enumeration, recon, and exploit theory
- Be ready to move into the **Pre–New to Purple Team Pathway**
- Be positioned to begin adversary emulation within the Purple Team Field Manual

This path ensures a **safe, ethical, foundational approach** to offensive security before deeper Red or Purple operations.