

## WHAT WE OFFER



# EduServ IT



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Start your journey into  
the world of  
cybersecurity with us,  
Enroll Today!

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We teach our students  
how they can be the  
change they want to see  
in the world.

### PROGRAM DURATION:

- Total Duration: 4 Weeks
- Sessions: Twice a Week (2 hours per lecture session + 1 hour lab session)

### Enrollment Information:

Website: [www.eduservit.com](http://www.eduservit.com)

Email: [training@eduservit.com](mailto:training@eduservit.com)



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### **Basic Training Curriculum for College Students:**

*Identity and Access Management (IAM), LDAP, Federation Protocols, SAML, OAuth, Passwordless Authentication, Zero Trust Framework, and Multi-Factor Authentication (MFA)*

### **Program Overview:**

This foundational training program is designed specifically for college students to gain essential knowledge in Identity and Access Management (IAM) and related technologies. Participants will explore how modern organizations manage identities, secure access, and ensure robust cybersecurity practices.

### **Program Objectives:**

- Understand core IAM concepts and their significance in cybersecurity.
- Learn how authentication and authorization processes work.
- Explore key technologies like LDAP, SAML, OAuth, and Passwordless solutions.
- Understand the Zero Trust framework and the importance of multifactor authentication.
- Gain practical skills through real-world use cases and hands-on activities.



# Training Modules and Lab Sessions:

- 1. Introduction to Identity and Access Management (IAM)**
  - *Lecture Topics:* What is IAM? Importance of IAM in Modern Enterprises, IAM Lifecycle and Core Components.
- 2. Lightweight Directory Access Protocol (LDAP)**
  - *Lecture Topics:* Understanding Directories and LDAP Basics, How LDAP Works in Identity Management.
  - *Lab Session:* Setting up and Querying an LDAP Directory.
- 3. Federation Protocols and Single Sign-On (SSO)**
  - *Lecture Topics:* What is Identity Federation? Benefits of Federation Protocols, Introduction to SSO Mechanisms.
- 4. Security Assertion Markup Language (SAML)**
  - *Lecture Topics:* Understanding SAML and Its Use in Federation, Components of a SAML Transaction.
  - *Lab Session:* Simulating a SAML Authentication Flow in a Web Application.
- 5. OAuth and OpenID Connect (OIDC)**
  - *Lecture Topics:* Basics of OAuth 2.0 and OIDC, Differences Between OAuth and SAML.
  - *Lab Session:* Simulating a OIDC Authentication Flow in a Web Application.
- 6. Passwordless Authentication**
  - *Lecture Topics:* Challenges of Traditional Passwords, Overview of Passwordless Technologies.
  - *Demo Session:* Exploring Passwordless Authentication with Email-Based OTP Verification.
- 7. Zero Trust Security Framework**
  - *Lecture Topics:* What is Zero Trust? Key Principles and Architecture, Implementing Zero Trust in an Organization.
- 8. Multi-Factor Authentication (MFA)**
  - *Lecture Topics:* Importance of MFA in Modern Security, Types of MFA Methods.

## TARGET AUDIENCE:

- Undergraduate students interested in cybersecurity, IT, and computer science.
- Students seeking practical knowledge for internships and entry-level roles.

## LEARNING OUTCOMES:

UPON COMPLETION, PARTICIPANTS WILL BE ABLE TO:

- Explain key IAM concepts and protocols.
- Demonstrate basic use of LDAP and federated login systems.
- Understand multifactor authentication concepts and implementation strategies.
- Understand and apply Zero Trust principles.
- Build a foundational understanding for further advanced studies in cybersecurity.
- Develop hands-on experience with industry-standard IAM tools and technologies.

We empower our students to work hard and reach their potential!

