

# Security for Power Systems AIX

*Skills and expertise to help you increase the business value from your Power Systems investment*

*Security is an important aspect of the AIX operating system. This course is designed to help implement a security policy in an AIX environment. Students will learn the security features of AIX including administrative commands and components such as Role Based Access Control and implementing Encrypted File System in AIX*

*A trainer who have developed IBM AIX V6 and V7 courseware and built AIX Certification papers seven times.*

*This course will be delivered by IBM Certified and experienced trainer imparting IBM AIX courses globally for over 25 plus years.*

## Purpose:

Today's leaders face multiple challenges, including the need to secure the enterprise against a barrage of new and evolving sophisticated threats. The IBM business-driven approach to enterprise security helps to identify gaps in your existing capabilities across the people, processes, applications, data, technology and physical facilities across your organization.

The goal of this course is to provide participants a detailed knowledge and hands-on experience in implementing AIX security mechanisms under AIX 7. Customer using version AIX 6 may also attend this course.

## Course Requirement:

Students are required to bring their laptops with ssh client installed to access IBM AIX hands-on labs.

## Audience:

This course is intended for persons who want to learn what the security mechanisms are built-in AIX Version 7 and those who want to plan and implement AIX Security features mentioned in these five different units of this three-day hands-one workshop.

## The audience for this training includes:

- AIX technical support individuals, System administrators and System architects.

## Prerequisites:

Students should have basic AIX administration experience (TN100 and TN120 or TN140).

## Unit 1: AIX Base System Security

- Understand the concepts of users and groups.
- Controlling root access on the system.
- Define the uses of SUID, SGID and SVTX bits.
- Understanding system wide security critical logs.
- Users initialization process in AIX.
- Assigning security privileges to a normal user.
- Add/Change/Delete user and group accounts. Setting up a long character user login ID.
- Locking and unlocking a user account.
- Assigning users with ADMIN rights.
- AIX security files associated with Users and Groups.
- AIX security checkpoint for security administrator.
- Documenting Security Policy and Setup.

## Unit 2: AIX Network Security

- Potential security breaches in TCP/IP.
- Check common security requirements: Availability, Integrity, Confidentiality and Monitoring.
- Understanding TCP/IP start-up flow.
- TCP/IP network services – Ports and Sockets
- Use AIX Network Monitoring tools – iptrace, ipreport, and netpmn.
- Understanding network configuration files.
- Why ssh is secure as compare to telnet.
- Hardening host security.

## Unit 3: Implementing Role Based Access Control (RBAC)

- Introduction to AIX Role Back Access Control.
- Traditional approach to AIX system administration.
- Understanding available roles and authorizations.
- Describe the role of Kernel Security Table.
- The RBAC Framework and Roles.
- RBAC Implementation Steps and Strategy. Understand AIX RBAC commands.
- Configuring Role Based Access Control.

## Unit 4: Implementing Encrypted File Systems

- Introduction and Encrypted File System usability.
- Understanding CryptoLite cryptographic library.
- Creating/Managing EFS and related commands.
- To backup & restore EFS.

## Unit 5: Maintaining Systems Availability

- System continuous availability
- Understand Denial of Service (DoS) attack.
- DoS Vs. DDoS – A Basic AIX DOS Attack Shell Example.
- Basic tools for detecting DoS attacks.
- AIX host security checklist.
- List common warning signs of a security breach.
- AIX commands used to detect intrusion.
- Real Time countermeasures.
- Cleaning up the system after intrusion.

## Detail Information

Course Code	:TN470
Course Duration	: 3 Day
Course Location	: TLC, Customer onsite (Karachi, Lahore and Islamabad)
Discount	: Discounts are available on a registration of 3 or more students.
Deliverables	: Comprehensive Student Guide and Course Certificate
Terms and Conditions	: 100% Payment in Advance

*For additional information please write to us at: [info@tlcpk.net](mailto:info@tlcpk.net) or send us your nominations at [www.tlcpk.net/nomination1.html](http://www.tlcpk.net/nomination1.html)*

