

Advanced Linux for Security & Forensics

Amsterdam

1 - 5 September 2025

UK Traininig

PARTNER



Advanced Linux for Security & Forensics

Code: IT28 From: 1 - 5 September 2025 City: Amsterdam Fees: 4900 Pound

Introduction

Advanced Linux is a critical skill set for professionals managing complex IT environments, optimizing system performance, and implementing advanced security and forensic techniques. This course equips participants with the technical depth and practical skills to handle enterprise-grade Linux systems, automate processes, troubleshoot complex issues, and conduct security investigations.

Designed for professionals seeking mastery beyond the basics, the program focuses on real-world scenarios, advanced configurations, system hardening, performance tuning, and in-depth investigation techniques to secure and optimize critical infrastructure.

Course Objectives

- Master advanced Linux command-line tools and shell scripting.
- Configure and optimize system performance for production environments.
- Manage advanced networking, routing, and firewall configurations.
- Implement security best practices and system hardening techniques.
- Conduct forensic investigations and incident analysis on Linux systems.
- Automate administrative tasks using scripting and configuration management tools.
- Diagnose and resolve complex system issues effectively.
- Integrate monitoring, logging, and auditing for compliance.

Course Outlines

Day 1: Advanced Linux System Administration

- Deep dive into advanced file system management.
- Managing kernel modules and parameters.
- Advanced user and group administration.
- Process management and job scheduling.
- Advanced package management techniques.
- Workshop: Customizing Linux system behavior.

Day 2: Networking & Firewall Configuration

- Configuring advanced network interfaces and routing.
- Using iptables/nftables for custom firewall rules.
- Network performance optimization.
- Troubleshooting connectivity issues.
- Secure remote management and tunneling.
- Lab: Designing secure network configurations.

Day 3: Investigation & Forensics



- Fundamentals of Linux forensics.
- Preserving and collecting digital evidence.
- File system and log analysis techniques.
- Detecting and investigating system breaches.
- Tools for forensic imaging and recovery.
- Practical exercise: Analyzing a compromised system.

Day 4: Security & System Hardening

- Implementing advanced security policies.
- Enforcing access controls and privilege management.
- Auditing system activities and monitoring logs.
- Applying patches and managing vulnerabilities.
- Intrusion detection and prevention methods.
- Case study: Securing a production Linux server.

Day 5: Automation & Performance Optimization

- Writing advanced shell scripts for automation.
- Integrating configuration management tools Ansible, Puppet, etc..
- Performance tuning for CPU, memory, and I/O.
- Monitoring system health and resource usage.
- Final project: Designing a secure, optimized, automated Linux environment.
- Course closure and certification.

Why Attend this Course: Wins & Losses!

- Develop deep expertise in advanced Linux administration.
- Gain hands-on experience with investigation and forensic techniques.
- Improve system security, reliability, and performance.
- Automate repetitive tasks to increase efficiency.
- Learn to respond effectively to security incidents.
- Apply knowledge directly to enterprise-scale environments.
- Strengthen decision-making through data-driven system analysis.
- Earn a professional certification to boost career prospects.

Conclusion

The Advanced Linux course delivers a complete toolkit for mastering system administration, security, and forensic investigation in enterprise environments. By combining theoretical concepts with extensive practical exercises, it prepares participants to configure, secure, and troubleshoot Linux systems at the highest professional level.

Graduates of this program will be equipped to design secure infrastructures, automate complex workflows, and perform in-depth investigations ensuring operational resilience and compliance in any organization.



Blackbird Training Cities

Europe



Malaga (Spain)



Sarajevo (Bosnia and Herzegovina)



Oporto (Portugal)



Glasgow (Scotland)



Edinburgh (UK)



Oslo (Norway)



Annecy (France)



Bordeaux (France)



Copenhagen (Denmark)



Birmingham (UK)



Lyon (France)



Moscow (Russia)



Stockholm (Sweden)



Podgorica (Montenegro)



Batumi (Georgia)



London (UK)



Istanbul (Turkey)



Amsterdam



Düsseldorf (Germany)
(Switzerland)



Paris (France)



Athens (Greece)



Barcelona (Spain)



Munich (Germany)



Geneva



Prague (Czech)



Vienna (Austria)



Rome (Italy)



Brussels



Madrid (Spain)



Berlin (Germany)



Lisbon (Portugal)



Zurich



Manchester (UK)



Milan (Italy)



Blackbird Training Cities

USA & Canada



Los Angeles (USA)



Orlando, Florida (USA)



Online



Phoenix, Arizona (USA)



Houston, Texas (USA)



Boston, MA (USA)



Washington (USA)



Miami, Florida (USA)



New York City (USA)



Seattle, Washington (USA)



Washington DC (USA)



In House



Jersey, New Jersey (USA)



Toronto (Canada)

ASIA



Baku (Azerbaijan)
(Thailand)



Maldives (Maldives)



Doha (Qatar)



Manila (Philippines)



Bali (Indonesia)



Bangkok



Beijing (China)



Singapore (Singapore)



Sydney



Tokyo (Japan)



Jeddah (KSA)



Riyadh (KSA)



Melbourne (Australia)
Korea



Phuket (Thailand)



Dubai (UAE)



Kuala Lumpur (Malaysia)



Kuwait City (Kuwait)



Seoul (South)



Pulau Ujong (Singapore)



Irbid (Jordan)



Jakarta (Indonesia)



Amman (Jordan)



Beirut



Blackbird Training Cities

AFRICA



Kigali (Rwanda)



Cape Town (South Africa)



Accra (Ghana)



Lagos (Nigeria)



Marrakesh (Morocco)



Nairobi (Kenya)



Zanzibar (Tanzania)



Tangier (Morocco)



Cairo (Egypt)



Sharm El-Sheikh (Egypt)



Casablanca (Morocco)



Tunis (Tunisia)



Blackbird Training Clients



MANNAI Trading
Company WLL,
Qatar



Alumina Corporation
Guinea



Booking.com
Netherlands



Oxfam GB International
Organization,
Yemen



Capital Markets
Authority,
Kuwait



Waltersmith Petroman Oil Limited
Nigeria



Qatar National Bank
(QNB),
Qatar



Qatar Foundation,
Qatar



AFRICAN UNION ADVISORY
BOARD ON CORRUPTION,
Tanzania



KFAS
Kuwait



Reserve Bank of
Malawi,
Malawi



Central Bank of Nigeria
Nigeria



Ministry of Interior
Kingdom of Saudi Arabia
KSA



Mabruk Oil Company
Libya



Saudi Electricity
Company,
KSA



BADAN PENGELOLA
KEUANGAN Haji,
Indonesia



NATO
Italy



ENI CORPORATE
UNIVERSITY,
Italy



Gulf Bank
Kuwait



General Organization for
Social Insurance
KSA



Defence Space Administration
Nigeria



National Industries
Group (Holding),
Kuwait



Hamad Medical
Corporation,
Qatar



USAID
Pakistan



STC Solutions,
KSA



North Oil company,



EKO Electricity



Oman Broadband



UNITED NATIONS
UN.



Authority for

UK Training
PARTNER



Blackbird Training Categories

Management & Admin

Entertainment & Leisure
Professional Skills
Finance, Accounting, Budgeting
Media & Public Relations
Project Management
Human Resources
Audit & Quality Assurance
Marketing, Sales, Customer Service
Secretary & Admin
Supply Chain & Logistics
Management & Leadership
Agile and Elevation

Technical Courses

Artificial Intelligence (AI)
Hospital Management
Public Sector
Special Workshops
Oil & Gas Engineering
Telecom Engineering
IT & IT Engineering
Health & Safety
Law and Contract Management
Customs & Safety
Aviation
C-Suite Training



International House 185 Tower Bridge
Road London SE1 2UF United Kingdom



+44 7401 1773 35
+44 7480 775526



Sales@blackbird-training.com



www.blackbird-training.com

