

Mapping LPI certifications against e-CF  
EXIN

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Title	Linux Essentials Professional Development Certificate (PDC)
Provider	Linux Professional Institute
Web source	<a href="https://www.lpi.org/linux-certifications/entry-level-credential/linux">https://www.lpi.org/linux-certifications/entry-level-credential/linux</a>

Description	<p>To secure the Certificate of Achievement in LPI Linux Essentials, the candidate:</p> <ul style="list-style-type: none"> <li>• Understands the basic concepts of processes, programs and the components of an Operating System.</li> <li>• Has a basic knowledge of computer hardware.</li> <li>• Demonstrates a knowledge of Open Source Applications in the Workplace as they relate to Closed Source equivalents.</li> <li>• Understands navigation systems on a Linux Desktop and where to go for help.</li> <li>• Has a rudimentary ability to work on the command line and with files.</li> <li>• Can use a basic command line editor.</li> </ul>
Target Group	The exam covers basic knowledge for those working and studying in Open Source and various distributions of Linux.

Corresponding ICT-Profiles	Systems Administrator
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Prerequisites	none
Main Subjects	<ul style="list-style-type: none"> <li>The Linux Community and a Career in Open Source</li> <li>Finding Your Way on a Linux System</li> <li>The Power of the Command Line</li> <li>The Linux Operating System</li> <li>Security and File Permissions</li> </ul>

Competences covered with this certificate				Competences from the ICT Profiles
e-CF competence		Level	G/P/S	Systems Administrator
B.2	Component Integration	2	P	2
B.3	Testing			2
B.4	Solution Deployment	1	S	
C.1	User Support	1	S	2-3
C.4	Problem Management			2
E.8	Information Security Management	2	S	2

Title	Junior Level Linux Certification (LPIC-1)
Provider	Linux Professional Institute
Web source	<a href="https://www.lpi.org/linux-certifications/programs/lpic-1">https://www.lpi.org/linux-certifications/programs/lpic-1</a>

Description	<p>LPIC-1 is a junior level certification for Linux administrators. Candidates should be able to:</p> <ol style="list-style-type: none"> <li>1. Work at the Linux command line.</li> <li>2. Perform easy maintenance tasks: help users, add users to a larger system, backup and restore, shutdown and reboot.</li> <li>3. Install and configure a workstation (including X) and connect it to a LAN, or a standalone PC to the Internet.</li> </ol> <p>The certification is obtained after passing two exams.</p>
Target Group	Linux Administrators, Systems Administrators, Network Administrators

Corresponding ICT-Profiles	Network Specialist
	Systems Administrator

Prerequisites	none
Main Subjects	<ul style="list-style-type: none"> <li>System Architecture</li> <li>Linux Installation and Package Management</li> <li>GNU and Unix Commands</li> <li>Devices, Linux Filesystems, Filesystem Hierarchy Standard</li> <li>Shells, Scripting and Data Management</li> <li>User Interfaces and Desktops</li> <li>Administrative Tasks</li> <li>Essential System Services</li> <li>Networking Fundamentals</li> <li>Security</li> </ul>

Competences covered with this certificate			Competences from the ICT Profiles	
e-CF competence	Level	G/P/S	Network Specialist	Systems Administrator
B.1	Application Development		2-3	
B.2	Component Integration	2	G	2
B.3	Testing			2
B.4	Solution Deployment	2	P	
C.1	User Support	1	S	2-3
C.4	Problem Management		2-3	2
E.8	Information Security Management	2	S	2

Title	Advanced Level Linux Certification (LPIC-2)
Provider	Linux Professional Institute
Web source	<a href="http://www.lpi.org/linux-certifications/programs/lpic-2">http://www.lpi.org/linux-certifications/programs/lpic-2</a>

Description	<p>LPIC-2 is aimed at advanced Linux professionals. Candidates should be able to:</p> <ul style="list-style-type: none"> <li>• Administer a small to medium-sized site.</li> <li>• Plan, implement, maintain, keep consistent, secure, and troubleshoot a small mixed (MS, Linux) network.</li> <li>• Supervise assistants.</li> <li>• Advise management on automation and purchases.</li> </ul> <p>The certification is obtained after passing two exams.</p>
Target Group	Advanced Linux professionals

Corresponding ICT-Profiles	Network Specialist
	Systems Administrator

Prerequisites	LPIC-1 certification
Main Subjects	<ul style="list-style-type: none"> <li>Capacity Planning</li> <li>Linux Kernel</li> <li>System Startup</li> <li>File System and Devices</li> <li>Advanced Storage Device Administration</li> <li>Networking Configuration</li> <li>System Maintenance</li> <li>Domain Name Server</li> <li>Web Services</li> <li>File Sharing</li> <li>Network Client Management</li> <li>E-Mail Services</li> <li>System Security</li> <li>Troubleshooting</li> </ul>

Competences covered with this certificate				Competences from the ICT Profiles	
e-CF competence		Level	G/P/S	Network Specialist	Systems Administrator
B.1	Application Development	2	S	2-3	
B.2	Component Integration	2	G	2-3	2
B.3	Testing				2
B.4	Solution Deployment	2	G	2-3	
C.1	User Support	1	S		2-3
C.3	Service Delivery	2	S		
C.4	Problem Management	3	G	2-3	2
E.8	Information Security Management	2	P	2	2

Title	Senior Level Linux Certification (LPIC-3) Mixed Environment
Provider	Linux Professional Institute
Web source	<a href="https://www.lpi.org/linux-certifications/programs/lpic-3">https://www.lpi.org/linux-certifications/programs/lpic-3</a>

Description	<p>LPIC-3 is designed for the enterprise-level Linux professional. It represents the highest level of professional Linux certification within the industry. Candidates should:</p> <ul style="list-style-type: none"> <li>• Have several years experience with installing and maintaining Linux on many computers for various purposes.</li> <li>• Have integration experience with diverse technologies and operating systems.</li> <li>• Have professional experience as, or training for, an enterprise-level Linux professional. (This includes experience as a part of another role.)</li> <li>• Know advanced and enterprise levels of Linux administration, including installation, management, security, troubleshooting and maintenance.</li> <li>• Be able to use open-source tools to measure capacity planning and to troubleshoot resource problems.</li> <li>• Have professional experience using LDAP to integrate with Unix services and Windows services, including Samba, PAM, NSS, Active Directory.</li> <li>• Be able to plan, architecture, design, build and implement a full environment using Samba3, Samba4 and LDAP.</li> </ul> <p>The certification is obtained after passing the LPI-300 exam.</p>
Target Group	Enterprise-level Linux professionals

Corresponding ICT-Profiles	Network Specialist Systems Administrator
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Prerequisites	LPIC-2 certification
Main Subjects	<ul style="list-style-type: none"> <li>OpenLDAP Configuration</li> <li>OpenLDAP as an Authentication Backend</li> <li>Samba Basics</li> <li>Samba Share Configuration</li> <li>Samba User and Group Management</li> <li>Samba Domain Integration</li> <li>Samba Name Services</li> <li>Working with Linux and Windows Clients</li> </ul>

Competences covered with this certificate			Competences from the ICT Profiles	
e-CF competence	Level	G/P/S	Network Specialist	Systems Administrator
B.1	Application Development		2-3	
B.2	Component Integration	3	G	2
B.3	Testing			2
B.4	Solution Deployment	3	P	2-3
C.1	User Support	1	S	2-3
C.3	Service Delivery	2	P	
C.4	Problem Management	3	G	2
E.8	Information Security Management	2	P	2

Title	Senior Level Linux Certification (LPIC-3) Security
Provider	Linux Professional Institute
Web source	<a href="https://www.lpi.org/linux-certifications/programs/lpic-3">https://www.lpi.org/linux-certifications/programs/lpic-3</a>

Description	<p>LPIC-3 is designed for the enterprise-level Linux professional. It represents the highest level of professional Linux certification within the industry. Candidates should:</p> <ul style="list-style-type: none"> <li>• Design and implement customized solutions to complex automation problems such as multi-site enterprises and heavy-duty Internet sites.</li> <li>• Initiate projects and work against a budget.</li> <li>• Supervise assistants and help troubleshoot problems.</li> <li>• Serve as a consultant to higher management.</li> </ul> <p>The certification is obtained after passing the LPI-303 exam.</p>
Target Group	Enterprise-level Linux professionals

Corresponding ICT-Profiles	Network Specialist
	Systems Administrator

Prerequisites	LPIC-2 certification							
Main Subjects	<table border="1"> <tr><td>Cryptography</td></tr> <tr><td>Access Control</td></tr> <tr><td>Application Security</td></tr> <tr><td>Operations Security</td></tr> <tr><td>Network Security</td></tr> <tr><td></td></tr> <tr><td></td></tr> </table>	Cryptography	Access Control	Application Security	Operations Security	Network Security		
Cryptography								
Access Control								
Application Security								
Operations Security								
Network Security								

Competences covered with this certificate			Competences from the ICT Profiles	
e-CF competence	Level	G/P/S	Network Specialist	Systems Administrator
B.1	Application Development		2-3	
B.2	Component Integration	3	P	2
B.3	Testing			2
B.4	Solution Deployment	2	G	2-3
C.1	User Support	1	S	2-3
C.4	Problem Management	3	G	2
E.8	Information Security Management	3	G	2

Title	Senior Level Linux Certification (LPIC-3) Virtualization and High Availability
Provider	Linux Professional Institute
Web source	<a href="https://www.lpi.org/linux-certifications/programs/lpic-3">https://www.lpi.org/linux-certifications/programs/lpic-3</a>

Description	LPIC-3 is designed for the enterprise-level Linux professional. It represents the highest level of professional Linux certification within the industry. Candidates should know and understand the general concepts, theory and terminology of Virtualization. This includes Xen and KVM terminology. The certification is obtained after passing the LPI-304 exam.
Target Group	Enterprise-level Linux professionals

Corresponding ICT-Profiles	Network Specialist Systems Administrator
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Prerequisites	LPIC-2 certification
Main Subjects	<ul style="list-style-type: none"> <li>Virtualization</li> <li>Load Balancing</li> <li>Cluster Management</li> <li>Cluster Storage</li> </ul>

Competences covered with this certificate			Competences from the ICT Profiles	
e-CF competence	Level	G/P/S	Network Specialist	Systems Administrator
B.1	Application Development		2-3	
B.2	Component Integration	3	G	2
B.3	Testing			2
B.4	Solution Deployment	2	G	2-3
C.1	User Support	1	S	2-3
C.3	Service Delivery	2	S	
C.4	Problem Management	3	G	2
E.8	Information Security Management	2	P	2