

<b>Course Name</b>	<b><i>LINUX SYSTEM ADMINISTRATION – EXPERT (SC)</i></b>								
<b>Course Overview</b>	<p><i>Linux System Administration - Expert</i> is intended for experienced Linux administrators wishing to learn enterprise-level automation techniques through scripting, how to deploy and secure network services, and how to manage other key security features of enterprise level Linux. Participants in this course should have completed the Linux System Administration – Intermediate course or have equivalent skills.</p> <p>Through lectures and hands-on labs, participants who have already earned the RHCSA certification will be exposed to all competencies required to sit for the Red Hat Certified Engineer (RHCE) exam (EX300).</p>								
<b>Course Objective</b>	<p>Upon completion this course, the participants should be able to:</p> <ul style="list-style-type: none"> <li>• Perform package, network and storage management on an enterprise Linux.</li> <li>• Perform account and authentication management</li> <li>• Perform Linux installation, kickstart, and virtualization</li> <li>• Perform SELinux and firewall management</li> <li>• Configure and manage Web and Email services</li> <li>• Perform network file-sharing services</li> </ul>								
<b>Target Audience</b>	<p>This training is suitable for all individuals who wish to gain expertise in Linux system administration. It is also intended for individuals aiming for advanced professional certification which will enable them to perform professional system administration task.</p>								
<b>Course Outline</b>	<table border="1"> <thead> <tr> <th>DAY / DATE</th> <th>TIME</th> <th>TOPIC</th> </tr> </thead> <tbody> <tr> <td>Day 1</td> <td> <b>9 am – 12.30 noon</b>   10 am – 10.15 am   - Tea break </td> <td> <b>EXPLORING THE Linux operating system</b> <ul style="list-style-type: none"> <li>• Installing Linux System</li> <li>• Setting up the environment and Explore the system</li> <li>• Basic Commands to navigate the Operating System</li> </ul> </td> </tr> </tbody> </table>			DAY / DATE	TIME	TOPIC	Day 1	<b>9 am – 12.30 noon</b>  10 am – 10.15 am  - Tea break	<b>EXPLORING THE Linux operating system</b> <ul style="list-style-type: none"> <li>• Installing Linux System</li> <li>• Setting up the environment and Explore the system</li> <li>• Basic Commands to navigate the Operating System</li> </ul>
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	Day 2	<p><b>9 am – 12.30 noon</b></p> <p>10 am – 10.15 am</p> <ul style="list-style-type: none"> <li>- Tea break</li> </ul> <p>12.30 noon – 2.00 pm</p> <ul style="list-style-type: none"> <li>- Lunch</li> </ul> <p><b>2.00 pm – 5.30 pm</b></p> <p>4.00 pm – 4.15 pm</p> <ul style="list-style-type: none"> <li>- Tea break</li> </ul>	<p><b>Troubleshooting Exercise</b></p> <ul style="list-style-type: none"> <li>• Troubleshoot and recover the operating system by the students after crashing the system in different ways</li> </ul> <p><b>Troubleshooting Continued</b></p> <ul style="list-style-type: none"> <li>• Recovering the System</li> </ul>	
	Day 3	<p><b>9 am – 12.30 noon</b></p>	<p><b>server Installation and Configuration</b></p>	

		<p><i>10 am – 10.15 am</i></p> <ul style="list-style-type: none"> <li>- <i>Tea break</i></li> </ul> <p><i>12.30 noon – 2.00 pm</i></p> <ul style="list-style-type: none"> <li>- <i>Lunch</i></li> </ul> <p><i>4.00 pm – 4.15 pm</i></p> <ul style="list-style-type: none"> <li>- <i>Tea Break</i></li> </ul>	<ul style="list-style-type: none"> <li>• VSFTPD Installation and Configuration</li> <li>• Apache Installation and Configuration</li> <li>• DNS Installation and Configuration</li> </ul>
	Day4	<p><b>9 am – 12.30 noon</b></p> <p><i>10 am – 10.15 am</i></p> <ul style="list-style-type: none"> <li>- <i>Tea break</i></li> </ul> <p><i>12.30 noon – 2.00 pm</i></p> <ul style="list-style-type: none"> <li>- <i>Lunch</i></li> </ul> <p><i>4.00 pm – 4.15 pm</i></p> <ul style="list-style-type: none"> <li>- <i>Tea Break</i></li> </ul>	<p><b>server Installation and Configuration</b></p> <ul style="list-style-type: none"> <li>• Mail Server Installation and Configuration</li> <li>• Virtualization setup</li> <li>• Introduction to Amazon AWS</li> <li>• File sharing (NFS and SAMBA) setup</li> </ul>
	Day5	<p><b>9 am – 12.30 noon</b></p>	<p><b>Securing the Server with IPTables and selinux</b></p>

			<p><i>10 am – 10.15 am</i></p> <p>- <i>Tea break</i></p> <p><i>12.30 noon – 2.00 pm</i></p> <p>- <i>Lunch</i></p> <p><i>4.00 pm – 4.15 pm</i></p> <p>- <i>Tea Break</i></p>	<ul style="list-style-type: none"> <li>• Introduction to IPTABLES</li> <li>• IPTABLES Rules in Details</li> <li>• Mandatory Access Control</li> <li>• SELinux Targeted Policy</li> <li>• Scenario Based Firewall setup</li> </ul>
<i>*Note: Topics proposed are subjects to changes</i>				
<b>Duration</b>	5 Days			