

## LONDON CAPITAL COMPUTER COLLEGE

## Diploma in Unix (189) – Solaris Administration

<b>Prerequisites:</b> Knowledge in Unix operating system.		Corequisites: A pass or higher in Certificate in Unix Networking or equivalence.			
Aim: Solaris has always been the premier commercial	Aim: Solaris has always been the premier commercial operating system, and this remains the case today. Most Oracle				
Database Systems sit on top of Solaris, hence Solaris System Administration training course give candidates advantages					
		nies use Oracle database. Administering Solaris systems			
		g down a system, managing printers and performing regular			
		ary knowledge and skills in perform the following tasks:			
		artup and shutdown procedures; Service management			
		ckage administration; Maintenance of patches; Connection			
		File security and access control lists; User management;			
Backup and recovery; Managing the print environment					
Required Materials: Recommended Learning Supplementary Materials: Lecture notes and tutor extra readi					
Resources.		mendations.			
<b>Special Requirements:</b> The course requires a comb	ination o	of lectures, demonstrations, discussions, and hands-on labs.			
Major Learning Outcomes:		sment Criteria:			
1. Describe the Solaris Administration tools	1.1	Discuss Solaris hardware classification			
and the functions of an Administrator.	1.2	Describe system administration functions			
	1.3	Outline Solaris system administration			
		procedures			
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2. Describe Solaris hardware platforms,	2.1	Explore Solaris operating system			
characteristics and features.		releases			
	2.2	Explore Solaris disk geometry			
	2.3	Outline Solaris installation process			
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3. Demonstrate how to install and configure	3.1	Explore the Administration tool			
Solaris, system configuration files and	3.2	Explore how to add printers and			
configuration of users and utilities.		terminals			
	3.3	Analyse how to add user accounts			
	3.4	Describe user groups			
	3.5	Be able to set <b>crontab</b>			
	3.6	Explore system security			
4. Demonstrate the step-by-step of	4.1	Outline Solaris booting process			
automatic start up and shutdown process. Explore	4.2	Describe scripts used to start services			
System services and daemons.	4.3	Outline terminal login command			
	4.4	Explore system shutdown process			
	4.5	Describe the power management utility			
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5. Demonstrate how to use the command	5.1	Describe ownership of files and			
line useradd command and using the admintool	<i>5</i> 2	directories			
application in graphical mode.	5.2	Define process ownership			
	5.3	Explore process management utility			
	5.4	Discuss classes of users			
	5.5	Describe the steps in creating a users			
	5.6	Explore login monitoring commands			
	5.7	Outline different tools used to create/add			
		users			
6 Damonstrata Solaris sagarrity, related	6.1	Describe commands for managing file			
6. Demonstrate Solaris security-related,	6.1	Describe commands for managing file			
maintenance and troubleshooting tools		system			

	6.2	Define symbolic and hard links
	6.3	Explore files system protection
		mechanisms
	6.4	Be able to use file and directory access
	6.5	modes Define Access Control List (ACL)
	6.6	Outline Solaris file system structure
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7. Describe Solaris several standard groups	7.1	Discuss the concept of groups and group
and demonstrate how created groups and	7.0	ID
assign rights and privileges.	7.2	Describe file/directory group identification
	7.3	Explore <b>chgrp</b> command
	7.4	Be able to use <b>Adminsuite</b> and
		Admintool utilities
0 Demonstrate heavy medicans full acceptant	0.1	Outline the consents and utility tools
8. Demonstrate how perform full system backup and data and system restore.	8.1	Outline the concepts and utility tools used to backup data
backup and data and system restore.	8.2	Contrast complete vs incremental backup
	8.3	Be able to perform backups over the
		network
	8.4	Outline data and system file restoration
	8.5	Describe differences between archive
		and backup
9. Demonstrate how to create and	9.1	Outline printer physical connection
administer print servers and client and		process
troubleshooting printing problems.	9.2	Describe Solaris spooling
	9.3	Compare user and administrator printer commands
	9.4	Be able to add a local and remote printer
	7.1	be use to use a local and remote printer
10. Demonstrate the process of formatting	10.1	Define slicing
and dividing the disk into slices. Explore disk	10.2	Be able to create a Solaris file system
addressing conventions, partitions and slices under Solaris.	10.3	Describe mount command
Solaris.		
11. Demonstrate how to configure network	11.1	Describe Ethernet LAN operations
and setup Solaris server to receive an IP Address	11.2	Explore LAN network hardware
from a DHCP server.	11.2	requirements
	11.3 11.4	Discuss network communication media Describe WAN equipment and
	11.4	requirements
	11.5	Describe the /etc/hosts file
	11.6	Describe the <b>DHCP</b> mechanism
	11.7	Define routing
	11.8 11.9	Explore network security commands Explore network services
	11.9	Be able to use network monitoring
		commands
12. Describe how NFS protocol provides	12.1	Outline benefits and uses of NFS
transparent remote access to shared file systems across networks.	12.2 12.3	Outline NFS server configuration Describe the <b>share</b> command
across networks.	12.3	Define the <b>mount</b> command
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13. Describe Solaris naming services, how	13.1	Describe naming services
the Solaris operating environment provides the	13.2	Describe DNS
name services, how to Setup DNS Client configuration and Domain name services resolves	13.3	Describe Network Information System (NIS)
names to the ip addresses.	13.4	Explore NIS+ terminology
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14. Describe how Solaris for Intranets	14.1	Be able to setup email

features an e-mail server and SKIP encryption	14.2	Outline mail system configuration
software.		process
	14.3	Be able to configure browser
	14.4	Outline Web Server configuration
		process

## **Recommended Learning Resources: Solaris Administration**

Text Books	<ul> <li>Solaris (Operating System): Operating System UNIX, Microsystems, SPARC, DTrace, ZFS by Lambert M. Surhone, Miriam T. Timpledon and Susan F. Marseken ISBN-10: 6130511116</li> <li>Solaris Administration: A Beginner's Guide by Paul Watters ISBN-10: 0072131551</li> </ul>
Text Books	<ul> <li>Configuration and Capacity Planning for Solaris Servers by Brian L. Wong ISBN-10: 0133499529</li> </ul>
Study Manuals	BCE produced study packs
CD ROM	Power-point slides
Software	Solaris