

# AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

### IAF-AVADI, CHENNAI - 55



# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### STUDENT CIRCULAR

Date: 25-06-2019

The Department of Computer Science and Engineering plans to conduct a value added Course "LINUX SYSTEM ADMINISTRATION" by Mr. S SENTHIL KUMAR, "ELBOUND SYSTEM PRIVATE LIMITED", for the benefit of III year B.E CSE Students. This Course is Scheduled from 01-07-2019 to 27-07-2019 at 4.00 P.M. To 5.50 P.M. for 36 hours in 4 weeks. All students must attend all classes with 75% attendance and score 50% on the Quiz. Students who complete the course successfully will receive certificates.

HOD/CSE

HEAD

Computer Science & Engineering
Aalim Muhammed Salegh
College of Engineering

Copy to:

Principal

**IQAC** 

Resource Person: Mr. S. Senthil Kumar

**CSE Faculty Members** 

III Year CSE Students Whatsapp group

HOSTEL/TransportSupervisor

Campus Manager/Campus Engineer





# AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Approved by AICTE and Affiliated to Anna University Chennal











TNEA Counselling CODE: 1101

Department of Computer Science and Engineering

organizes

# VALUE ADDED COURSE ON

LINUX SYSTEM
ADMINISTRATION
FOR-III YEAR CSE STUDENTS

DATE: 1-07-2019 TO 27-07-2019 TIME: 4.00PM TO

5.50PM

RESOURCE PERSON
S. SENTHIL KUMAR
LBOUND SYSTEMS PRIVATE
LIMITED

Dr.R.Shankar HOD/CSE Prof.Dr.Afzal Ali Baig Principal Alharis Segu Jamaludeen Secretary & Correspondent

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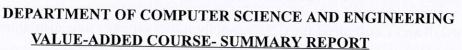
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# AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

# IAF-AVADI, CHENNAI - 55





COURSE NAME: LINUX SYSTEM ADMINISTRATION

Date: 01-07-2019 To 27-07-2019

Time: 4.00 P.M to 5.50 P.M

Speaker: Mr. S Senthil Kumar

**Course Hours: 36** 

No of weeks: 4

No of Modules:4

**Students Registered:57** 

**Attended Students: 57** 

**Students Certified:57** 

#### **Objective of the Course:**

- Understanding Linux Basics: Equip students with foundational knowledge about Linux distributions, installation processes, and the Linux filesystem hierarchy
- Command Line Proficiency: Enable students to navigate the terminal confidently
  and use essential commands for file and directory management, as well as manage file
  permissions.
- System Configuration Skills: Teach students about package management, system services, and daemons, including an understanding of systemd.
- Advanced Administration Techniques: Provide insights into storage management, performance tuning, and monitoring tools for effective system administration.

Summary of the course: A total of 57 Students were Participated the course Linux System Administration. The students will learn how to search for the position of Linux Systems Administrator which allows me to make effective use of my technical skills while also developing new ones along the way.



# **Course Outcomes:**

Upon successful completion of this course, students should be able to:

- Install and Configure Linux: Successfully install various Linux distributions and understand their unique features and file system structures.
- Utilize Command Line Tools: Effectively navigate the Linux command line and perform basic file operations while managing permissions and ownership.
- Manage Software and Services: Install, update, and remove software packages; manage system services using systemd; and understand the importance of run levels and targets.
- Administer System Storage: Comprehend the concepts of partitions and logical volume management, and manage disks and file systems effectively.

COURSE COORDINATOR

Computer Science & Engineering Aalim Muhammed Salegh College of Engineering

MEGH CO CHENNAL 600 055

The HOD,

Department of Computer Science and Engineering,

Aalim Muhammed Salegh College of Engineering,

Muthapudupet, Avadi,

Chennai- 600 055.

To

The Principal,

Aalim Muhammed Salegh College of Engineering,

Muthapudupet, Avadi,

Chennai - 600 055.

Subject: Requisition for Approval of Value-Added Course on "Linux System Administration"- Reg. Respected Sir,

We would like to arrange a Value-Added Course on the title "Linux System Administration" for third-year CSE students. The Course will be conducted by "Mr. S.Senthil Kumar", M/s Elbound Systems. The Value-Added Course will be conducted from 01.07.2019 to 27.07.2019. So we kindly request you to provide approval for the same.

Thanking you

CHENNAI 600 055

PRINCIPAL AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING Yours Faithfully

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AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING VADI - IAF, MUTHAPUDUPE CHENNAL 600 055

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# AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING IAF-AVADI, CHENNAI - 55



# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

# Value Added Course Details

Course Name: Linux System Administration

Date: 01-07-2019 to 27-07-2019

Week	Content	Total Hours
1	<ul> <li>Module 1: Introduction to Linux</li> <li>Linux Basics</li> <li>Overview of Linux distributions</li> <li>Installing Linux (Ubuntu, CentOS, etc.)</li> <li>Understanding the Linux filesystem hierarchy</li> <li>Command Line Basics</li> <li>Navigating the terminal</li> <li>Basic commands: ls, cd, cp, mv, rm, mkdir, rmdir</li> <li>Understanding file permissions and ownership (chmod, chown, chgrp)</li> </ul>	9
2	Module 2: System Configuration and Networking  Package Management  Installing and removing software (APT for Debian/Ubuntu, YUM/DNF for CentOS/RHEL)  Understanding package repositories  System Services and Daemons  Introduction to systemd  Managing services (systemctl start/stop/status)  Understanding runlevels and targets	9



	Module 3: Advanced Administration	
	Storage Management	
3	<ul> <li>Understanding partitions, LVM, and filesystems</li> <li>Managing disks and filesystems (fdisk, mkfs, mount, umount)</li> <li>Backup strategies and tools (rsync, tar)</li> <li>System Performance Tuning</li> <li>Monitoring system performance</li> <li>Identifying bottlenecks</li> <li>Tools: top, iotop, vmstat, sar</li> </ul>	9
4	Module 4: Final Projects and Best Practices  Monitoring and Logging  Installing and configuring monitoring tools (Nagios, Zabbix) Centralized logging with syslog or ELK stack  Security Best Practices  Hardening a Linux server Implementing backups and recovery plans	9
		36







# AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING IAF-AVADI, CHENNAI - 55



# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

	COURSE NAME:L	INUX SYSTEM ADMINISTRATION TIMING:4.00 P.M TO 5.50 PM								
S.No	DATE	COURSE CONTENT								
1	01/07/2019	Overview of Linux distributions, Installing Linux (Ubuntu, CentOS, etc.)								
2	02/07/2019	Understanding the Linux filesystem hierarchy								
3	03/07/2019	Navigating the terminal, Basic commands: ls, cd, cp, mv, rm, mkdir, rmdir								
4	04/07/2019	Understanding file permissions and ownership (chmod, chown, chgrp)								
5	05/07/2019	Installing and removing software (APT for Debian/Ubuntu, YUM/DNF for CentOS/RHEL)								
6	08/07/2019	Understanding package repositories								
7	09/07/2019	Understanding package repositories								
8	10/07/2019	Introduction to systemd, Managing services (systemctl start/stop/status)								
9	11/07/2019	Understanding runlevels and targets								
10	12/07/2019	Understanding partitions, LVM, and filesystems								
11	15/07/2019	Managing disks and filesystems (fdisk, mkfs, mount, umount), Backup strategies and tools (rsync, tar)								
12	16/07/2019	Monitoring system performance,								
13	18/07/2019	Identifying bottlenecks								
14	19/07/2019	Tools: top, iotop, vmstat, sar								
15	22/07/2019	Tools: top, iotop, vmstat, sar								
16	23/07/2019	Installing and configuring monitoring tools (Nagios, Zabbix)								
17	24/07/2019	Installing and configuring monitoring tools (Nagios, Zabbix)								
. 18	25/07/2019	Centralized logging with syslog or ELK stack								
19	26/07/2019	Hardening a Linux server								
20	27/07/2019	Implementing backups and recovery plans								



PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

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# AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING MUTHAPUDUPET, AVADI-IAF, CHENNAI DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING COURSE NAME:LINUX SYSTEMS ADMINISTRATION



ATTENDENCE SHEET

			ATTE	NDENC	E SHEE	T						
S.NO	REG.NO	NAME OF THE STUDENTS	1/7	44	3/4	4)年	5/7	8/7	9/1	10/7	11/4	12/4
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2	110117104004	AHAMED RIYAZ M	rifing	zi/z.	rifaz	nige	nya		wife.	-rifez	will.	Tolkey
3	110117104005	AHMED SUFYAN M	Builties.	N. Julean	miles		States.	8-1200	Sylyer	Sylyen	STHEW.	34400
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5	110117104007	ALI ASKAR A	चिर	Air	AIP	119	×11°	the	1.18	Ale	die	2118
6	110117104009	CADER SAHIB RIMAS M Z	Willey Br	airmon	umu	EUMAN	pin no	- periorio	RUMO	Purno	aveno	21/H2
7	.110117104012	HAMEED AKSHAL A	Mornier	None	Harand	Younged	Money	Morning	Normad	Normad	Marnier	Mound
8	110117104016	JESILA BANU A	-jel	Tel	John John	39		8	59	50)	3	52
9	110117104021	MIR MUDASSIR ALI	AL	AL	AL	AL	4	AL	AL	A		Al
10	110117104023	MOHAMED EJLAL A	欧江	一地	· <u>B</u> ]_	對上	<b>12</b>	同社		his	187	
11	110117104030	MOHAMED SHEIK RABIS S	Dy	RY	RY	DI	@ul	61	Ry	DU	P)	QJ
12	110117104031	MOHAMED THANVEER M	Te	Ta		Teg.	TRA	The	Pa	- Pel	The	TIAL
13	110117104032	MOHAMED YAMEEN Z	Kou	YOU	VS4	Y091_		72	1004	VOL	Y94	1/01
14	110117104035	MOHAMMED JUFFRI M	JUFF	Trepa	Juff	h Juff	1 Turk	Theret	TOPH	TUP		Tuley
15	110117104038	MOHAMMED RAFEEQ K	a-	B	B	B	(B)	R	Br	Re	Per	6
16	110117104039	MOHAMMED THAHSEEN N	<b>W</b>	\$ TO	M	R	M	W	\$P	00	m	Ø.
17	110117104041	MUBARAK BASHA H	(Mb)	Ma	Wa	·Mb	MB	Wb.	M	Mb	(Mb)	Me
3	110117104042	MUHAMED NOORUL AMEEN M R	Assess -	1 Mary	Horsey	Anun	1 Duran	1 such	Bores	Brown	Ame	Some
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20	110117104046	NOOR MUHAMMED M G	Abore	Now	Non	Moor	Nov	Non	Noon	Noon	Nacon	Near
21	110117104047	RASIKA NANDKISHOR MANKAR	Punke	gov	Parti!	Parit:	Panib	Paril	Persi	Persit	Pan 1	Ram
22	110117104048	RIFAT MOHAMMED T R	Office	BALL	Portion	Pozn	Jozn	Call	O.S.	Jalin	Borne	
23	110117104049	RIYAZ ALI F	A19	SIIS	A1,0		2/18	die	410	410	419	412
24	110117104050	SAFIN SIRAJ A	W.	MA	M	May	MA	W.	M	Nob	Mess.	Malo
25	110117104051	SAMRA FATHIMA S	July	lath	Jali	Jalla	Selven	Jami	Jathi	Voths	Rosti	Jasti
26	110117104053	SANDHIYA V	sandhiy	Barding	Sarellip	Sanship	bankiy	sandid	bundling	soulid	Land	Sande
27	110117104055	SIRISHMA N	Sur	Sin	Sim	Sur	Su	SIM	シャケ	Zu	Sini	FUM!
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33	110117104011	DIVYA M	Dawya	Dirya	Brya	MUH 9	Binya	Ojiva a	MILLERA	Dinya	given	D'imi a
34	110117104013	HAROON S B	Mouan	Hawan	Honoon	Moson	HONOR	HOROR	HONGE	HOWE	#GNNO	MONADO
35	110117104014	HASAN ABDUL KADER J K	Bah	Aboli	HA	Stock	Del	Dale	Shold	Madel	Modu	Hole
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45	110117104034	MOHAMMED FALIL	Salet	Table	Jaly		John	Palg.	Jak	fatif	Tole	Jaha
46	110117104036	MOHAMMED MOHSIN KHAN	WW.	M	ADR	Mas	W.	MAR	W	AM	We	AM
47	110117104037	MOHAMMED MUSTHAFA AFRUDEEN S	Jolie	AN C	Jai	Adi	Poli	Foli	Pol	old	Poli	Stati
48	110117104040	MOHAMMED ZAID AHMED	Bool		Reg	Josh		J. ON	5000	,	Sood	Jost
49	110117104043	MUZAFFAR M	MUZZAPER	Muzache	Muzagos		Newsalfer	hring dellar	hn Jugger	Mizalfa	Mizzalfar	0-
50	110117104052	SANDHIYA G	Boulling	Bouling	Sandlaye	gendlay's	Sandley	Souding	Sandledy		Grading.	Cardinay.
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53	110117104059	TAJAMUL ARAFATH V P	Toulouth	Maker	Youland.	Could	Calle		Faul H	Coulde		Joelson V
54	110117104060	VELPRASANTH P	Lost	VIII VIII	vel	Val	VA		Val	Vel	Net	Wal
55	110117104501	SAJJAATH A S	Rallo.	gar.	Cor	Salino	Salm		galm	Sal	Salva	Jahr
56	110117104502	MOHAMMED NADHIM S	Whares	64/4/11	Arge Tor	1	Willer	Prog 235-	1.467 V	17.095-	4. Col. 10	Miller.
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# AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING MUTHAPUDUPET, AVADI-IAF, CHENNAI DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING COURSE NAME: LINUX SYSTEMS ADMINISTRATION



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13	110117104032	MOHAMED YAMEEN Z	YOL	1002 L	VIQU.	491	1000	YOL	1991_	1004	454	- Yes
14	110117104035	MOHAMMED JUFFRI M	Treput)	Tichni	Twa,	Tup	TUPM	Sup.	Tupa	1	LAN	- Julia
15	110117104038	MOHAMMED RAFEEQ K	R	R	R		R	R	æ_	R	RA	RY
16	110117104039	MOHAMMED THAHSEEN N	AD.	ID.	000	dis	ANZ.	W.	W.	100		Pul
17	110117104041	MUBARAK BASHA H	(M)	(NS)	(Mb)	(M)	Mo	(Mb)	(Mb)	Ma	(JD)	(de)
18	110117104042	MUHAMED NOORUL AMEEN M R	Amer-	Homes	Amer	Ann	America	Ans	Ans	Ame	Mass	
	110117104045	NOOR E ARSHIYA C	July	Mily	Alling	Asky	Antiny	Army	guray	political		Master
20	110117104046	NOOR MUHAMMED M G	Min	Nover	Neer	Noon	Now	Nes	Nou	Was		Har
21	110117104047	RASIKA NANDKISHOR MANKAR	Rank	pant	Park	Ran	Rome	Zani	levia	Panie	1	Rosell
22	110117104048	RIFAT MOHAMMED T R	Og Sange	Office of the second	age	Gy/	Officer .	Och	Poline	Other,	Olexan	Poterne.
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24	110117104050	SAFIN SIRAJ A	Nows	M	Mars	MA	Mah	May	M	Me	Male.	No.
25	110117104051	SAMRA FATHIMA S	Julian	John	John	Jarni	Jahri	Jashi	Jash	Jami		
26	110117104053	SANDHIYA V	bendhill	sanlig	wy	bunday	Bonding	Landie	bouling	Sorte	bookiss	sor Dhip
27	110117104055	SIRISHMA N	Sini	gin	Sin	Sisi	Siù	giri	Sini	Siri	Sin	Sin
28	110117104057	SWATHI N	Julia	Suathi	Sollie	Saki	Suath	Swette	Buschi	Sieth		Soughi
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32	110117104010	CHOKKAPU GANESH	Geen	Coral.	Carl	coal	Coul	Cara	Core	Con		
33	110117104011	DIVYA M	Divye	Divya	() avaa	DIMA	MAGA	Three m	Divya	Dinger	D'inga	Drige
34	110117104013	HAROON S B	Haras	40400	Horas	Harran	Hene	le er pas	Haleon	Haron	Meren	
35	110117104014	HASAN ABDUL KADER J K	Alchel	All	Dell	Maly	Nole	All	Mell	Alsh	graf	
36	110117104018	MAHESHKALA P	Dr.	B	一个	例	影	B	受	(B)	(	规处
37	110117104019	МАЛТН AL RASHEETH A	Rom	RL	RM	Rul	Pul	RN	RM	RN		Brof.
38	110117104020	MARWAN J	Harrow	* NONDO	CHEST SEEDS	NO SEE	Hower	Walness	Marada	Prices strange		1000gg
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43	110117104029	MOHAMED/RASHAD J	P	The	Quey	_	Oax	_	Deel		los	he
44	110117104033	MOHAMMED AZARUDIN A	Azl	dut	Azy	Alb	A34	- Azd	And	ASH	_	76-
45	110117104034	MOHAMMED FALIL	Joly.	Jalg.	John		fatg		falst	fatg	Jand	John.
46	110117104036	MOHAMMED MOHSIN KHAN	THE	DIS	Hills	His	W.	25	M.	JAL.	De	
47	110117104037	MOHAMMED MUSTHAFA AFRUDEEN S	Fal:	Sol	dol	Gloli	Pal.	Hal	Poli	Flat	Sh	18/2°
48	110117104040	MOHAMMED ZAID AHMED	100)	180g	Jois		Goog	Food	( sol	Post	Soil	Sind
49	110117104043	MUZAFFAR M	Miz affa	Muzaffer	Muzaffas	Misalfor		Muzaka	Muzaka	Muzatta	1,000	
50	110117104052	SANDHIYA G	South of the	South of	Soudha	Soughi	Sandlary	South of	Boudha	Sardley	Sondist	Sondu
51	110117104054	SHAHIDH AFSHAR M	Sh	Sh	Sh	Sh	Th	an	Vah	ach	8~	
52	110117104056	SUMAN RAJ R	Suma	Sumar	Suman	Charles .	Pring.	Buren	Sugar	Swiner	Praner.	Surar
<b>(</b> )	110117104059	TAJAMUL ARAFATH V P	Tarlas	Toulando	Town touth	Coulled !			Tank of	Towlord	Tolle	Grander
54	110117104060	VELPRASANTH P	1/08	WH	Wh	rag	New	Not	Vel	Met	July 1	A
55	110117104501	SAJJAATH A S	sugath	gailang	Signition	Seifen	301/09	10/0K	galfalt	Swight		eri/ ith
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# CERTIFICATE OF COMPLETION

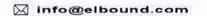
This is to certify that Mr/Ms AFREENFATHIMA A (Reg no: 110117104003) Department of Computer Science and Engineering at Aalim Muhammed Salegh College of Engineering, IAF Avadi has successfully completed the Value-Added Course on "Linux System Administration" held from 01<sup>st</sup> July 2019 to 27<sup>th</sup> July 2019.

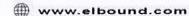
**DIRECTOR** 

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This is to certify that Mr/Ms AHAMED RIYAZ M (Reg no: 110117104004)

Department of Computer Science and Engineering at Aalim Muhammed Salegh

College of Engineering, IAF Avadi has successfully completed the Value-Added

Course on "Linux System Administration" held from 01<sup>st</sup> July 2019 to 27<sup>th</sup> July 2019.

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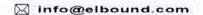
This is to certify that Mr/Ms **AHMED SUFYAN M (Reg no: 110117104005)**Department of Computer Science and Engineering at Aalim Muhammed Salegh College of Engineering, IAF Avadi has successfully completed the Value-Added Course on "Linux System Administration" held from 01<sup>st</sup> July 2019 to 27<sup>th</sup> July 2019.

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This is to certify that Mr/Ms **AKIF ABDUL AZEEM(Reg no: 110117104006)**Department of Computer Science and Engineering at Aalim Muhammed Salegh College of Engineering, IAF Avadi has successfully completed the Value-Added Course on "Linux System Administration" held from 01<sup>st</sup> July 2019 to 27<sup>th</sup> July 2019.

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This is to certify that Mr/Ms ALI ASKAR A (Reg no: 110117104007)

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College of Engineering, IAF Avadi has successfully completed the Value-Added

Course on "Linux System Administration" held from 01<sup>st</sup> July 2019 to 27<sup>th</sup> July 2019.

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