

Department of Computer Science & Engineering
VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE



Cordially Invites You to

Guest Talk

“Cloud Infrastructure and Services”

13th February, 2020

Resource Person

Mr Ajith Narayanan
Chief Technology Officer,
InfraStack Labs, Bangalore

Venue

CSE Conference Hall

Dr D Rajeswara Rao

Professor & Head

Convenor

Ms. Ch. Raga Madhuri

Assistant Professor

Coordinator

VRSEC:: DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Vijayawada

13-02-2020

To
The Principal,
V R Siddhartha Engineering College,
Kanuru, Vijayawada

Sub: Permission regarding conducting guest talk on Entrepreneurship & Startups for second year CSE students on 13th February 2020.

Sir,

The Department of CSE is proposing to conduct a guest talk on “**Entrepreneurship & Startups**” by **Mr Ajith Narayanan, Oracle ACE Associate, Chief Technology Officer, InfraStack Labs, Bengaluru** for second year CSE students at CSE seminar hall on 13th February 2020. In addition, as per our request the resource person has accepted to deliver a session on “**Cloud Infrastructure & Services**” exclusively for the Faculty members. The total estimated expenditure for this event is Rs 2000/- and the expenditure breakup details are given below for your kind perusal. In this regard, we request you to grant us permission to organize the event.

Hospitality	1000
Local Transport	500
Miscellaneous	500
Total (Five Thousand Rupees only)	2000

Thanking You

Yours Sincerely

Dw
13/2/2020
Dr D Rajeswara Rao
Prof & Head
Department of CSE

PROFESSOR & HEAD
Dept of Computer Science Engineering
V.R.Siddhartha Engineering College
VIJAYAWADA-520 007

permitted

Dr
13/2

Ajith Narayanan



Oracle & OpenStack Cloud Architect, Author, Blogger
Leader - AIOUG - Oracle RAC SIG
Ex-Website Chair (2011 - 2013) : <http://www.oracleracsig.org>
Web Seminar Chair (2015 - 2017) : <http://www.oracleracsig.org>
LinkedIn, Facebook, Twitter
Blog: <http://oracledbascriptsfromajith.blogspot.com>
Mobile +91 9008488882

SUMMARY

Based out of Bangalore, India having a total 14 Years & 2 Months of work experience as Oracle DBA, Oracle Apps DBA, Oracle ERP Platform Architect & OpenStack/AWS Cloud Architect with an expertise in Infrastructure Architecture, capacity planning & Performance tuning of mid to large Oracle & OpenStack Cloud environments.

Started the career in an Oracle applications implementation project in TCS, moved to Oracle Corporation where had opportunity to explore Oracle technology internals much deeper and develop a unique expertise in capacity planning & performance tuning by analyzing workload trends of various Oracle environments. In J.P.MorganChase & Co worked as production support DBA on Oracle databases. In Dell IT worked as software advisor/solutions architect for Oracle Apps R12 projects. In GE Healthcare, in-directly managed all technical activities of Oracle ERP Configuration Management team as Technical Leader & ERP Platform Architect for GE Healthcare.

BOOKS



Oracle SQL Developer

Learn to build complex queries, perform advanced data manipulation, and create reports in Oracle SQL Developer



Oracle SQL Developer

Publisher: Packt Publishing (January 30, 2016)

Language: English

ISBN-10: 1785281275

ISBN-13: 978-1785281273

SKILLS

OpenStack & AWS Cloud – Architecture & Administration

EXPERIENCE

↓ **InfraStack-Labs**

(Dec 2015 – Till Date)

(**Chief Technology Officer – CTO**, <https://www.infrastack-labs.com>)

As the chief technology officer my role in this organization was contractual as a freelance consultant architect and strategist to build a public cloud infrastructure and create a clear strategy of OpenSource technology adoption for the company. Below are the highlights of my activity in this organization so far.

- Implement OpenStack based public cloud infrastructure (<https://omega.infrastack-labs.com>) for India & Finland Region
- Design, build & deployment of Private cloud appliance setup for a college in Udaipur, Rajasthan (June 2019)
- Public cloud implementation for AstraGroup (NourNet Global, Jordan) - On going discussions.
- Implement Open Source Security Solutions (Tripwire, RKHunter)
- PaaS orchestration engine integration with OMegha cloud, Partnership with AppHub (European Union Funded NPO)
- Build SaaS model Open Source ERP/CRM/Monitoring applications (OFoundry, Odoo, OpenEMR, SugarCRM)
- Monitoring tools - Nagios, Zabbix, Sysstat, Munin, Cacti, Prometheus, FluentD
- Database (MySQL) – Replication & Backup strategy for cloud applications.
- SaaS applications high availability & scalability- (HAProxy, Nginx, Kubernetes Cluster, Docker Containers)
- Build strong technical team for Cloud DevOps & Open Source technologies

- OpenStack projects (Nova, Keystone Swift, Neutron, Glance, Ceilometer, Cinder, Heat, Designate, Murano)
- OpenStack -AWS Orchestration Services for Hybrid Cloud Model.
- Cloud Cyber Security - Audits, Security auditing, Compliance testing (PCI, HIPAA, SOx), Penetration testing, Vulnerability detection, System hardening, DISA-STIG compliance requirements
- Network function virtualization (NFV) (OpenDaylight integration with Openstack)
- Data visualization -ELK Cluster (Metric beat, File beat, Packet beat, Heart beat, Audit beat, X-pack)
- AWS - API Gateway - Application Load balancer - Athena - CloudFront - CloudWatch - EC2 Container Service (ECS) - EC2 Container Registry (ECR) - Elastic Compute Cloud - ElastiCache - Relational Database Service (MariaDB) - Route 53 - Simple Notification Service- Simple Queue Service - Simple Storage Service - Spot fleet
- Automation - Ansible playbooks, Shell scripting
- Hardware - Cisco UCS series, Dell Poweredge series, HP Proliant series, Cisco ASA firewall, HP Procurve switches
- Networking - VLAN, VXLAN, Linux Bridge, OpenvSwitch, GRE, Tunnel, Flat, Veth pairs, bonding etc.

Accomplishments

- End-to-End process for getting OMegha cloud certified by RedHat as Certified Cloud Service Provider (CCSP)
- Partnership with OW2 for Platform-as-a-Service Orchestration.
- Hardware procurement and provisioning
- Omega Dashboard API testing
- Three Conferences - Banking Frontiers(Mumbai), IFEX (Coimbatore), SURGE (Bangalore), OpenStack Summit (Barcelona)
- Omega Cloud Vs On-Premise Comparison Calculator
- IaaS Pricing TCO Calculator
- SaaS Pricing TCO Calculator

✦ GE Healthcare

(Dec 2013 – Dec 2016)

(Technical Leader - Oracle ERP Configuration Management & Platform Architecture)

The Oracle configuration management leader is a key member of the Oracle platform management team and is responsible for technical leadership of Oracle ERP (11i & R12) configuration management operations as well driving improvements and a long term strategy in this domain. Platform architect for couple of E-Business Suite environments responsible for controlled vitality changes including HIPAA compliance

✦ Dell IT

(Dec 2011 - Dec 2013)

(Enterprise Resource Planning Advisor - Oracle Practice)

Technical Services Team - Technical Architect for Oracle Applications 11i/R12 projects within Dell IT. Dell IT had the world's largest implementation of Oracle Application R12 with a 16 node RAC database tier & 8 Node Middle Tier along with a couple of external servers across the DMZ. The database size was about 45 TB and the instance with the latest tech stack and archival infrastructure.

✦ J.P.MorganChase - Investment Banking Technology Group

(Dec 2009 - Dec 2011)

(Database Management Analyst)

Oracle DBA for around 1500 production & non-production databases for various applications giving production support 24x7.

✦ Oracle Corporation

(Feb 2008 - Dec 2009)

(Technical Analyst)

Oracle Applications 11i, R12. Oracle 10gAS, Performance Tuning, Capacity Planning & Forecasting. Oracle Managed Cloud Services was then with 400+ customers and Capacity Management team was responsible for regular capacity analysis & performance tuning for all the customers.

✦ Tata Consultancy Services

(Apr 2005 - Feb 2008)

(Assistant Systems Engineer)

Oracle Apps 11i DBA (11.5.10) & Oracle core DBA for core banking project. L1 & L2 24x7 support for the Oracle databases and Oracle Applications 11i Servers, Patching, Monitoring

EDUCATION

Symbiosis Center for Distance Learning	PGDBA - Finance	- 2011 - 2013
Birla Institute of Technology and Science	M.S., Software Systems	- 2007 - 2009
Amrita Vishwa Vidyapeetham	B.E., Electronics & Communication Engg	- 2001 - 2004
Sree Narayana Guru Institute of Technology, CBE	DCT., Diploma In Computer Technology	- 1998 - 2001
Kendriya Vidyalaya	SSE – 10 th Std	- 1997 - 1998

ORACLE USER COMMUNITY ACTIVITIES

- ↓ Served the board of an ORACLE RACSIG as website chair (Sep-2011 to Sep-2013), successfully migrated the RACSIG website from APEX version 3.0 to APEX version 4.1 and continuing his support within capacity to the Oracle Real Application Clusters SIG dedicated to RAC enthusiasts.
- ↓ Member of OAUG & IndiaOAUG.
- ↓ AIOUG (Volunteer & Member)
- ↓ RACATTACK volunteer and supporter.

ORACLE CONFERENCES & PRESENTATIONS

- 1) SANGAM-12, Bangalore, India, November 2012
 - ↓ Oracle EBS Capacity Analysis Using Statistical Methods
- 2) NZOUG-13, Wellington, New Zealand, March 2013
 - ↓ Create Your Oracle Apps R12 Lab With Less Than US\$1000
 - ↓ Why Is My Oracle E-Biz Database Slow? A Million Dollar Question
- 3) AIOUG-13 Tech Day, Bangalore, India, June 2013
 - ↓ Introduction to RAC System Test Planning Methods
- 4) SANGAM-13, Hyderabad, India, 8-9 Nov 2013
 - ↓ Best Practices For Large Oracle Apps R12 Implementations
- 5) DOAG-13, Nuremberg, Germany 19-21 Nov 2013
 - ↓ Oracle Database Capacity Analysis Using Statistical Methods
- 6) OTN Yathra, Mumbai & Bangalore, India, Feb 22nd & Feb 27th.
 - ↓ RAC 'n' ROLL Hands on Lab (HOL) session
 - ↓ Oracle Real Application Clusters System Tests With Demo
- 7) SANGAM-14, Bangalore, India, 8th & 9th Nov, 2014.
 - ↓ Crack The Complexity Of Oracle Applications R12 Workload
- 8) OTN APAC Tour 2014, Bangkok, Thailand 17th Nov 2014
 - ↓ How Oracle 12c Flexes Its Muscles Against Oracle 11gR2
- 9) UKOUG - APPS14, Liverpool, U.K. 8th Dec, 2014
 - ↓ Best Practices for Large Oracle Apps R12 Implementations
- 10) OTNYathra -2015, Mumbai, India, 19th Feb 2015
 - ↓ Analyze Database System Using a 3D Method
- 11) OTNYathra -2015, Bangalore, India, 25th Fe 2015
 - ↓ Oracle Applications R12.2, EBR, Online Patching - Means Lot Of Work For Developers
- 12) OpenStack Summit-2016, Barcelona, Spain, 25th Oct

Whitepapers

- 1) Oracle Database Capacity Analysis Using Statistical Methods
- 2) Anatomy of Linux Server Memory Utilization
- 3) Anatomia do Linux Servidor de utilização da memoria - (Oracle Technology Network (OTN) - Portuguese)
- 4) Oracle Database Análise de Capacidade Usando Métodos Estatísticos - (Oracle Technology Network (OTN) - Portuguese)
- 5) Procedimiento para cambiar IPs de servidores en RAC11gR2 - (Oracle Technology Network (OTN) - Spanish)

Personal Details

Date of Birth	-	04 th -Jan -1983
Marital Status	-	Married
Nationality	-	Indian
Languages	-	Malayalam, Tamil, Hindi, English
Current Address	-	Flat K118, Kaveri Block, Tirumala Sarovar Apartments, Singasandra Bangalore - 560068
Permanent Address	-	Narayaneeyam, Aishwarya Nagar, Kavilpad, Palakkad - 678012

Date:
Place: Bangalore

Velagapudi Ramakrishna Siddhartha Engineering College (Autonomous)

Kanuru, Vijayawada, Andhra Pradesh - 520 007

Department of Computer Science & Engineering

Guest Talk on

"CLOUD INFRASTRUCTURE AND SERVICES"

13th FEBRUARY, 2020



S.No	Name	Designation	Department	Email ID	Mobile Number	Signature
1.	Dr. M. Sobhana	Senior Asst. Prof	CSE	msobhana80@gmail.com	9440696550	
2.	Ch. AnuRadha	Asst. prof	CSE	anuradha.chintat@gmail.com	9494640752	
3.	S. Rajeswari	Asst. Prof	CSE	rajeswari.SCHi@gmail.com	9493644531	
4.	Dr. G. Anuradha	Associate prof	CSE	ganuradha@vrsiddhartha.ac.in	8008227273	
5.	V. Deepa	Asst. Prof	CSE	vdeepa@vrsiddhartha.ac.in	9703152844	
6.	M. Sailatha	Asst. Prof	CSE	msailatha.mancam@gmail.com	8019334746	
7.	Dr. Ch. Rupa	Professor	CSE	rupamtech@gmail.com	9848690640	
8.	Dr. S. Vesari	Professor	CSE	Vesari.murug@gmail.com	9441063166	
9.	Ch. Raga Madhuri	Asst. Professor	CSE	madhuri.chandrasai2009@gmail.com	9490067481	
10.	Dr. Ramesh Kumar P	Asst. Professor	CSE	ramesh.kumar@vrsiddhartha.ac.in	9849577516	

S.No	Name	Designation	Department	Email ID	Mobile Number	Signature
11.	Mukesh Chinta	ASST Prof	CSE	mukesh.chinta@vrsiddhartha.ac.in	9052222633	Ch
12.	RANGA RAO JALLEDA	Asst. prof	CSE	rangaraoj@gmail.com	9963657819	
13.	V V N V PRANIKUMAR	ASST Prof	CSE	phanikumav.venna@gmail.com	9866 90 9839	Phanikumar
14.	En. K. Kishore	Assoc. Prof	CSE	gkk@vrsiddhartha.ac.in	9963926578	K
15.	G. Kranthi Kumar	Sr. Asst Professor	CSE	kranthi@vrsiddhartha.ac.in	9885446676	Gyan
16.	Jayanag Bayana	sr. Asst Professor	CSE	Jayanag b@vrsiddhartha.ac.in	9849 22 3388	Jayanag
17.	S. RAJESH	ASST. Prof	CSE	srajesk@vrsiddhartha.ac.in	9440432904	R
18.	Master Mohan	ASST Prof	CSE	masterm59@gmail.com	9505328048	M
19.	A RABHU VIRA PRATAP	ASST. Prof	CSE	pratapadinulam@vrsiddhartha.ac.in	9703798098	Ar
20.	Abhinav Kumar. G	ASST. Prof	CSE	abhinavkumar.gogee@gmail.com	9952254714	Abhinav
21.	PRABU. U.	ASSISTANT PROFESSOR	CSE	UPRABU28@GMAIL.COM	9789688041	Prabu
22.	K. L. Satej	Assistant Professor	CSE	sateja0905@gmail.com	9490886718	Satej
23.	S RAVI KISHAN	Associate Prof	CSE	suraki@vrsiddhartha.ac.in	9866869717	Ravi
24.	DR. Rizwan Patan	Asst. Prof.	CSE	rizwan@vrsiddhartha.ac.in	9700266476	R. Patan

S.No	Name	Designation	Department	Email ID	Mobile Number	Signature
25.	N. Sunny	Asst. Prof	CSE	nallusisunny@gmail.com	9000461500	N. Sunny
26.	V. Sandeep (V-SANDHEEP)	Asst. Prof	CSE	sandeep.venuri@gmail.com	949 2963 279	V. Sandeep
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VRSEC:: DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Vijayawada

14-02-2020

To
The Principal,
V R Siddhartha Engineering College,
Kanuru, Vijayawada

Sub: Bills submission regarding Guest talk on “Cloud Infrastructure and Services” on 13th February 2020.

Sir,

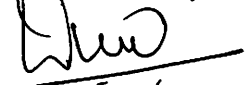
The Department of CSE has successfully organized a guest talk on a guest talk on “**Entrepreneurship & Startups**” for second year CSE Students. A total of 165 students attended this guest talk. Also, we organized another guest talk on “**Cloud Infrastructure & Services**” exclusive for the faculty members. A total of 25 Faculty members have attended this guest talk. **Mr Ajith Narayanan, Oracle ACE Associate, Chief Technology Officer, InfraStack Labs, Bengaluru** has acted as the resource person for the events and delivered the lecture. In this regard, we thank you for providing us the permission and hereby submit the bill related to the operational expenses along with the report and permission letter.

The total expenditure is Rs 1024/- and the summary of bills is given below. We kindly request you to reimburse the amount.

Hospitality (Snacks, Lunch and Tea)	724
Travel Expenses (College to Airport)	300
Total (One Thousand and Twenty Four Rupees only)	1024

Thanking You

Yours Sincerely



Dr D Rajeswara Rao
Prof & Head
Department of CSE

PROFESSOR & HEAD
Dept of Computer Science Engineering
V.R.Siddhartha Engineering College
VIJAYAWADA-520 007

CAPITAL SUPER MARKETS
 10-122, ASHOK NAGAR,
 VIJAYAWADA, ANDHRA PRADESH-520007
 PH NO: 7330666684
 GSTIN:37AAKFC1341A1Z1

Pos : 7 User : ADMIN Bill : 00000503
 Date : 12/02/2020 Time: 20:43:21

Description	Qty	Rate	Amount
PARLE MILAN	1.000	29.10	29.10
SGST@9.00%	2.22	CGST@9.00%	2.22
MARINO COOK	1.000	9.36	9.36
SGST@9.00%	0.71	CGST@9.00%	0.71
CADBURY ORE	1.000	9.36	9.36
SGST@9.00%	0.71	CGST@9.00%	0.71
MARINO SLICE	1.000	15.00	15.00
SGST@9.00%	1.14	CGST@9.00%	1.14
PARLE MONAC	1.000	60.00	60.00
SGST@9.00%	3.66	CGST@9.00%	3.66
** Discount **			-12.00
BRITANNIA G	2.000	105.00	210.00
SGST@9.00%	13.73	CGST@9.00%	13.73
** Discount **			-30.00
DC CARRYBAG	1.000	4.00	4.00
SGST@9.00%	0.31	CGST@9.00%	0.31

Items/Qty : 7/ 8.000
 TOTAL RS 294.82

Tendered-HDFC RS 294.82

Percent	Qty	Amount	Tax Amt
18.00 %	8	RS 249.85	44.97
SGST@9.00%	22.49	CGST@9.00%	22.49

*** Schemes ***

Description	Qty	Disc %	Disc Amt
Item Sales Value			
MARINO SLICE CA	1.00	0.00	0.00
PARLE MONACO CL	0.00	0.00	15.00
BRITANNIA GOOD	0.00	0.00	15.00

On MRP in Capital you save RS 44.18

***** VISIT AGAIN *****

**Velagapudi Rama Krishna
Siddhartha Engg. College Canteen**

TD
VRSEC (Campus, VZA)
19th Principal
Date: 14/02/2020

Sl. No.	PARTICULARS	Rate	Total Amount
	12/2/20 TD		
	13/2/20		
	Lunch		430.00
	Snacks		
	Tea		
	Total		430.00
	Paid		

Signature

DEBIT VOUCHER

Dt. 13/02/2020

VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE

VIJAYAWADA - 520007.

No.

Account Head: Local travel Expenses

Received the sum of Rupees Three hundred -

..... and Paise only

towards dropping charges of resource person of
Guest talk on "Cloud Infrastructure & Services"
organized by Dept of CSE on 13th Feb 2020

Rs. 300 Ps. -

Actt.

Principal.


 Sig. of the Receiptant.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
VR SIDDHARTHA ENGINEERING COLLEGE
(Autonomous)
REPORT

GUEST TALK

ON

CLOUD INFRASTRUCTURE AND SERVICES

To provide a platform for the faculty to explore and adapt to the Cloud Infrastructure and their services, **Department of CSE, VRSEC** conducted a guest talk successfully on 13th February 2020. This guest talk is initiated with the opinion of having an on-Premises private cloud for VRSEC.

The Guest talk was addressed by an industrial expert **Mr.Ajith Narayanan, Chief Technology Officer, InfraStack Labs, Bangalore**. He is a Certified OpenStack Administrator (COA) & Oracle ACE Associate.

He is based out of Bangalore, India and has a total 14 Years & 2 Months of work experience as Oracle DBA, Oracle Apps DBA, Oracle ERP Platform Architect & OpenStack/AWS Cloud Architect with an expertise in Infrastructure Architecture, capacity planning & Performance tuning of mid to large Oracle & OpenStack Cloud environments. Started the career in an Oracle applications implementation project in TCS, moved to Oracle Corporation where had opportunity to explore Oracle technology internals much deeper and develop a unique expertise in capacity planning & performance tuning by analyzing workload trends of various Oracle environments. In J.P.MorganChase & Co worked as production support DBA on Oracle databases. In Dell IT worked as software advisor/solutions architect for Oracle Apps R12 projects. In GE Healthcare, in-directly managed all technical activities of Oracle ERP Configuration Management team as Technical Leader & ERP Platform Architect for GE Healthcare.

The main insights of the guest talk are:

- Introduction to Cloud Computing and its services
- Cloud Infrastructure and its types
- Introduction to OpenStack

- Inception OpenStack Services and its Components
- Nova
- Cinder
- Heat

The main motivation of the guest talk is to make use of the OpenStack and its various services by the faculty and to explore them to the student community for their projects. A total of 26 Faculty from Computer Science and Engineering have participated for this Guest talk.

The contents covered during the session are:

Introduction to InfraStack-Labs & OMegha public cloud
Introduction on OMegha Architecture & Cloud computing
Controller Services
Compute Services
Networking Services
Block Storage Services
Object Storage Services
Glance through Infrastructure -as -a -Service(IaaS)
Introducing Our Platform-as-a-Service (PaaS)
Lightning Apps Market place
Student Projects & Orchestration Engine
OMegha SaaS offering on ERP, CRM & EMR
Sneak peak at OMegha dashboard
OMegha cloud provisioning
Public Vs Private Vs Hybrid Cloud



