

FDP on Cloud App Development with Red Hat Openshift – reg

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Tue 8/1/2023 4:23 PM

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Ref: KLEF/RO/Academics/2023-24

1st August 2023

Orders of Hon'ble Vice-Chancellor Dt. 01-08-2023

OFFICE CIRCULAR

Sub: FDP on Cloud App Development with Red Hat Openshift – reg.

Ref: 1. Letter dt.31-07-2023 from Additional Dean (Academics)
2. Orders of Hon'ble Vice-Chancellor dt. 01-08-2023

This is to inform that Office of Dean Academics & Academic Staff College, KLEF along with IBM-Smartbridge is conducting an FDP on Cloud App Development with Red Hat Openshift for KLEF Faculty as well other University / Institutes faculty whoever wants to participate under the "scheme of Andhra Pradesh| FDP|IBM-Smart Bridge| June-Aug'23"

Event Details:

Name	: IBM In-Person Faculty Buildathon 2023
Date	: 23.08.2023 to 27.08.2023
Mode of Conduction	: Offline
Venue	: Will be intimated separately
Faculty to register	: Before 18 th August 2023 6.00 p.m.
Through Registration Link	: https://bit.ly/IBM_SB_KLU_FDP

This event provides a unique platform for us to explore new ideas, experiments with emerging technologies, and create tangible solutions to real-world challenges.

Contact person: Dr. Nilu Singh, Emp.No.6415, Associate Professor, CSE (Honours) & IBM SPoC - Email id: nilusingh@kluniversity.in;

Note: No registration fee and after the completion, Certificate will be provided.

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Mail to: Additional Dean (Academics)

All Faculty of Engineering, Vaddeswaram Campus

Thanks & Regards



Dr. K. Subba Rao

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Phone No. 08645 - 350200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in



Academic
Staff College



ONE WEEK FDP Program on

"CLOUD APP DEVELOPMENT WITH RED HAT OPEN SHIFT IBM"

FACULTY BUILD-A-THON (IN-PERSON)

On
23-08-2023 TO
27-08-2023

RESOURCE PERSONS

1. Mr. K. Mosha
2. Mr. Mohammad Shanawaz Anwar

VENUE: R607

ORGANISED BY
Academic Staff College

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Report on One-week Faculty Development Program on “Cloud App Development with Red Hat Open Shift”

Date(s) of conduct: 23-8-2023 to 27-8-2023

Timings: 9:30 Am to 5:00 PM

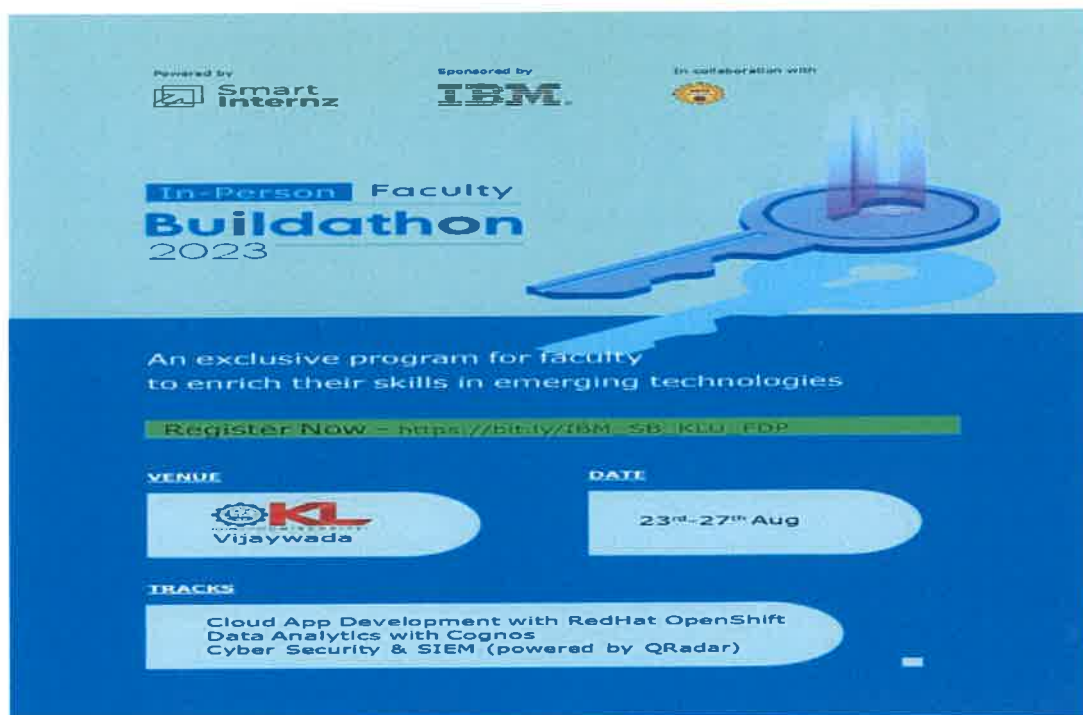
Venue: R& D Building _R607

The Academic Staff College, KLEF organized a one-week Faculty Development Program on “Cloud App Development with Red Hat Open Shift” sponsored by IBM, India, from 23-8-2023 to 27-8-2023. The FDP was conducted to equip faculty members, researchers, and industry professionals with a comprehensive understanding of cloud computing principles and practical skills in deploying and managing cloud applications using Red Hat OpenShift. This program aimed to bridge the gap between theoretical knowledge and practical implementation, enabling participants to leverage cloud technologies effectively in their academic and professional endeavors. By providing hands-on training, real-world case studies, and expert insights, the FDP sought to foster innovation, enhance teaching methodologies, and promote the adoption of advanced cloud solutions in various industries.

Dr. I. Govardhani, Principal, Academic Staff College, welcomed all participants and provided an overview and structure of the FDP. She also introduced the resource persons.

Day 1: August 23, 2023, Mr.K.Mosha, IBM, India.

The session was handled by Mr. K. Mosha, IBM, India covering Basics of cloud computing: Definition, characteristics, and benefits. Cloud service models: Infrastructure as a Service (IaaS), Platform as a Service (PaaS), Software as a Service (SaaS), Cloud deployment models: Public, private, hybrid, and community clouds, Overview of Red Hat OpenShift:



Features, architecture, and components, Comparison with other container orchestration platforms. The session also included Prerequisites for setting up OpenShift, Step-by-step installation of OpenShift Container Platform, Initial configuration and cluster setup and Hands-on exercise on Installing OpenShift on a local machine or cloud provider.

Day 2: August 24, 2023, Mr.Mohammad Shanawaz Anwar

Day-2 session was handled by Mr.Mohammad Shanawaz Anwar, covering OpenShift project and application concepts, Creating and managing projects in OpenShift, Building applications using the Source-to-Image (S2I) process, Deploying applications: Deployment strategies and configurations, Hands-on exercise: Creating and deploying a sample application, Session 4: Managing Containers with Kubernetes, introduction to Kubernetes: Core concepts and architecture, Understanding Pods, ReplicaSets, and Deployments, Services, Ingress, and networking in Kubernetes, Managing resources and scaling applications, and hands-on exercise on Managing containers and resources using Kubernetes commands in OpenShift.



Mr.Mohammad Shanawaz Anwar addressing the participants

Day 3: August 25, 2023, Mr.K.Mosha, IBM, India.

Scaling applications: Horizontal and vertical scaling, monitoring and logging: Tools and best practices, Resource quotas and limits, Persistent storage and volume management, Hands-on exercise: Implementing scaling, monitoring, and logging for an application. Introduction to Continuous Integration and Continuous Deployment (CI/CD): Concepts and benefits, Overview of OpenShift Pipelines: Architecture and components, Building CI/CD pipelines using Jenkins and Tekton, automating application builds, tests, and deployments and hands-on exercise on setting up a CI/CD pipeline for a sample application.

Day 4: August 26, 2023, Mr.Mohammad Shanawaz Anwar

Security best practices in OpenShift. Authentication and authorization: Role-Based Access Control (RBAC), Network policies and security groups, Compliance requirements and tools, Hands-on exercise on Implementing security measures and policies, Presentation of real-world case studies, successful implementations of OpenShift in various industries, Discussion on industry applications: E-commerce, finance, healthcare, etc.

Day 5: August 27, 2023

Common issues in OpenShift deployments and their solutions, Tools and techniques for troubleshooting OpenShift environments, Performance tuning: Best practices and optimization strategies, Hands-on exercise: Troubleshooting and optimizing a sample application. interactive session: Participants sharing their experiences and challenges, an Expert panel addressing participant queries and providing solutions, Discussion on future trends and advancements in cloud application development with OpenShift.



Mr.Mosha addressing the faculty

On the last day, Principal Dr. I. Govardhani, has given the summary of key takeaways from the FDP, highlighting the importance of continuous learning and professional development. Few

participants provided feedback on the program. The program ended with Vote of thanks from Dr. Jaya Prakash, Jala, Academic Staff College.


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R610

Cloud Application Developer with RedHat OpenShift		Day 1		Day 2		Day 3		Day 4		Day 5	
SN	Faculty Name	I	II	I	II	I	II	I	II	I	II
1	Yuktesh										
2	Dr.V.Naresn	Ⓚ	Ⓚ	Ⓚ	Ⓚ	Ⓚ	Ⓚ	Ⓚ	Ⓚ		
3	LAKSHMANA PHANEENDRA MAGULURI										
4	Dr. A. Raja Basha	A	A	A	A	A	A	A	A		
5	Dr P Vidya Sagar										
6	Dr. Fazai Noorbasha										
7	B Namasivayam			Ⓚ	Ⓚ	Ⓚ	Ⓚ	Ⓚ	Ⓚ		
8	ANUMULA SRUTHI										
9	SK.Sanjeera										
10	Dr. ADAPA GOPI										
11	Dr Vithya Ganesan	Ⓚ	Ⓚ	Ⓚ	Ⓚ	Ⓚ	Ⓚ	Ⓚ	Ⓚ		
12	K V RAVITEJA			Ⓚ	Ⓚ	Ⓚ	Ⓚ	Ⓚ	Ⓚ		
13	BONAM ANU SAI SURYA KUMARI										
14	THELIA PREETHI PRIYANKA										
15	GARGIPATI RAMA KRISHNA										
16	Dr.S.Kavitha	Intu	Intu	Intu	Intu	Intu	Intu	Intu	Intu		
17	Dr. Gogineni Krishna Chaitanya										
18	Miriyala Markandeyulu										
19	Annamaraju tharaju										
20	VARASU MADHAVILATHA										
21	M Ram Kumar										
22	Malik Shanzad Ahmed Qabai										
23	Vinnakota Sai Durga Tejaswi	dej	dej	dej	dej	dej	dej	dej	dej		
24	Dhan										
25											

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		Day 1	Day 2	Day 3	Day 4	Day 5
27	PAJEEV KUDARI					
28	THOTA SUDHEER BABU					
29	Bala Krishan					
30	Dr.K.V.D.Sagar					
31	DRAKSHAYANI SRIRAMSETTI	S.D.	S.D.			
32	SRIKANTH MYLAPALLI					
33	Bhaskar Marapeili					
34	DR.K.KIRANKUMAR					
35	B.KrishnaPrasad					
36	B V N Prasad Paruchuri	Bu	Bu			
37	Dr.S.Srithar	SS	SS	SS	SS	SS
38	SRIKANTH MYLAPALLI					
39	Raveendra Reddy Enumula					
40	B V N Prasad Paruchuri					
41	Dr N Srinivasu					
42	Pravallika bhashyam					
43	SuneethaGudapati					
44	V Ramesh Babu					
45	S N V JYOTSNA DEVI KOSURU	KJ	KJ	KJ	KJ	KJ
46	Suneetha Bandeela	SB	SB	SB	SB	SB
47	Chava.Swathi	CS	CS	CS	CS	CS
48	Anusha Peruri	AP	AP	AP	AP	AP
49	Jonnalagadda Surya Kiran					
50	RUPANI RANJITH KUMAR	RR	RR			
51	RAVIKUMAR SETHURAMAN	RS	RS	RS	RS	RS
52	Anjana Devi Nandani					
53	BAKKALA SANTHA KUMAR	SK	SK	SK	SK	SK
54	Dr A.HANUMAT PRASAD					
55	DEVARAPALLI SEKHAR BABU					

Dr. Satish
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SIVAKRISHNA KONDAVEET

Yampati Bhagyalakshmi

Dr Vijay Kumar burugari

Gobinda Chandra Das

Punyala Ramadevi

B KEERTHI SAMHITHA

Dr.S.Hrushikesava Raju

Mounika.V

Dr. SHAIK KHAJA MOHIDDIN 8093

Anwar Ahamed Shaikh 8081

Ayyalasomayajula Somayajulu

Bakeeru Mery Sowjanya

Rajesh Bingu

Bandlamudi Arun Kumar (8055)

Nyakapu Rajender

DRAKSHAYANI SRIRAMSETTI

Dr. Manju Lata

V.NANDINI

Santosh Kumar

V.Prasanthi

Sarihaddu kavitha

R JYOTHSNA

DRAKSHAYANI SRIRAMSETTI

R S M Lakshmi Patibandla

Lavanya chapparapu

Rupani Ranjith Kumar

Dr.J.Vijaya Chandra

R S M Lakshmi Patibandla

Dr. ADAPA GOPI

A.Somatajulu

BAKKALA SANTHA KUMAR

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Sl No	Name	Day 1	Day 2	Day 3	Day 4	Day 5
91	D SURESH KUMAR					
92	Dr Venkateswara Rao katakam					
93	Bhawana Kumawat					
94	Shashi Maurya					
95	Kavitha Sarihaddu					
96	Namasivayam-B					
97	Dr. Deepak. V					
98	Arumalla Naga Raju					
99	Dr A V Nageswararao					
100	Dr. Mohammad Ishrat					
101	Dr. Mohammad Ishrat					

102 Dr. Viswanathan Ramasamy Reddy

103 B. Pramela Rani

104 Dr. B. Annapurna

105 Dr. Anuradha Chokka

106 Dr. P. Ullasamma

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26 + 3
 day 2-25

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Ravikumar Sethuraman

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