

NIC-CENTRE OF EXCELLENCE ON MICROSERVICES – KOCHI

Residential Training Programme on Microservices : 2nd to 6th December 2024

The 7th batch of NIC Officers completed the technology update programme on Microservices and DevOps from NIC Centre of Excellence on Microservices (NIC-CEM) Kochi. The 5 days residential training programme was organized from 2nd to 6th December 2024 by NIC Training Division in association with CEM. Thirty participants from NIC pan India attended the programme.



Inauguration by Shri. Manoj P. A., HoD CEM

The programme was formally inaugurated by Shri. Manoj P A, HoD, NIC CEM and Smt. Parvathi Devi P, Sc.-F & Training coordinator, NIC CEM extended a warm welcome to all the participants.

Residential Training Programme on Microservices and DevOps

Technical Update Programme by Training Division NIC HQ from 02-06 December 2024
NIC Centre of Excellence on Microservices Kochi Kerala



Sitting L-R: 1. Novotosono Natso 2. Pallavi Verma 3. Raphie P.J 4. Sreelatha S. 5. Jayashree Suresh 6. Manoj P.A HoD NIC CEM 7. Parvathi Devi P Training Coordinator 8. Jeena Mathew 9. Meenu Abby Abraham 10. Pritam Kumari 11. N Kavitha
Standing 1st Row L-R: 1. Shubham Kumar 2. Vikrant Nawani 3. Anant Lal 4. Anil Kumar Dogra 5. Mayank Goyal 6. Sandeep Kumar Jaiswal 7. Rajendra Singh Gaur 8. Jagan Nath Chanchal 9. Shakti Prasad Raturi 10. Sankalpa Roy 11. SunilKumar A.R 12. Shamsath Haseena
Standing 2nd Row L-R: 1. Sampath Kumar V 2. Rahul Barua 3. Prashant Sharma 4. Prabhhash Debnath 5. Mukesh Kumar Bhatia 6. Md Tufail Khan 7. Jahan J V S 8. Sourav Samaddar 9. Gopal Krishna
Standing 3rd Row L-R: 1. Brijiendra Yadav 2. Faiz Ali Khan 3. Teekaram Meena 4. Rajeev Kumar 5. Santosh Chouhan 6. Abhishek Mali 7. Sanjay Singh Negi

Sessions on Basic Concepts & Principles of Microservices, DevOps, various patterns used, migration of monolithic architecture to MSA, Identification of Services, Database management, Communications, demonstration of Kafka for Communication in MSA, Container Technology, Multi-Container Deployment, Docker, Practical on Docker with various languages/frameworks, Rabbit MQ etc. were covered by NIC-CEM faculties. The participants were introduced to DevOps Project Management tools like Git and Jenkins by Mr. Vipin Bose, NIC Kerala State Centre(Online). RTP Batch-2 Participant, Mr. Ashwini Kumar Tiwari from Mail & Messaging Division, NIC HQ demonstrated RabbitMQ,

Mr. Prahlad Kumar Jat, NIC Rajasthan State Centre and RTP Batch-1 participant, shared the knowledge in adopting Microservices Architecture & DevOps in migrating IFMS application to MSA. Mr. Kashish Bakshi, Cloud Technology Division, NIC HQ introduced latest NIC DevOps Resources followed by Mr. Pawan Kumar on workload deployment

AWS Inc. delivered sessions on Container Orchestration and deployment of modernized application on Kubernetes alongwith hands-on by the participants.



An online test for the participants was conducted in association with NIC Odisha State Centre. All participants fared well in the test. Mr. Teekaram Meena, Scientist-B, NIC Rajasthan and Mr. Abhishek Mali, NIC HQ, Scientist-B scored top marks in the online test.

A competition on PoCs was held on the last day of the training forming six teams. All teams presented their PoC well. The evaluation panel chaired by Smt. Jeena Vinod Mathew, Scientist-F and members from CEM evaluated the PoC presentations based on the concepts / innovative ideas, suitability for MSA, identification of services, tools / languages / frameworks proposed /used and presentation skills. The teams were allocated with the eGovernance project topics to study and come out with MSA implementation.

An internal portal was set ready for the participants to explore training details and other materials of reference. Everyday project discussions were held to interact between teams in sharing the ideas and clearing the concepts.

Winners of PoC presentation:

First Position:

Team-2 : Shri Shubham Kumar, Scientific/Technical Assistant-B, Uttar Pradesh, Shri Gopal Krishna, Scientist-B, Andaman, Shri Mukesh Kumar Bhatia, Scientist-B, Delhi Shri Rajeev Kumar, Scientist-C, Bihar and Shri Shakti Prasad Raturi, Scientist-D, Uttarakhand presented Integrated City Command Control System for eGovernance context from the selected project topics.

Second Position:

Team-5 : Shri Santosh Chouhan, Scientific/Technical Assistant-B, Delhi, Shri Prashant Sharma, Scientist-B, Bihar, Shri Rajendra Singh Gaur, Scientist-C, Delhi, Shri Mayank Goyal, Scientist-C, Uttar Pradesh, Shri Sankalpa Roy, Scientist-D, West Bengal presented Public Safety and Emergency Management.

Third Position:

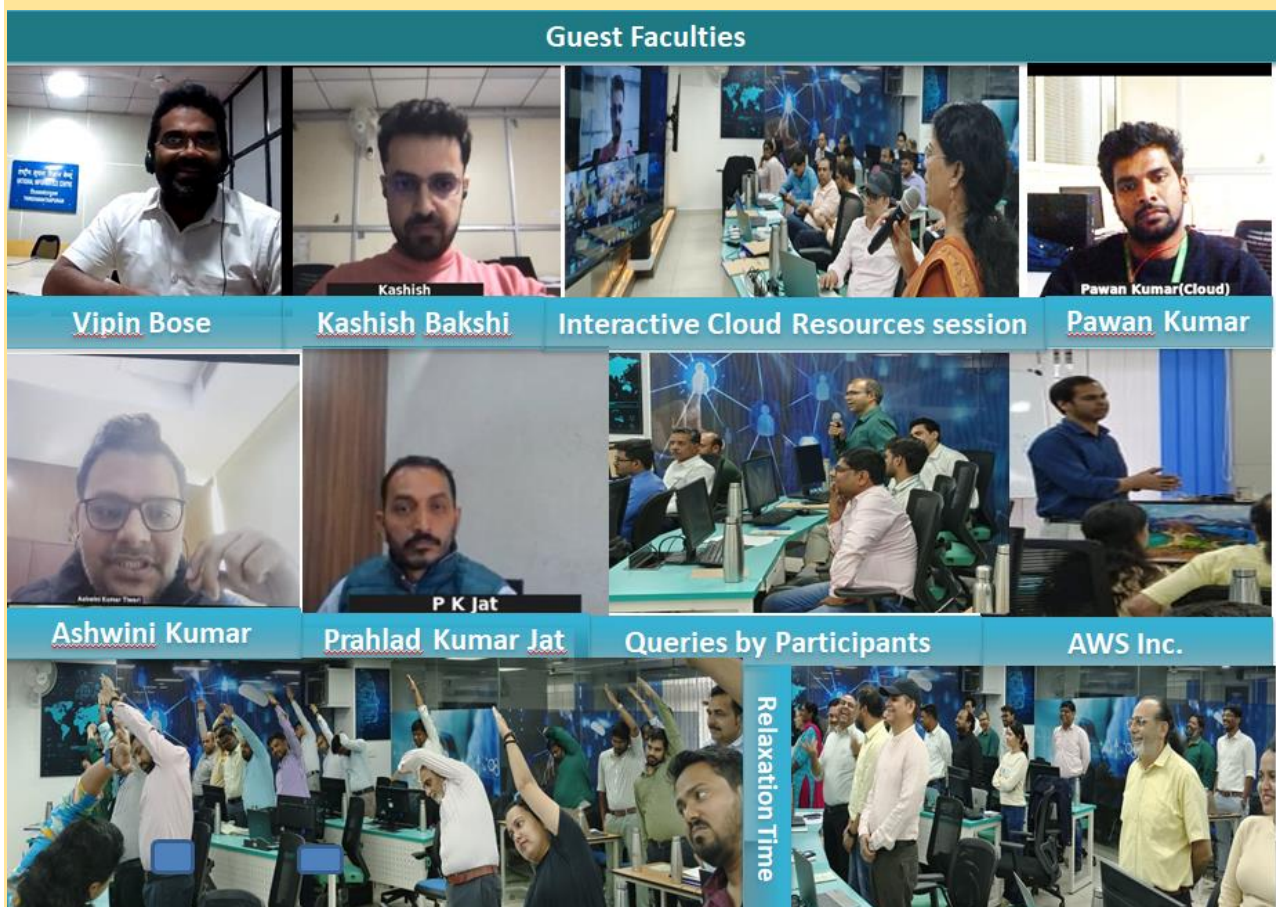
Team-4: Shri Jahan J V S, Scientific/Technical Assistant-B, Tamil Nadu, Shri Abhishek Mali, Scientist-B, Delhi, Shri Jagan Nath Chanchal, Scientist-C, Delhi, Ms Novotsono Nats, Scientist-C, Nagaland and Shri Prabhash Debnath, Scientist-D, Tripura presented Traffic Management Systems.

Prizes were distributed to the members of the team, who won first three positions, during the valedictory function. All other participants were given consolation prizes.

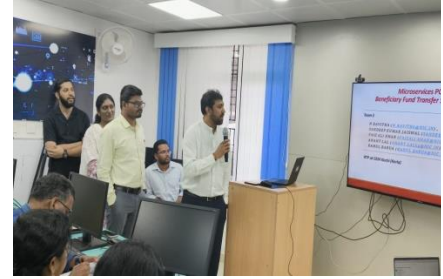
The training programme concluded with distribution of participation certificates and a copy of group photo to all, followed by Vote of Thanks by Smt. Jeena Vinod Mathew, Scientist-F, NIC CEM. HoD CEM joined the concluding session over VC and collected training feedback from the participants.

Glimpses of Sessions

Technical Sessions



PoC Glimpses:



PoC Prize Winners alongwith CEM –members



1st Prize

2nd Prize

3rd Prize

NIC-CEM Kochi