

A Report on Three Days Hand's on Training Program on "Cloud Computing with Amazon Web Services" Organised by Department of Computer Science & Engineering In Association with ISTE Chapter, MITS Date: 19.02.2024 to 21.02.2024



Submitted by: Dr. R. Sundar, Assistant Professor, Dept. of CSE; Dr. G. Arun Kumar, Associate Professor, Dept. of CSE Resource Person: Mr. D. Anand Swaroop Kumar, Senior Manager, Adams bridge Global, Chennai. Venue: Seminar Hall – B & Circular block : Lab No : 11 Mode of Conduct: Offline Report Received on 11.03.2024 Time: 9:30 AM – 4:30 PM Attendance: III-year Students – 70 students Inauguration of Event

- 1. Inaugural function Begins
- 2. Lighting of the Lamp & Prayer Song

#### Opening Remarks by Dr. R. Kalpana – Professor & Head – Dept of CSE – MITS

HOD madam Given the opening remarks by Welcome Vice Principal, Dean, Coordinators and students to our Hands-on Training on Cloud Computing with Amazon Web Services (AWS). Over the next few days, we'll delve into the world of AWS, gaining practical skills and insights to leverage cloud technology effectively. This training is designed to equip you with the tools and knowledge needed to excel in today's digital landscape. I encourage active participation and collaboration throughout the sessions. Let's make the most of this opportunity to enhance our understanding and proficiency in AWS.

#### Inaugural Address by : Prof . Prof . Goutam Chakraborty -Distinguished Professor and Dean- Dept of CSE - MITS

And uncover the countless services and solutions offered by AWS, from computer and storage to machine learning and analytics. This training represents a pivotal opportunity to acquire practical skills, deepen our understanding, and unlock the vast potential of AWS. Let us approach this endeavour with enthusiasm, curiosity, and a commitment to learning. Together, let us embrace the challenges, explore the possibilities, and forge new pathways towards success. I extend my warmest welcome to each of you, and I look forward to the journey ahead.

#### Special Inaugural Address : Dr. P. Ramanathan - Vice Principal - MITS

This event symbolizes not just a mere gathering but a convergence of minds, aspirations, and possibilities. It's an invitation to embark on a journey of exploration, growth, and transformation. Let us embrace this moment with a sense of purpose, enthusiasm, and determination. Together, let us unlock the doors to innovation, leverage the power of technology, and shape a future defined by ingenuity and collaboration. I extend my heartfelt gratitude to each one of you for being a part of this inspiring endeavor.

#### Resource Person Introduction : Dr. R. Sundar – Asst. Prof – Dept of CSE – MITS.

It is my distinct honor and privilege to introduce to you our esteemed resource person for today's event, Mr. D. Anand Swaroop Kumar. Mr. D. Anand stands as a beacon of knowledge and expertise in their field, with a career marked by remarkable achievements and contributions. As a renowned educator, has dedicated their life to advancing the frontiers of knowledge and fostering excellence in their discipline. With a wealth of experience spanning decades, Mr. D. Anand brings a unique perspective to the table, enriched by their deep understanding and nuanced insights into the subject matter. Throughout their career, Mr. D. Anand has made significant contributions to the field, whether through groundbreaking transformative teaching methodologies. Beyond their professional accomplishments, Mr. D. Anand is known for their unwavering dedication to mentorship and collaboration, always willing to lend a helping hand and share their expertise with others. Their generosity of spirit and genuine passion for the subject are infectious, leaving an indelible mark on all those fortunate enough to have crossed paths with them. In conclusion, it is with great enthusiasm and anticipation that we welcome Mr. D. Anand as our resource person for today's event. We are confident that their insights, expertise, and wisdom will enrich our discussions and inspire us to reach new heights of excellence. Please join me in extending a warm welcome to Mr. D. Anand.

#### Inaugural Address by . Recourse Person : Mr. D. Anand Swaroop Kumar, Senior Manager, Adams bridge Global, Chennai

As the Resource Person, I am privileged to inaugurate our "Hands-on Training on Cloud Computing with Amazon Web Services (AWS)". This occasion heralds a significant step forward in our collective journey of knowledge and skill enhancement. Let us seize this opportunity to delve into the realm of cloud computing, armed with curiosity and a thirst for learning. Together, let us embrace the challenges and opportunities that lie ahead, knowing that our efforts today will shape the landscape of tomorrow. I extend my warmest welcome to all participants and express my gratitude for your dedication to professional development.

#### Vote of Thanks by Dr. G. ArunKumar – Associate Professor – CSE – MITS

In the end of inauguration function Dr. G. ArunKumar proposed Vote of Thanks to MITS Management, Principal, Vice-Principal, and Resource persons Mr.D.Anand Swaroop Kumar, Senior Manager, Adams bridge Global, Chennai and all the people who directly and indirectly involved in organizing this event.

S. No	Date	Topics to be Discussed FN (9.30Am – 12.15pm)	Topics to be Discussed AN (1.30pm – 4.30pm)	No of Session
1	19-2-24 Monday	Introduction to Cloud Computing/ AWS Login Creation in AWS	Network and Monitoring Using Virtual Private Cloud (VPC)	2
2	20-2-24 Tuesday	DB Services and Analytics using Rational Database Services (RDS)	Devops on Cloud & Core services in AWS like S3, Lambda	2
3	21-2-24 Wednesday	Configuration Management and Automation	Security and User Management & Valedictory function	2

Felicitating the Resource person with memento



#### Day 1 : Session 1: Date : 19.02.2023 Day : Monday Topic Discussed : Introduction to Cloud Computing/ AWS Venue : Seminar hall – B Time : 10.00 - 12.15

In this session, Topic uncovers the core principles of cloud computing, understands its benefits, and explores real-world applications. The concept or seeking to deepen the understanding, this session promises to provide you with valuable insights and ignite your curiosity about the boundless possibilities of cloud technology. And uncover the countless services and solutions offered by AWS, from compute and storage to machine learning and analytics. Discover how AWS empowers businesses to innovate, scale, and transform their operations with unparalleled flexibility and efficiency. This session promises to provide you with valuable insights and practical knowledge to harness the full potential of AWS.

# Day 1: Session 2: Date : 19.02.2023 Day : Monday Topic Discussed : Network and Monitoring Using Virtual Private Cloud (VPC)

Venue : CB – Lab 11 Time : 1.30 - 04.30

AWS Network and Monitoring using Virtual Private Cloud (VPC) provides users with a secure and customizable network environment within the AWS cloud. With VPC, users can define their network topology, including IP addresses and subnets, and configure security measures like security groups and network ACLs. VPC enables private connectivity to other AWS services or on-premises infrastructure via Direct Connect or VPN connections. Monitoring tools such as Amazon CloudWatch and AWS Config allow users to monitor the performance, health, and security of VPC resources. This combination of network customization and monitoring capabilities empowers users to build and manage robust network infrastructures in the cloud, ensuring reliability and efficiency.

### Day 2: Session 1: Date : 20.02.2023 Day : Tuesday

## Topic Discussed : DB Services and Analytics using Rational Database Services (RDS)

Venue : CB – Lab 11 Time : 10.00 - 12.15

DB Services and Analytics using Amazon Relational Database Service (RDS) offer a comprehensive solution for managing and analyzing data within the AWS cloud. With RDS, users can easily deploy, operate, and scale relational databases such as MySQL, PostgreSQL, and Oracle, without the need for managing complex infrastructure. RDS supports a variety of database engines, providing flexibility to meet different application requirements. Additionally, RDS integrates seamlessly with other AWS services like Amazon Redshift for data warehousing and Amazon Athena for interactive query analysis. This enables users to build robust data pipelines and perform advanced analytics on their data, driving insights and informed decision-making.

#### Day 2: Session 2: Date : 20.02.2023 Day : Tuesday

Topic Discussed : Devops on Cloud & Core services in AWS like S3, Lambda

#### Venue : CB – Lab 11 Time : 1.30 - 04.30

DevOps on Cloud leverages core AWS services such as S3 and Lambda to streamline and automate the software development lifecycle. Amazon S3 offers scalable object storage, enabling DevOps teams to store and retrieve data efficiently. AWS Lambda allows for serverless computing, facilitating the execution of code in response to events without the need to provision or manage servers. Together, these services empower DevOps teams to build resilient, scalable, and cost-effective solutions. By integrating S3 for storage and Lambda for event-driven processing, DevOps practitioners can automate workflows, improve deployment speed, and enhance overall efficiency in cloud-based environments, driving agility and innovation in software development.

#### Day 3: Session 1: Date : 21.02.2023 Day : Wednesday

**Topic Discussed : Configuration Management and Automation** 

#### Venue : CB – Lab 11 Time : 10.00 - 12.15

Configuration Management and Automation in AWS streamline infrastructure provisioning, deployment, and management processes. Leveraging services like AWS CloudFormation and AWS Systems Manager, users can define infrastructure as code and automate resource provisioning, reducing manual errors and ensuring consistency across environments. AWS OpsWorks enables automated configuration management, allowing users to define configurations, deploy applications, and manage instances at scale. Additionally, AWS offers integration with popular DevOps tools like Ansible, Puppet, and Chef, further enhancing automation capabilities. By adopting configuration management and automation practices in AWS, organizations can improve operational efficiency, increase agility, and accelerate time-to-market for their applications and services, driving innovation in the cloud.

#### Day 3: Session 2: Date : 21.02.2023 Day : Wednesday **Topic Discussed : Security and User Management**

# Venue : CB – Lab 11 Time : 1.30 - 04.30

Security and User Management in AWS are paramount for safeguarding data and resources in the cloud. AWS Identity and Access Management (IAM) enables granular control over user permissions, allowing organizations to manage access to AWS services and resources securely. Additionally, AWS offers a range of security features, including encryption, multi-factor authentication (MFA), and network security controls, to protect data both in transit and at rest. With AWS Key Management Service (KMS), users can manage encryption keys and ensure data confidentiality. By implementing robust security measures and effective user management practices in AWS, organizations can mitigate security risks and maintain compliance while leveraging the scalability and flexibility of the cloud.

# Outcome of Hands on training Cloud computing with Amazon Web Services (AWS)

1.Enhanced Understanding: Participants gain a comprehensive understanding of cloud computing principles and AWS services, enabling them to leverage cloud technology effectively in their projects or organizations.

2. Practical Skills: Through hands-on exercises and labs, attendees acquire practical skills in deploying, managing, and optimizing AWS resources, empowering them to implement real-world solutions on the AWS platform.

3. Confidence in AWS: The training instils confidence in participants to navigate the AWS Management Console, utilize AWS services, and architect cloud solutions, equipping them to contribute effectively to AWS-based projects.

4.Problem-Solving Abilities: Attendees develop problem-solving abilities by encountering and resolving challenges encountered during the hands-on training exercises, preparing them to tackle complex scenarios in AWS environments.

5. Certification Readiness: The training serves as a solid foundation for participants aiming to pursue AWS certifications, providing them with the knowledge and skills needed to pass certification exams and validate their expertise in AWS cloud computing.

# **Newspaper Clips:**

# మిట్ కోకాశాలలో అమెజాన్ వెబ్ సీలీసిస్



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# క్లౌడ్ కంప్యూటింగ్లో అపార అవకాశాలు

**పరబలకోట** : ప్రపంచ వ్యాప్తంగా అనేక సాఫ్ట్**వేర్** కంపెనీలు క్లౌడ్ కంప్యూటింగ్ సేవలను విరివిగా వినియోగిస్తున్నందున ఇందులో అపార అవకా శాలు ఉన్నాయని చెన్నై ఆడమ్స్ ట్రీడ్డ్ గ్లోబల్ సీనియర్ మేనేజర్ డి. ఆనంద్ స్వరూప్ పేర్కా న్నారు. అంగళ్లులోని మిట్స్ ఇంజినీరింగ్ కళాశా లలో అమెజాన్ వెబ్ సర్వీససతో క్లౌడ్ కంప్యూటిం గొపై మూడు రోజుల పాటు హాంద్స్ ఆన్ టైనింగ్ను నిర్వహించారు. మంగళవారం ముఖ్య అతిథిగా విచ్చేసిన ఆయన మాట్లాడుతూ ప్రస్తుత ఆకర్మనీ యమైన కేరీర్ ఆష్టన్లలో క్లౌడ్ కంప్యూటింగ్ ప్రము ఖంగా నిలుస్తోందన్నారు. వ్యాపారాలు, ఆర్థిక వ్యవ స్థను మెరుగుపరచటంలో భవిష్యత్తు అవసరాలకు తగినట్లగా టెక్నాలజీని తీసుకు రావడంలో ఇది



మాట్లాదుతున్న అనంద్ స్వరూప్

కీలక పాత్ర వహిస్తోందన్నారు. అపరిమితమైన ఉద్యోగ అవకాశాలు కూడా ఉన్నాయన్నారు. క్లౌడ్ కంప్యూటింగ్లో తక్కువ స్థలంలో ఎక్కువ సమాదా రాన్ని సురక్షితంగా నిల్వచేయవచ్చన్నారు. సాంకే తిక సమస్యలు తలిత్తకుండా సమాచార వ్యవస్థను సమర్థవంతంగా నిర్వహించవచ్చన్నారు.

21/02/2024 | Annamaiah(Madanapalle) | Page : 9 Source : https://epaper.sakshi.com/

# క్రైడ్ కంప్ర్యూటింగ్ పై మూడు రోజుల శిక్రణ

ీ గల మదనపల్లె ఇస్పేట నురెర్లి సమీపం లో గల మదనపర్లి జర్జెట్నూ సింజ్ అంద్ సైన్స్ కళాశాల నందు కంప్యూటర్ 5 జంజనీరింగ్ విధాగము వారు అమెజాన్ సిస్ తో కొడి కంప్యూరింగిపై మూడు రోజుల ద్వ్ అన్ జినింగ్ ను విద్యార్థులకు గిర్వహించి కార్యక్రమానికి ముజ్జ అదిధిగా చెప్పిలేని అ తెప్పార్ మార్లో కార్యా దిర్ది 965 త్రమానికి ముఖ్య అశిథి ల్ సీనియర్ మేరేజర్ ప టల్ సీనియర్ మేకేజర్ మరియు మిట్సి కళాశాల విద్యార్థి ఓ అనంద్ స్వరూప్ కుమార్ పాల్గొన్నారు ున మాట్లదుతు అప్పన్నలో గ్రాద్ స్తోంది అని, ప్యాపార రంలో భవిష్యత్నలో సాంగతికతను తీష

గా సొంకితికశను తీసుకురావడంలో శ్ర సంగ్ కీలక పాత్ర పోషిస్తోంది అని అన్నారు. ఆగ్ నేరుకోవడం ద్వారా అన 27 64 ర్వారా అపరిమితమైన తాజాగా అమెజాన్ పెల్ 60.

కురబలకోట, పిబ్రవరి 20. సాఫ్లైవేర్ రంగంలో ఔడ్ కంపూటింగ్ కీలకమని రిసోర్బవర్స్ అనండ్ స్వరూప్కుమార్ ేపర్కొన్నారు. మండలంలోని మిట్స్ ఇంజనీ రింగ్ కళాశాలలో మంగళవారం సీఎస్ఈ విభాగం ఆధ్వర్యంలో అమెజాన్ పెబ్

నర్వీసెస్తో క్లౌడ్ కంప్యాటింగ్పై కిరోజుల

పాటు వర్క్షిషాప్ నిర్వహించారు. ఈ నంద ర్భంగా ఏర్పాటు చేసిన నమావేశంలో ఆయన

కార్పకవ ఆరుజేకుమార్ పాల్గొన్నారు

సాఫ్ట్ వేర్ రంగంలో క్లౌడ్ కంప్రూటింగ్ కీలకం

మాట్లాడుతూ ప్రధానంగా ఈ రంగానికి ఉజ్వల భవిష్యత్ ఉందని ఈ రంగంలో రాజిస్తే మెరుగైన ఉద్యోగావకాశాలను సాదించవ చృన్నారు. ఇందు కోసం విద్యార్థులు ప్రధానంగ పైపుణ్యాలను మెరుగువరచుకోవడంతో పాటుగా టెక్నాలజీలపై దృష్టి సారిందాలన్నారు ంలో వైస్ ప్రిన్నిపాల్ రామనాథమ్, విభాగాధిపతి కల్పన, కో ఆర్థినేటర్



and at anoth తమ ఐదీ కసుకొచ్చిందని అన్నారు. వ్యాపారాలు ను క్రౌద్**కు ఎక్కువగా తరలిస్తున్నందు**న,

సమావేశంలో మాట్రాడుతున్న

రిపోర్శవర్శన్ స్వరూప్ కుమార్

305 33 r. రార వ్యవస్థు

ఖలు మరియు సంస్థలకు అమెజాన్ పెట్ • చేసుకోవదం మరియు మాస్టరింగ్ చేయ

అని అన్నారు. ఈ శిక్షణ

గర్నారు కాదన్, వైస్ ప్రుస్తిపాల్ దాక్టర్ రామనాథన్, విభాగాధిపతి అర్ 1 కో- అర్ధినేటర్ దాక్టర్ అరుడ్ కుమార్ తదితరులు పాల్గిన్నా





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