



## Collaborative Learning

### Academic Year 2022-2023 Odd Semester

Degree, Semester & Branch: VII Semester B..Tech.IT

Course Code & Title: JCS1702 Cloud Computing

Name of the Faculty member (s): Mr.K.Arunprasad

#### Innovative Practice Description

Unit / Topic: Unit III / Cloud Deployment Model

Course Outcome: CO3

Topic Learning Outcome: TLO8

Activity Chosen: Mind map

Justification:

Mind Map

- A mind map is a visual representation of thoughts and ideas. It is a visual thinking activity that aids in learning through organizing the concepts/data. It can be used to express ideas faster. The topic cloud deployment model is of different types such as private, public, hybrid and community cloud. This activity helps the student to identify theoretical concepts in the mindmap and aid in easy recall for their exams.
- **Time Allotted for the Activity:** 20 minutes

#### Details of the Implementation:

Step 1: Introduction and Explanation (5 minutes)

- Mrs.K.Jeyageetha provided a brief overview of the Cloud Deployment Model and discussed the concepts in the classroom.
- The students raised doubts about the topic and it was clarified.

Step 2: Mind Map Instruction: (2 minutes)

- The concept of a mind map and its benefits in organizing information visually was defined.
- Instructed students that the mind map should include key concepts, relationships between them, and any relevant details discussed in class.
- Also examples and a sample mind map to illustrate the expected format is provided to the students.

Step 3: Mind Map Creation: (10 minutes)

- The students are instructed to create their mind maps within 10 minutes.

- Encouraged them to be creative and use colors, symbols, and keywords to represent the Cloud deployment model concepts as shown in figure 1 and 2.

Step 4: Collection of Mind Maps: (1 minute)

- The mind maps from each student are collected after the allotted time.
- Finally I have emphasized the importance of individual efforts and understanding the core concepts by creation of the mind map.

Step 5: Discussion: (2 minutes)

- I have summarized the key takeaways from the activity.
- I asked students how did Mind Map activity help them recall and organize information.
- Mr.J.Paranthaman, gave a feedback that the activity helped them to understand the deployment model more clearly.

Images / Screenshot of the practice:

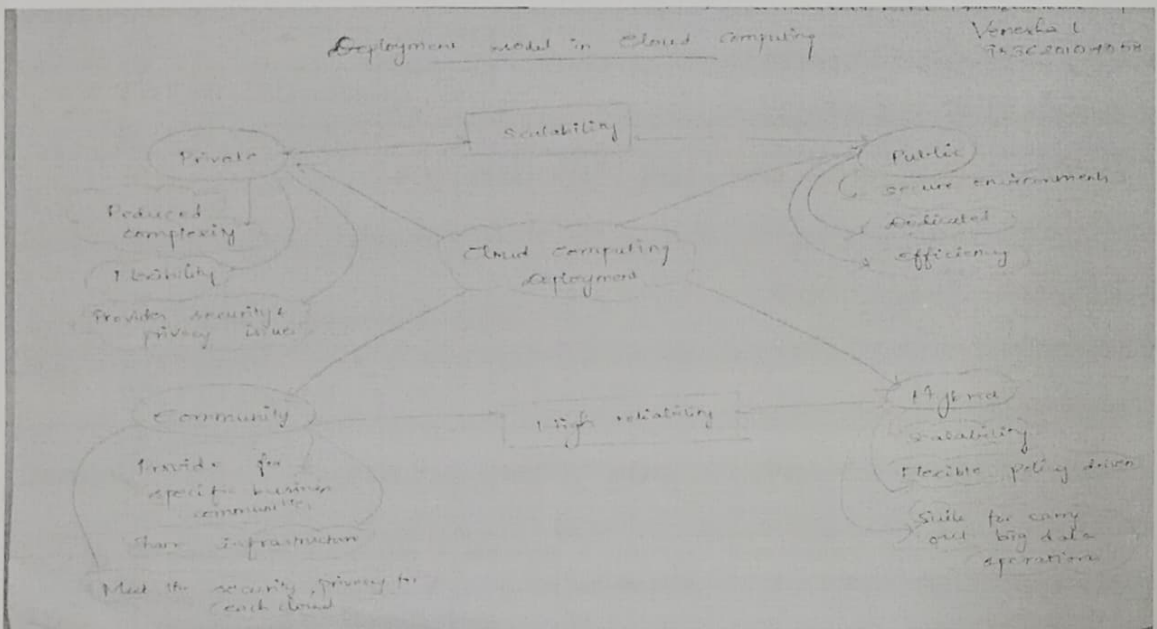


Fig:1. Mind Map Activity

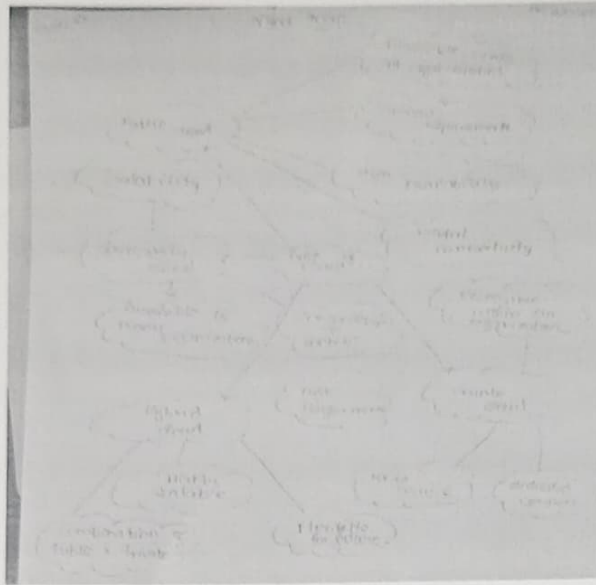


Fig:2. Mind Map Activity

CO – PO / PSO mapping:

| CO   | PO1 | PO2 | PO3 | PO4 | PO9 | PO10 | PSO2 |
|------|-----|-----|-----|-----|-----|------|------|
| CO 4 | 2   | 2   | 2   | 1   | 1   | 1    | 1    |

(1 – Low 2 – Moderate 3 – High)

PO / PSO mapped:

| Innovative practice           | PO1   | PO2   | PO3   | PO4   | PO9   | PO10  | PSO2  |
|-------------------------------|---|---|---|---|---|---|---|
|                               | 2   | 2   | 2   | 1   | 1   | 1   | 1   |
| Justification for correlation | Students will be able to analyze complex engineering cl | Students will be able to analyze complex engineering cl | Students will be able to analyze complex engineering cl | Students will be able to investigate deployment models, research their pros and cons and apply analytical methods to choose which model suits which scenarios | Students will be able to investigate deployment models, research their pros and cons and apply analytical methods to choose which model suits which scenarios | Students will be able to investigate deployment models, research their pros and cons and apply analytical methods to choose which model suits which scenarios | Students will be able to apply the IoT applications and and cyb |

• **Reflective Critique:**

• *Feedback of practice from students and other stakeholders:*

- Students stated that the activity assisted them in determining their level of understanding of the concept.
- The majority of students told that this experience was easier for them to recall the deployment of cloud concepts.

• *Benefit of the practice:* (E.g.: Outcome attainment would have increased due to innovative practice over conventional practice)

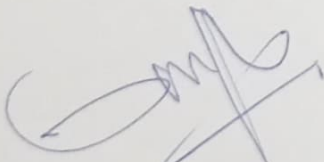
- This activity enables students to recall the most important information using key words, and then visually connect facts and ideas.
- It made key note making easier to students, as it reduces pages of notes into one single paper. Also mind map made slow learners to remember the information more quickly.
- This activity encouraged the students to share their knowledge with others.
- From this activity, the students can get more clarity in the particular topic.

• *Challenges faced in implementation:*

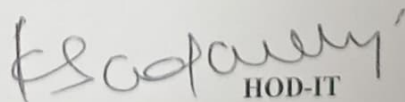
- Effectively motivated few students who didn't participate in the activity by addressing the benefits of mind map.
- Some of the students represent less key points in the mind map.
- Below average students took more time to create the mind map, so the activity took more time than planned.

**References:**

1. <https://www.lucidchart.com/pages/how-to-make-a-mind-map>



Signature of Faculty Member



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