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### TITLE:

To create a cluster of machines

#### AIM:

To create a cluster of machines and achieve a password less access

## **OBJECTIVE:**

To understand the importance of clusters in distributed computing

## **THEORY:**

#### **Cluster Computing:**

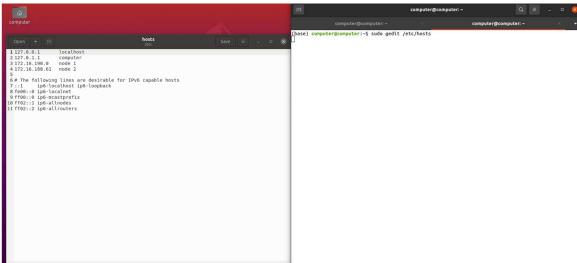
Cluster computing involves multiple interconnected computers (nodes) working together to solve computational problems, enhancing processing power. It's used for complex tasks and applications.

#### **Steps to Create Clusters:**

- 1. Define Purpose: Identify tasks and applications for the cluster.
- 2. Select Hardware: Choose compatible hardware for each node.
- 3. Install OS: Install an operating system on each node.
- 4. Set Up Network: Establish a reliable, high-speed network connection.
- 5. Install Middleware: Install cluster middleware for communication.
- 6. Configure Node Communication: Configure nodes to communicate effectively.
- 7. Set Up Shared Storage: Establish shared storage for all nodes.
- 8. Install Applications: Install and configure applications for parallel processing.
- 9. Testing: Conduct thorough testing of the cluster.
- 10. Monitoring and Management: Implement monitoring tools for performance tracking.
- 11. Documentation: Document cluster configuration and specifications.
- 12. Scale as Needed: Add more nodes if necessary, maintaining compatibility.

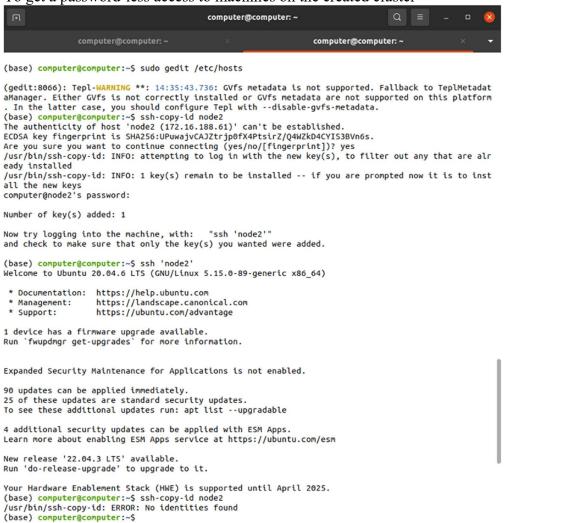
#### **INPUT:**

#### Creation of clusters



#### **OUTPUT:**

To get a password-less access to machines on the created cluster



# **CONCLUSION:**

The cluster of machines was accomplished

# **PLATFORM:**

Linux

# **LANGUAGE:**

C language.

# FAQs

- 1. What is a cluster of machines?
- 2. What is a grid of machines?3. Give applications of Cluster Computing