**day35\_107856406\_dsdipt\_sudipto\_11september2025**

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### ***Task 01: What is DynamoDB Accelerator (DAX) and how do you set it up?***

* **DAX** is a fully managed, in-memory caching layer for DynamoDB that provides microsecond read performance and reduces load on DynamoDB.
* **Setup Steps:**
  1. Ensure an AWS account with DynamoDB & DAX permissions, and have a table ready.
  2. Create a **VPC, subnet**, and **IAM role** with DynamoDB access.
  3. Open **DAX console** → Create Cluster. Configure:
     + Cluster name, node type (dax.r5.large), cluster size (1–3 nodes), IAM role.
  4. Configure **network settings:** select VPC, at least one subnet, attach security groups.
  5. Optionally enable encryption, TTL, and caching parameters.
  6. Review settings → Create.
  7. After cluster status is Available, copy the **DAX endpoint** and use it in your application code instead of the standard DynamoDB endpoint.