



**Abdullah  
DevOps**

# **TERRAFORM COURSE**

**2025**

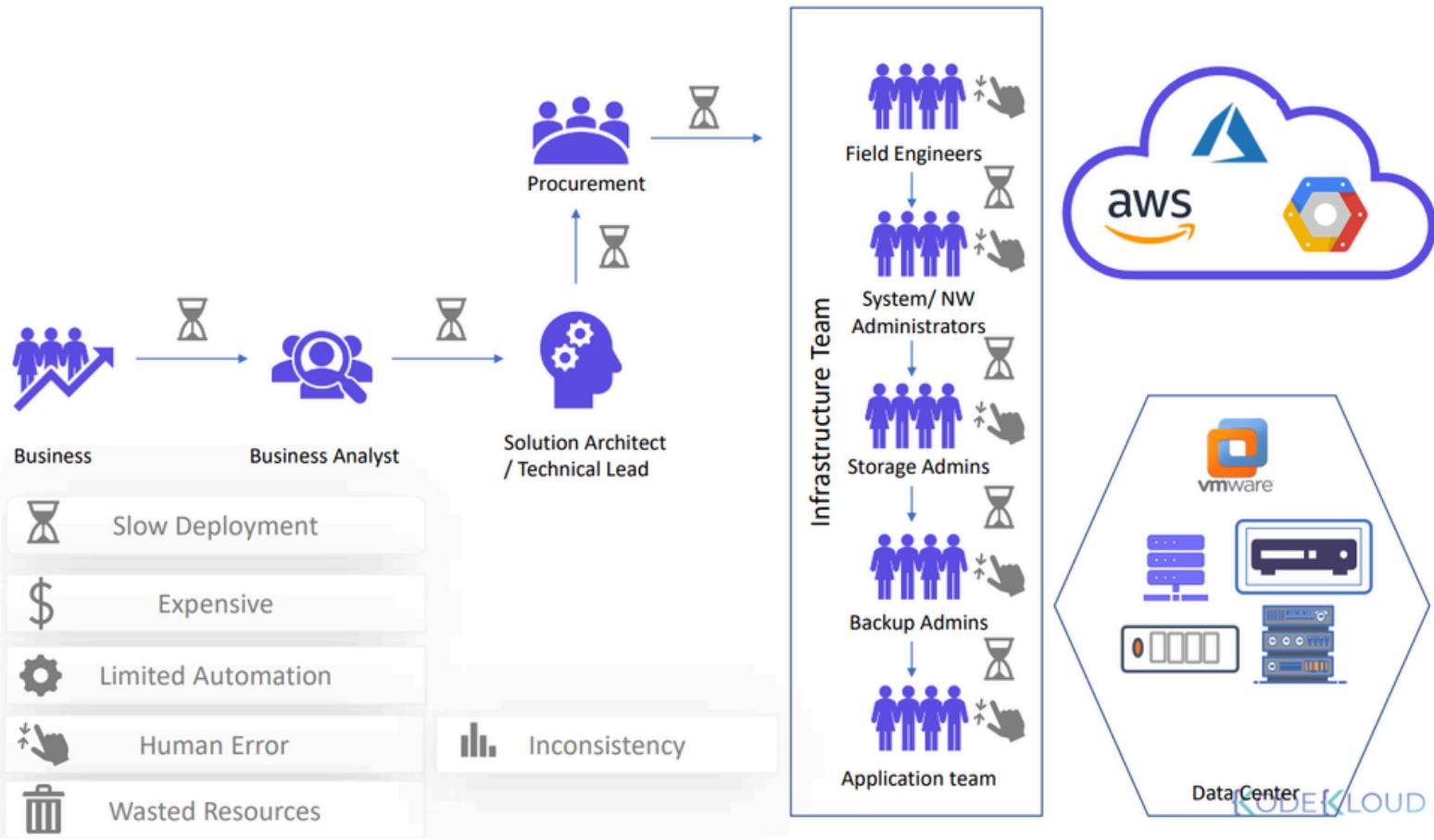
# Module# 1

## (Introduction)

### Course Objective



## Challenges with Traditional IT infrastructure



## Types of IAC Tools

Configuration Management	<p><b>Ansible</b></p> <ul style="list-style-type: none"> <li>Designed to Install and Manage Software</li> <li>Maintains Standard Structure</li> </ul> <p><b>puppet</b></p> <ul style="list-style-type: none"> <li>Version Control</li> <li>Idempotent</li> </ul> <p><b>SALTSTACK</b></p>	Provisioning Tools	<p><b>Terraform</b></p> <ul style="list-style-type: none"> <li>Deploy Immutable Infrastructure resources</li> <li>Servers, Databases, Network Components etc.</li> <li>Multiple Providers</li> </ul> <p><b>CloudFormation</b></p>
Server Templating	<p><b>Docker</b></p> <ul style="list-style-type: none"> <li>Pre Installed Software and Dependencies</li> </ul> <p><b>Packer</b></p> <ul style="list-style-type: none"> <li>Virtual Machine or Docker Images</li> </ul> <p><b>Vagrant</b></p> <ul style="list-style-type: none"> <li>Immutable Infrastructure</li> </ul>		