

		Beginner	Intermediete
1	Linux Fundamentals	Virtualisation Concepts	Software Installation
		Linux installation on Virtual Machine	RPM Installation
		Basic Commands ( Create, Remove, Copy , Move)	Repository settings
		Loging in Options (UserName Password)	Firewalls / Security (Selinux, IP Tables, Firewalls)
		User (Create, Delete, Update)	
		Group (Create, Delete, Update)	
		User assigning to Group	SSH (Create, and Connecting to remote server)
			Permission - User Permissions
			Permission - File Permissions
			Systemctl
			Service - Start, stop, delete
			Introduction to BASH
2	SDLC (Software Development Life Cycle)	Requirements Gathering	
		Analysis	
		Design	
		Development	
		Testing	
		Bug fix	
		Methodologies - Waterfall, Agile, Scrum	
3	Source Code Management - SCM		

		SCM Introduction	Branch creation, pull, commit, push, merge, rebase
		GitHub - Account creation, Repo creation, Code commit	Branching strategies - Git Flow
		Git Installation	
4	CI / CD (Continuous Integration / Continuous Delivery)		
		<b>Jenkins, Azure DevOps, GitHub Actions</b>	<b>Azure Boards, Azure Repo, Azure Artifacts, Azure Pipelines, Azure Test Plans</b>
		Source Control - Git Hub	Source Control - Git Hub
		CI / CD Tool - Jenkins	CI / CD Tool - Azure Pipelines
		Job Creation	Job Creation
		Groovy, DSL	Credentials
		Trigger the job, Scheduling the JOB	Trigger the job
		Build Pipeline	Build Pipeline
		Deployment Pipeline	Deployment Pipeline
		ARTIFACTORY	SonarCube
5	Cloud (AWS / Azure)		
		Account Creation, Billing alert	
		Networking - Vnet, subnet, security groups	
		VM Creation, accessing the VM	
		IAAS, PAAS, SAAS with examples	
		Terminology - Cloud Native, etc	
		Introduction - ARM Templates / Cloud Formation / Powershell	
6	Terraform		
		IAC - Introduction Terraform	Terraform Statefile
		Terraform with Azure	Backend Configuration
		Terraform with AWS	VM deployment using Terraform
		HCL Language introduction	Terraform Providers
7	Ansible		
		Config as Code - Ansible Introduction	Inventory
		Playbook	Roles

8	Containers & Orchestration (Docker & Kubernetes)		
		Containerisation Concepts	<b>Orchesration - Kubernetes</b>
		Various technologies that support Containerisation	Introduction to Kubernetes
		Introduction to Docker	Architecture and components
		Introduction to Microservices	Kubernetes Installation, KUBECTL
		Docker installation	Mainifes and YAML
		Docker vs Podman	Pod, Replicaset, Deployments, Services, Config maps
		Dockerfile, Entry Point, Building Images, Docker Hub	
9	GIT OPS		
			Introduction to GITOPS
			ARGOS CD, FLUX (Installation and Usage)
10	Image Bakery - Hashicorp Packer		
			Hashicorp Packer
			AWS - Creation of Custom AMIs
			AZURE - Creation of Custom Azure VM Images
			Docker - Creation of Custom Images
11	Monitoring and Logging		
12	Live Project		