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| **Sessions on Docker** | | |
| **Category** | **Topics** | **Session taken by** |
|  | **Section - 1** |  |
| Docker Basics | What is Docker? |  |
| Containerization vs Virtualization |
| Advantages of Containerization |
| Installing Docker |
| Understanding Docker Terminologies \* Docker Images \* Docker Containers \* Docker Host \* Docker Client |
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| Listing out important commands in Docker |  |
| Run command options in Docker. |  |
| Downloading the image and creating a container |  |
| Stopping the container and removing the container |  |
| Understanding detached mode and interactive mode |  |
| Installing Docker compose (Combine with installing docker) |  |
| Working with Registry \*Public Registry \*Private Registry |  |
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| Docker Networking | Understanding Docker Networking |  |
| Drawback to Docker0 Network |  |
| Creating our custom network |  |
| Need for creating custom network. |  |
| Creating container in custom network |  |
|  | **Section - 2** |  |  |
| Docker Files | Creating customized Docker Images |  |  |
| Understanding the Keywords of the Docker file |  |
| Working with Docker file |  |
| Version controlling on Docker file. |  |
| Linting on Dockerfile & need for linting |  |
| Cache Busting |  |
| Understanding the default process of the container |  |
| Changing the default process of the container |  |
| Understanding Docker Volume |  |
| Types of Docker Volume \*Simple Docker Volume \*Docker Volume Containers |  |
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| Docker Compose | Introduction to Docker Compose |  |
| Examples of Docker compose files. |  |
| Creating multi-container architecture using the link |  |
| Using an environment variable |  |
|  | **Section - 3** |  |  |
| Docker Orchestration | Load Balancing |  |  |
| Scaling of containers |  |
| Performing rolling Updates |  |
| Handling failover Scenarios |  |
| Docker Swarm | Swarm Intro and Creating a 3-Node Swarm Cluster |  |
| Swarm Mode a Built-In Orchestration |  |
| Creating Your First Service and Scale It Locally |  |
| Creating a 3-Node Swarm Cluster |  |
| Remove node from docker swarm. |  |
| Swarm Basic Features and How to Use Them in Your Workflow |  |
| Scaling Out with Overlay Networking |  |
| Create A Multi-Service Multi-Node Web App |  |
| Service Placement Preference |  |
| Node Availability |  |