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HARDIK TILWANI 1 month ago (edited)

SUMMARY OF SESSION : 1 🙌

- ~> "Docker" Basics & It's Use Case's.
- ~> Provisioning (Platform) Of O.S & 4 ways for it.
- ~> Core Concept of "Containerization" & "Docker".
- ~> DevOps Principle - How Faster & Agile for "Business Growth".
- ~> Docker Public Registry (Repository) & "Private Registry".
- ~> Docker "Host" & "Engine".
- ~> Commands Used :
docker (ps -a, images, run -it, attach, --name, start, stop, --rm, --help, ls -a -q \$()), Ctrl+p+q, which, rpm -q -f .
- ~> "Virtualization" vs "Containerization".
- ~> "Downstream Project".
- ~> PreConfigured Yum Repository in our new O.S (Container) & installing any software on it.
- ~> "Platform As a Service".
- ~> Whatever we do Inside Docker is "Isolated".
- ~> Old Commands vs Management (New) Commands in Docker.
- ~> Life of O.S == Life of Program (According to our Requirements)
- ~> How To Create our own Image :
1- Commit(Copy/Clone to New/Our Image) & 2- Docker File.
- ~> And Creating Multiple Containers by our Own New Image.

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SUMMARY OF SESSION : 2 🙌

~> Configuring "Apache Web Server" inside "Docker".

~> Installing + Deploying Our own Index Page & then how to Start Services Permanently.

~> Docker "Inspect" & "JSON (Parser) Format".

~> "Process Id" == "httpd . pid"

~> "Cloning" Image by "Commit".

~> Multiple Use-Cases of Having "Image", like "Load Balance", "Collaboration", etc.

~> "Virtualization" vs "Containerization" (Multiple Environment).

~> How to Share Our "Image" :

1) Import/Export & 2) Push(Upload)/Pull from Registry.

~> Concept of "Shipping" & "Migration".

~> Concept of "Layering".

~> 3 Type's of Registry :

1) Local , 2) Public & 3) Private.

~> Commands Used -

Docker (container, image, inspect, --format, {Key-Variable}, kill all, commit, push, pull, save -o, load, tag, --network bridge/host), Vim, curl, netstat -tnlp, systemctl start/stop.

~> Created our Own Registry on "hub.docker. com"

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SUMMARY OF SESSION : 3 🙌

~> "Networking" In/With Docker.

~> "Docker Files/Logs".

~> IP, Netmask, Network Name, Gateway, Switch, Router, Bridge, Sub-Net.

~> Creating our Own "LAN" (Lab).

~> "DHCP" (DNS Server/Client, IPAM).

~> Network Driver (Default-Bridge Driver).

~> Creating our own Personal Network (Our own LAN) with Bridge Driver (As Default And Will Provide All Features) in Docker And Use Cases of it With it's Importance.

~> Use & Importance of "Isolation" & "Multi-Tenancy" with Containers.

~> "Linking" Concept & Importance of it with it's Availability.

~> Types of Different Network Driver's and there Uses.

~> How we Can Connect/Disconnect a Container from One Network to Another.

~> As an Example of Real Use Case in Industry - Testing Environment (Network) to Production Environment (Network).

~> "Load Balancing" with DNS Server.

~> Example by Creating our own Web Server and Deployed our own Web Page (In PHP) by Enabling Services with our Containers, as a server and client to check.

~> And Cloned(Commit) That Complete Configured Container to our New Image & used it to Create Multiple Containers with Same Data (Same Web Page).

~> With Real Scenario Example of Google, Configured our own Network and Used "Load Balancing" through creating Multiple Containers as Server and Client with DNS.

~> "Alias" Concept by Giving a Unique Name to Our Network (Containers), for Easy Connectivity and Load Balancing.

~> Concept of "LookUp / Resolve".

~> Command's Used -

Docker (logs, -f, run, exec, --name, network, inspect, create, --driver, -dit, route -n, --link, commit, --network alias),
PHP(Language), Curl (IP), nslookup, host.

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SUMMARY OF SESSION : 4 🙌

~> "Architecture of Docker".

~> Journey of "Docker Technology" - From Bare Metal to Virtualization to "Containerization".

~> "Hypervisor" in Virtualization.

~> Importance of "Container Engine" & Containerization Technology.

~> Concept of Boot Sequence, Kernel, Drivers, Resources, etc.

~> "systemd" Parent (First) Process (pid-1) to start all other Processes.

~> Types of "Network Driver's" -

1) Bridge, 2) Null & 3) Host with Multiple Examples.

~> Concept on Switch, Router, DNS, ISP, LAN, WAN, Packets, etc with Network Driver Examples.

~> Connectivity Rule for Public Network & Private Network.

~> "NAT", "SNAT", "DNAT" & "PAT" Concept with its Importance & Use-Cases with Examples.

~> Concept of "Firewalld" & "IpTables".

~> Command's Used -

Docker (uname -r, container, run, -it, --network, -p (port in Router Enable):(port to send Traffic), Bridge, Host), ping (IP), free -m, rpm -q kernel, ps -aux, ps tree.

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HARDIK TILWANI 3 weeks ago

SUMMARY OF SESSION : 5 🗨️

~> "IP FORWARDING".

~> "NAT / PAT" With Successful Practical, "Expose / Exposing".

~> Concept's Such As - "CHAIN"(Forward Chain), "IP TABLES".

~> "Alias" & "Permanent Alias".

~> "STORAGE" & It's Type's -

1) Ephemeral & 2) Persistent.

~> "VOLUME" - How to Create New Volume? (Volume == Storage).

~> "Centralized Storage".

~> Creating Our "Local YUM".

~> Command's Used -

uname -r, sysctl -a | grep ip_forward, ip tables (-nVL, -F, -p FORWARD ACCEPT), netstat -tnlp, vim, alias, rm -f *.repo,
docker (info, inspect, volume(ls, create, inspect,), -v (volume name / path)).

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HARDIK TILWANI 1 week ago

SUMMARY OF SESSION : 6 🙌

- ~> Small Project For WebApp /Website Using "WordPress Image".
- ~> And For Dynamic WebApp We Have To Use Database / Store The Data using "mysql".
- ~> "Multi-Tier Architecture".
- ~> Adding "Environment Variable" In Container.
- ~> "Entry Point".
- ~> "Linking".
- ~> Using Variables In WordPress & mysql Containers.
- ~> "Auto Scaling", "Load Balancer", "Rectify".
- ~> Done Multi-Tier Setup Manually & Can Be Done By Automation.
- ~> "Docker Compose" - "Infrastructure As Code".
- ~> In "docker-compose.yml" File.
- ~> "Key-Value Pair", "list", "Indent" (For Block Of Statement), "Internal Keywords".
- ~> "Complete Infrastructure" Created Can Start / Stop / Launch / Remove Perfectly.
- ~> Command's Used -
- # docker (pull, run -e, volume, --link, compose, start, stop, up, rm, ps).

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