

Start Course | Intellipaat

Docker-Assignment-1.pdf

Start Course | Intellipaat

Instances | EC2 Management Console

Subnets | VPC Management Console

Docker Hub

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:

Keyword ideas - 53...family movieFree Online Comma...All About German S...BollyFix | Official Si...Ted WoodworkingDownload 16,000...The Secret (2006) ~...Movies Fix | Movie...Accenture interview...Dr. Joe Dispenza ~...Other bookmarks

aws

Services

Search

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EC2

New EC2 Experience

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Security Groups

Feedback

Language

Instances (1) Info

Find instance by attribute or tag (case-sensitive)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elasti
<input type="checkbox"/>	DockerAssign	i-002276c5f4b74e7e6	Pending	t2.micro	-	No alarms	us-east-1b	ec2-3-82-1-92.compute...	3.82.1.92	-

Select an instance

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Cookie preferences

25°C Haze

21:17

10-03-2023

3.82.1.92 (ubuntu)

TerminalSessionsViewX serverToolsGamesSettingsMacrosHelp

SessionServersToolsGamesSessionsViewSplitMultiExecTunnelingPackagesSettingsHelp

Quick connect...

4. 3.82.1.92 (ubuntu)

ubuntu@ip-172-31-1-225:~\$ sudo apt install docker.io -y

home/ubuntu/

Name

...
.cache
.ssh
.bash_logout
.bashrc
.profile
.xauthority

Remote monitoring

Follow terminal folder

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Do cKer Install

Type here to search

25°C Haze 21:30 10-03-2023

3.82.1.92 (ubuntu)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

4. 3.82.1.92 (ubuntu)

home/ubuntu/

Name

- ..
- .cache
- .ssh
- .bash_logout
- .bashrc
- .profile
- .xauthority

Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 runc amd64 1.1.4-0ubuntu1~20.04.1 [3817 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 containerd amd64 1.6.12-0ubuntu1~20.04.1 [31.4 MB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 dns-root-data all 2019052802 [5300 B]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libidn11 amd64 1.33-2.2ubuntu2 [46.2 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 dnsmasq-base amd64 2.80-1.1ubuntu1.6 [315 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd64 docker.io amd64 20.10.21-0ubuntu1~20.04.1 [30.3 MB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 ubuntu-fan all 0.12.13ubuntu0.1 [34.4 kB]
Fetched 66.1 MB in 2s (34.1 MB/s)
Preconfiguring packages ...
Selecting previously unselected package pigz.
(Reading database ... 61862 files and directories currently installed.)
Preparing to unpack .../0-pigz_2.4-1_amd64.deb ...
Unpacking pigz (2.4-1) ...
Selecting previously unselected package bridge-utils.
Preparing to unpack .../1-bridge-utils_1.6-2ubuntu1_amd64.deb ...
Unpacking bridge-utils (1.6-2ubuntu1) ...
Selecting previously unselected package runc.
Preparing to unpack .../2-runc_1.1.4-0ubuntu1~20.04.1_amd64.deb ...
Unpacking runc (1.1.4-0ubuntu1~20.04.1) ...
Selecting previously unselected package containerd.
Preparing to unpack .../3-containerd_1.6.12-0ubuntu1~20.04.1_amd64.deb ...
Unpacking containerd (1.6.12-0ubuntu1~20.04.1) ...
Selecting previously unselected package dns-root-data.
Preparing to unpack .../4-dns-root-data_2019052802_all.deb ...
Unpacking dns-root-data (2019052802) ...
Selecting previously unselected package libidn11:amd64.
Preparing to unpack .../5-libidn11_1.33-2.2ubuntu2_amd64.deb ...
Unpacking libidn11:amd64 (1.33-2.2ubuntu2) ...
Selecting previously unselected package dnsmasq-base.
Preparing to unpack .../6-dnsmasq-base_2.80-1.1ubuntu1.6_amd64.deb ...
Unpacking dnsmasq-base (2.80-1.1ubuntu1.6) ...
Selecting previously unselected package docker.io.
Preparing to unpack .../7-docker.io_20.10.21-0ubuntu1~20.04.1_amd64.deb ...
Unpacking docker.io (20.10.21-0ubuntu1~20.04.1) ...
Selecting previously unselected package ubuntu-fan.
Preparing to unpack .../8-ubuntu-fan_0.12.13ubuntu0.1_all.deb ...
Unpacking ubuntu-fan (0.12.13ubuntu0.1) ...
Setting up runc (1.1.4-0ubuntu1~20.04.1) ...
Setting up dns-root-data (2019052802) ...
Setting up libidn11:amd64 (1.33-2.2ubuntu2) ...
Setting up bridge-utils (1.6-2ubuntu1) ...
Setting up pigz (2.4-1) ...
Setting up containerd (1.6.12-0ubuntu1~20.04.1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /lib/systemd/system/containerd.service.
Setting up docker.io (20.10.21-0ubuntu1~20.04.1) ...
Adding group `docker' (GID 120) ...
Done.
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /lib/systemd/system/docker.socket.
Setting up dnsmasq-base (2.80-1.1ubuntu1.6) ...
Setting up ubuntu-fan (0.12.13ubuntu0.1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/ubuntu-fan.service → /lib/systemd/system/ubuntu-fan.service.
Processing triggers for systemd (245.4-4ubuntu3.19) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for dbus (1.12.16-2ubuntu2.3) ...
Processing triggers for libc-bin (2.31-0ubuntu9.9) ...
ubuntu@ip-172-31-1-225:~\$ docker --version
Docker version 20.10.21, build 20.10.21-0ubuntu1~20.04.1
ubuntu@ip-172-31-1-225:~\$

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25°C Haze 21:31 10-03-2023

3.82.1.92 (ubuntu)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

4. 3.82.1.92 (ubuntu)

ubuntu@ip-172-31-1-225:~\$ sudo docker pull ubuntu

Using default tag: latest
latest: Pulling from library/ubuntu
76769433fd8a: Pull complete
Digest: sha256:2adf22367284330af9f832ffefb717c78239f6251d9d0f58de50b86229ed1427
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest
ubuntu@ip-172-31-1-225:~\$ sudo docker image

Usage: docker image COMMAND

Manage images

Commands:

- build Build an image from a Dockerfile
- history Show the history of an image
- import Import the contents from a tarball to create a filesystem image
- inspect Display detailed information on one or more images
- load Load an image from a tar archive or STDIN
- ls List images
- prune Remove unused images
- pull Pull an image or a repository from a registry
- push Push an image or a repository to a registry
- rm Remove one or more images
- save Save one or more images to a tar archive (streamed to STDOUT by default)
- tag Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE

Run 'docker image COMMAND --help' for more information on a command.

ubuntu@ip-172-31-1-225:~\$ sudo docker images

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
ubuntu	latest	74f2314a03de	9 days ago	77.8MB

ubuntu@ip-172-31-1-225:~\$

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3.82.1.92 (ubuntu)

TerminalSessionsViewX serverToolsGamesSettingsMacrosHelp

SessionServersToolsGamesSessionsViewSplitMultiExecTunnelingPackagesSettingsHelp

Quick connect...

4. 3.82.1.92 (ubuntu)

home/ubuntu/

Name

..

.cache

.ssh

.bash_logout

.bashrc

.profile

.Xauthority

ubuntu@ip-172-31-1-225:~\$ sudo docker run -itd -p 80:80 ubuntu 330002d4fec311f1f45ef720612cdcafa238f6146e36f10c89375a628dbd0805

ubuntu@ip-172-31-1-225:~\$ sudo docker ps

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
330002d4fec3	ubuntu	"/bin/bash"	18 seconds ago	Up 16 seconds	0.0.0.0:80→80/tcp, :::80→80/tcp	romantic_hopper

ubuntu@ip-172-31-1-225:~\$

< >

☒ Remote monitoring

☐ Follow terminal folder

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21:44

10-03-2023

3.82.1.92 (ubuntu)

TerminalSessionsViewX serverToolsGamesSettingsMacrosHelp

SessionServersToolsGamesSessionsViewSplitMultiExecTunnelingPackagesSettingsHelp

Quick connect...

4. 3.82.1.92 (ubuntu)

home/ubuntu/

Name

..

.cache

.ssh

.bash_logout

.bashrc

.profile

.Xauthority

```
ubuntu@ip-172-31-1-225:~$ sudo docker run -itd -p 80:80 ubuntu
330002d4fec311f1f45ef720612cdcafa238f6146e36f10c89375a628dbd0805
ubuntu@ip-172-31-1-225:~$ sudo docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAMES
330002d4fec3   ubuntu    "/bin/bash"              18 seconds ago Up 16 seconds  0.0.0.0:80→80/tcp, :::80→80/tcp    romantic_hopper
ubuntu@ip-172-31-1-225:~$ sudo docker exec -it 330002d4fec3 bash
root@330002d4fec3:/#
```

Remote monitoring

Follow terminal folder

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21:48

10-03-2023

3.82.1.92 (ubuntu)

TerminalSessionsViewX serverToolsGamesSettingsMacrosHelp

SessionServersToolsGamesSessionsViewSplitMultiExecTunnelingPackagesSettingsHelp

Quick connect...

4. 3.82.1.92 (ubuntu)

home/ubuntu/

Name

...

.cache

.ssh

.bash_logout

.bashrc

.profile

.xauthority

```
ubuntu@ip-172-31-1-225:~$ sudo docker run -itd -p 80:80 ubuntu
330002d4fec311f1f45ef720612cdcafa238f6146e36f10c89375a628dbd0805
ubuntu@ip-172-31-1-225:~$ sudo docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAMES
330002d4fec3   ubuntu   "/bin/bash"              18 seconds ago Up 16 seconds  0.0.0.0:80→80/tcp, :::80→80/tcp    romantic_hopper
ubuntu@ip-172-31-1-225:~$ sudo docker exec -it 330002d4fec3 bash
root@330002d4fec3:/# apt update
Get:1 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:2 http://archive.ubuntu.com/ubuntu jammy InRelease [270 kB]
Get:3 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [889 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [823 kB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [5557 B]
Get:6 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [862 kB]
Get:7 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:8 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [107 kB]
Get:9 http://archive.ubuntu.com/ubuntu jammy/main amd64 Packages [1792 kB]
Get:10 http://archive.ubuntu.com/ubuntu jammy/restricted amd64 Packages [164 kB]
Get:11 http://archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [266 kB]
Get:12 http://archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [17.5 MB]
Get:13 http://archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [880 kB]
Get:14 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1129 kB]
Get:15 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1193 kB]
Get:16 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [10.9 kB]
Get:17 http://archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [49.0 kB]
Get:18 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [22.4 kB]
Fetched 26.2 MB in 3s (8353 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
2 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@330002d4fec3:/# apt install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils bzip2 ca-certificates file libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap libbrotli1 libcurl4 libexpat1 libgdbm-compat4 libgdbm6 libicu70 libjansson4
  libldap-2.5-0 libldap-common liblua5.3-0 libmagic-mgc libmagic1 libnghttp2-14 libperl5.34 libpsl5 librtmp1 libsas2-2 libsas2-modules libsas2-modules-db libsqlite3-0 libssh-4 libxml2 mailcap
  media-types mime-support netbase openssl perl perl-modules-5.34 publicsuffix ssl-cert xz-utils
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser ufw bzip2-doc gdbm-l10n libsas2-modules-gssapi-mit | libsas2-modules-gssapi-heimdal libsas2-modules-ldap libsas2-modules-otp
  libsas2-modules-sql perl-doc libterm-readline-gnu-perl | libterm-readline-perl-perl make libtap-harness-archive-perl
The following NEW packages will be installed:
```

< >

☒ Remote monitoring

☐ Follow terminal folder

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Windows taskbar with search bar and icons for Edge, File Explorer, Mail, etc.

System tray showing 24°C Haze, network, volume, and date 10-03-2023.

3.82.1.92 (ubuntu)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

home/ubuntu/

Name

- ..
- .cache
- .ssh
- .bash_logout
- .bashrc
- .profile
- .xauthority

Updating certificates in /etc/ssl/certs ...
124 added, 0 removed; done.
Setting up ssl-cert (1.1.2) ...
debconf: unable to initialize frontend: Dialog
debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 78.)
debconf: falling back to frontend: Readline
Setting up libgdbm-compat4:amd64 (1.23-1) ...
Setting up libcurl4:amd64 (7.81.0-1ubuntu1.8) ...
Setting up libxml2:amd64 (2.9.13+dfsg-1ubuntu0.2) ...
Setting up apache2-utils (2.4.52-1ubuntu4.4) ...
Setting up libperl5.34:amd64 (5.34.0-3ubuntu1.1) ...
Setting up libaprutil1-ldap:amd64 (1.6.1-Subuntu4.22.04.1) ...
Setting up perl (5.34.0-3ubuntu1.1) ...
Setting up mailcap (3.70+nmu1ubuntu1) ...
Setting up mime-support (3.66) ...
Setting up apache2-bin (2.4.52-1ubuntu4.4) ...
Setting up apache2 (2.4.52-1ubuntu4.4) ...
Enabling module mpm_event.
Enabling module authz_core.
Enabling module authz_host.
Enabling module authn_core.
Enabling module auth_basic.
Enabling module access_compat.
Enabling module authn_file.
Enabling module authz_user.
Enabling module alias.
Enabling module dir.
Enabling module autoindex.
Enabling module env.
Enabling module mime.
Enabling module negotiation.
Enabling module setenvif.
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
invoke-rc.d: could not determine current runlevel
invoke-rc.d: policy-rc.d denied execution of start.
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
Processing triggers for ca-certificates (20211016ubuntu0.22.04.1) ...
Updating certificates in /etc/ssl/certs ...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d ...
done.
root@330002d4fec3:/# service apache2 status
* apache2 is not running
root@330002d4fec3:/# service apache2 start
* Starting Apache httpd web server apache2
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.2. Set the 'ServerName' directive globally to suppress this message
*
root@330002d4fec3:/# service apache2 status
* apache2 is running
root@330002d4fec3:/#

Remote monitoring
☐ Follow terminal folder

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24°C Haze 21:52 10-03-2023



Apache2 Default Page

Ubuntu

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in `/usr/share/doc/apache2/README.Debian.gz`**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/  
|-- apache2.conf  
|   |-- ports.conf  
|-- mods-enabled  
|   |-- *.Load  
|   |-- *.conf  
|-- conf-enabled  
|   |-- *.conf  
|-- sites-enabled  
|   |-- *.conf
```

- `apache2.conf` is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.
- `ports.conf` is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.
- Configuration files in the `mods-enabled/`, `conf-enabled/` and `sites-enabled/` directories contain particular configuration snippets which manage modules, global configuration fragments, or virtual host configurations, respectively.
- They are activated by symlinking available configuration files from their respective `*-available/` counterparts. These should be managed by using our helpers `a2enmod`, `a2dismod`, `a2ensite`, `a2dissite`, and `a2enconf`, `a2disconf`. See their respective man pages for detailed information.

Running