

ROS DEPLOYMENT AND AWS EC2 & AWS S3 PROJECT

By

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**internship
studio**

AMAZON WEB SERVICES (AWS) INTERNSHIP

DURATION - 1 MONTH

MARCH - 2025

ROS DEPLOYMENT PROJECT

```
ubuntu@ip-172-31-29-192:~$ sudo apt install ros-noetic-desktop-full
Reading package lists... Done
Building dependency tree
Reading state information... Done
ros-noetic-desktop-full is already the newest version (1.5.0-1focal.20211124.035539).
0 upgraded, 0 newly installed, 0 to remove and 26 not upgraded.
ubuntu@ip-172-31-29-192:~$ 
ubuntu@ip-172-31-29-192:~$ sudo apt update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:5 http://packages.ros.org/ros/ubuntu focal InRelease
Reading package lists... Done
Building dependency tree
Reading state information... Done
26 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-29-192:~$ 
ubuntu@ip-172-31-29-192:~$ rosversion -d
<unknown>
ubuntu@ip-172-31-29-192:~$ sudo apt install ros-noetic-desktop-full
Reading package lists... Done
Building dependency tree
Reading state information... Done
ros-noetic-desktop-full is already the newest version (1.5.0-1focal.20211124.035539).
0 upgraded, 0 newly installed, 0 to remove and 26 not upgraded.
ubuntu@ip-172-31-29-192:~$ source /opt/ros/noetic/setup.bash
ubuntu@ip-172-31-29-192:~$ 
ubuntu@ip-172-31-29-192:~$ rosversion -d
noetic
ubuntu@ip-172-31-29-192:~$ roscore
... logging to /home/ubuntu/.ros/log/aacle152-7808-11ec-bb16-f92c0b1bfd3d/roslaunch-ip-172-31-29-192-36392.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.
oscore
```

```
I
ubuntu@ip-172-31-29-192:~$ sudo apt install ros-noetic-desktop-full
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Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.
oscore
started roslaunch server http://ip-172-31-29-192:36771/
ros_comm version 1.15.13

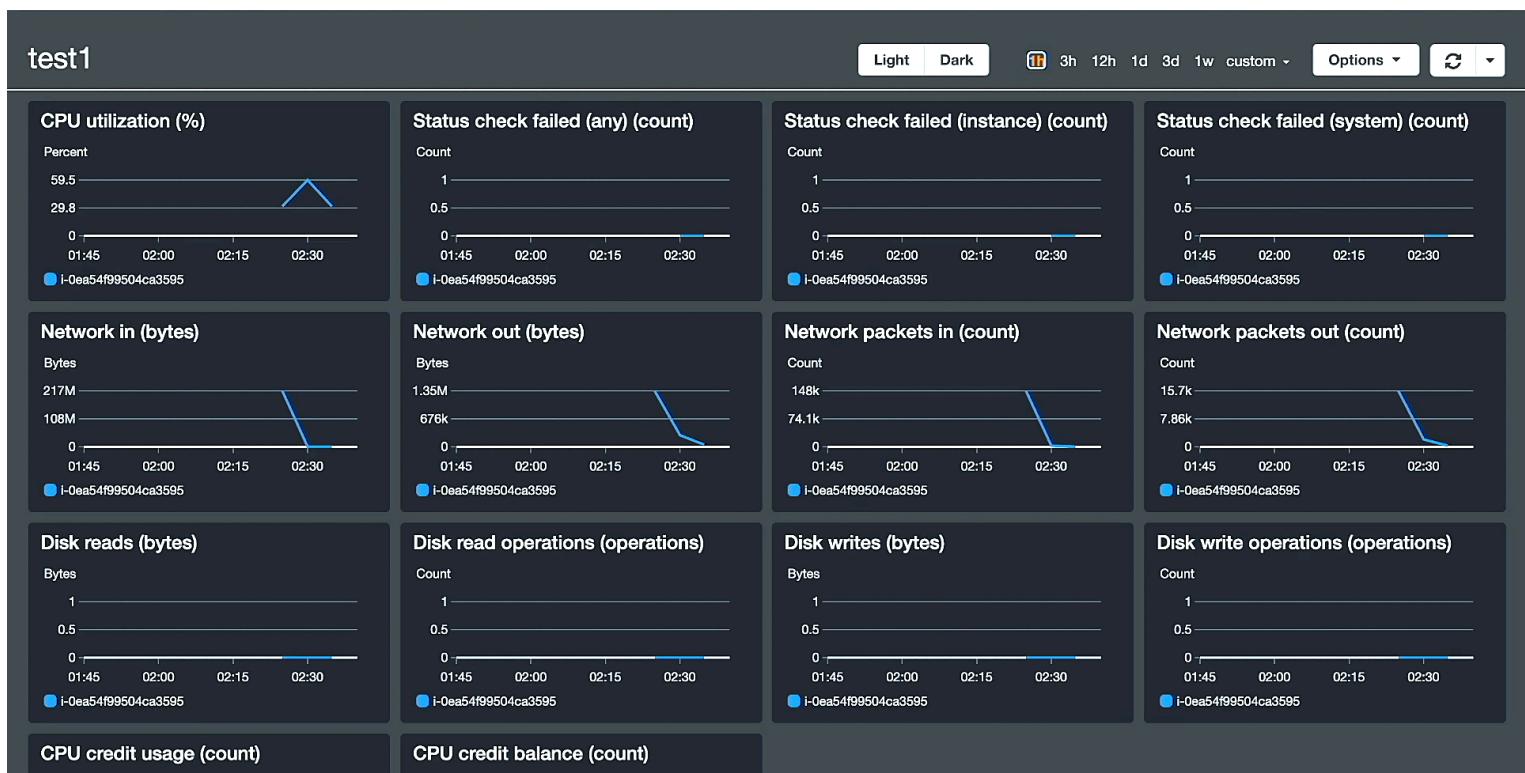
SUMMARY
=====

PARAMETERS
  * /rosdistro: noetic
  * /rosversion: 1.15.13

NODES

auto-starting new master
process[master]: started with pid [36400]
ROS_MASTER_URI=http://ip-172-31-29-192:11311/
oscore http://ip-172-31-29-192:11311/
setting /run_id to aacle152-7808-11ec-bb16-f92c0b1bfd3d
process[rosout-1]: started with pid [36410]
started core service [/rosout]
```

ROS DEPLOYMENT PROJECT



AWS EC2 & AWS S3 PROJECT

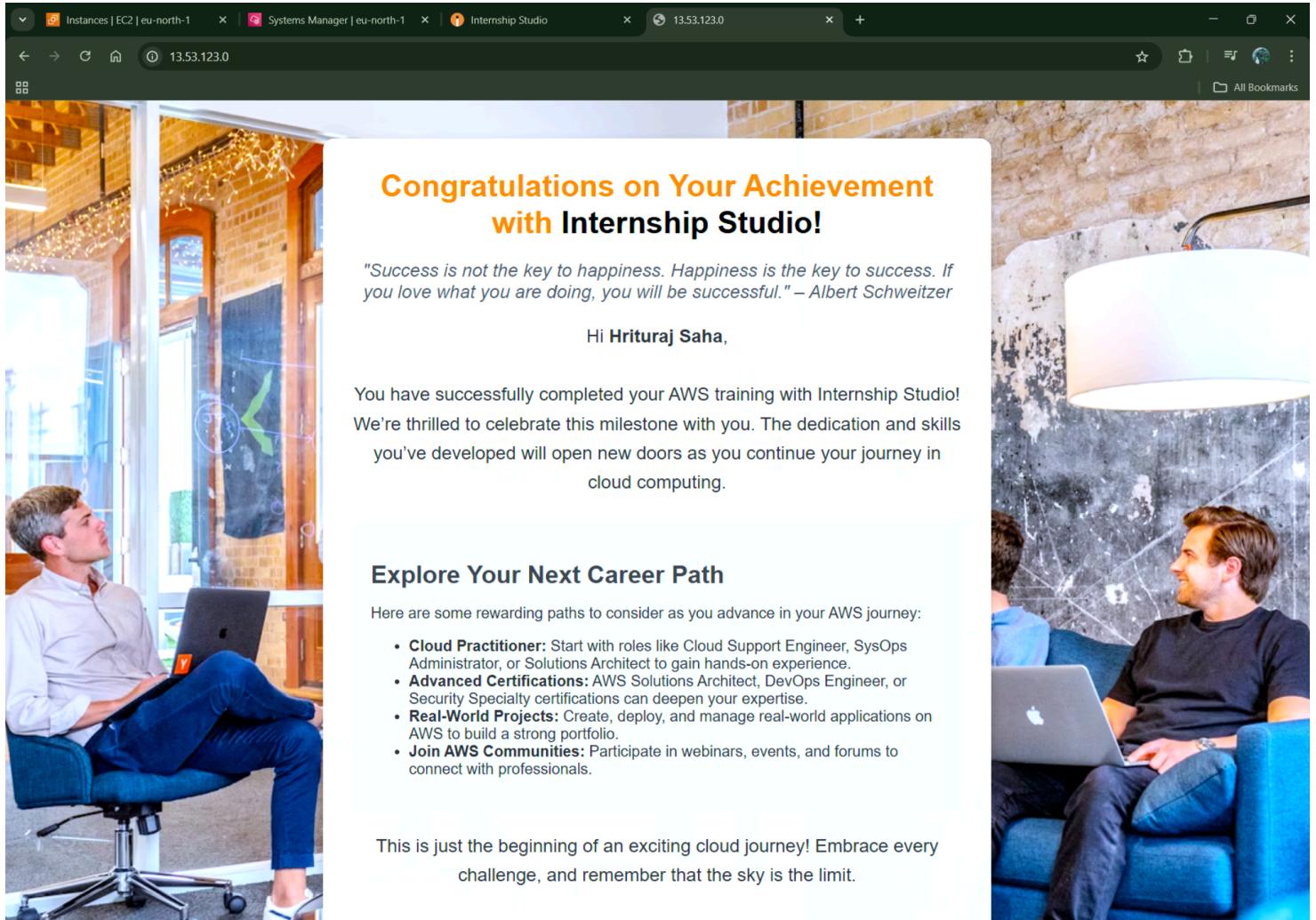
```
root@ip-10-0-0-8:/myaws# ls
root@ip-10-0-0-8:/myaws# sudo apt update
Hit:1 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:5 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [151 kB]
Get:6 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1051 kB]
Get:7 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [367 kB]
Get:8 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 kB]
Get:9 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 kB]
Get:10 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [7064 kB]
Get:11 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [15.8 kB]
Get:12 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 kB]
Get:13 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 kB]
Get:14 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [8956 kB]
Get:15 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.2 kB]
Get:16 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 kB]
Get:17 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 kB]
Fetched 2033 kB in 1s (2500 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
103 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@ip-10-0-0-8:/myaws# apt install nodejs
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
nodejs is already the newest version (18.19.1+dfsg-6ubuntu5).
0 upgraded, 0 newly installed, 0 to remove and 103 not upgraded.
root@ip-10-0-0-8:/myaws# node -v
v18.19.1
root@ip-10-0-0-8:/myaws# apt install npm
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
npm is already the newest version (9.2.0~ds1-2).
0 upgraded, 0 newly installed, 0 to remove and 103 not upgraded.
root@ip-10-0-0-8:/myaws# npm -v
9.2.0
root@ip-10-0-0-8:/myaws# ls
root@ip-10-0-0-8:/myaws#
```

```
Get:9 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 kB]
Get:10 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [7064 kB]
Get:11 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [15.8 kB]
Get:12 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 kB]
Get:13 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 kB]
Get:14 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [8956 kB]
Get:15 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.2 kB]
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Reading package lists... Done
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Reading state information... Done
npm is already the newest version (9.2.0~ds1-2).
0 upgraded, 0 newly installed, 0 to remove and 103 not upgraded.
root@ip-10-0-0-8:/myaws# npm -v
9.2.0
root@ip-10-0-0-8:/myaws# ls
root@ip-10-0-0-8:/myaws# vi completion.html
root@ip-10-0-0-8:/myaws# vi app.js
root@ip-10-0-0-8:/myaws# npm install express

added 66 packages in 3s

14 packages are looking for funding
  run `npm fund` for details
root@ip-10-0-0-8:/myaws# sudo node app.js
Server is running on port 80
```

AWS EC2 & AWS S3 PROJECT



Congratulations on Your Achievement with Internship Studio!

"Success is not the key to happiness. Happiness is the key to success. If you love what you are doing, you will be successful." – Albert Schweitzer

Hi Hrituraj Saha,

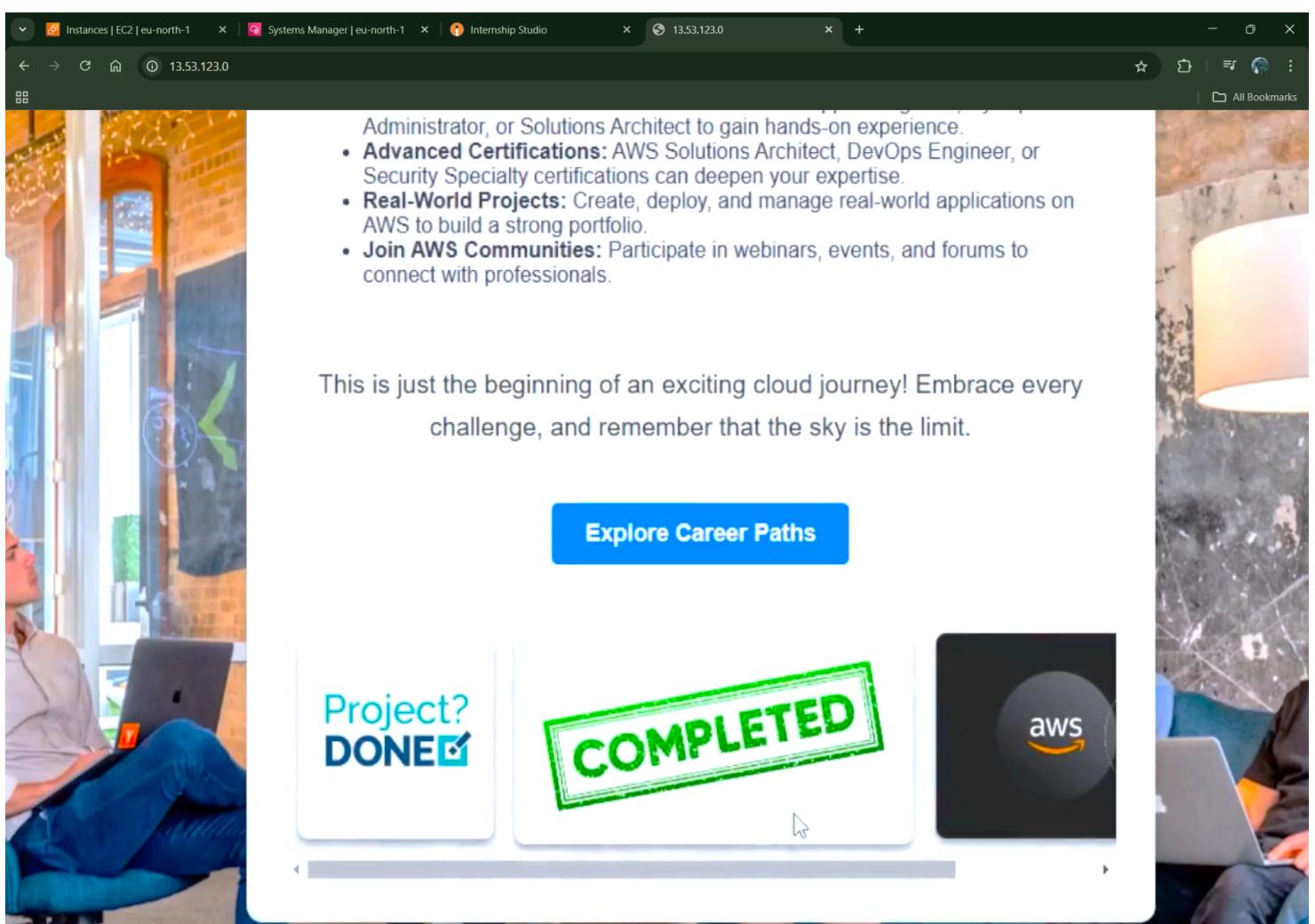
You have successfully completed your AWS training with Internship Studio! We're thrilled to celebrate this milestone with you. The dedication and skills you've developed will open new doors as you continue your journey in cloud computing.

Explore Your Next Career Path

Here are some rewarding paths to consider as you advance in your AWS journey:

- **Cloud Practitioner:** Start with roles like Cloud Support Engineer, SysOps Administrator, or Solutions Architect to gain hands-on experience.
- **Advanced Certifications:** AWS Solutions Architect, DevOps Engineer, or Security Specialty certifications can deepen your expertise.
- **Real-World Projects:** Create, deploy, and manage real-world applications on AWS to build a strong portfolio.
- **Join AWS Communities:** Participate in webinars, events, and forums to connect with professionals.

This is just the beginning of an exciting cloud journey! Embrace every challenge, and remember that the sky is the limit.



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[Explore Career Paths](#)

Project? DONE!

COMPLETED

aws