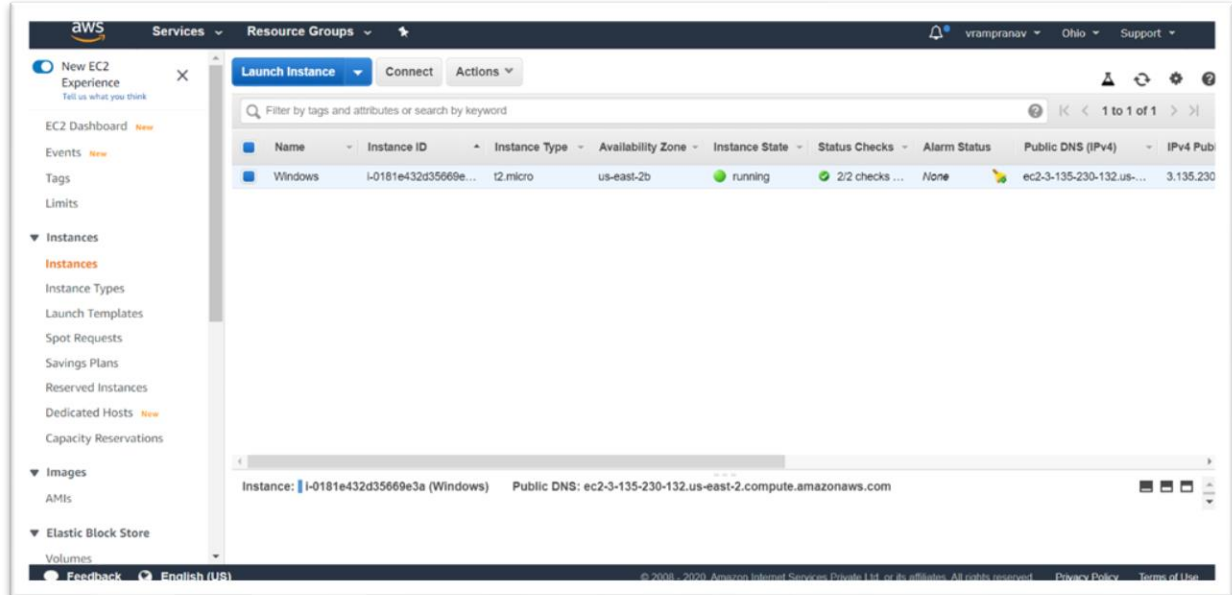


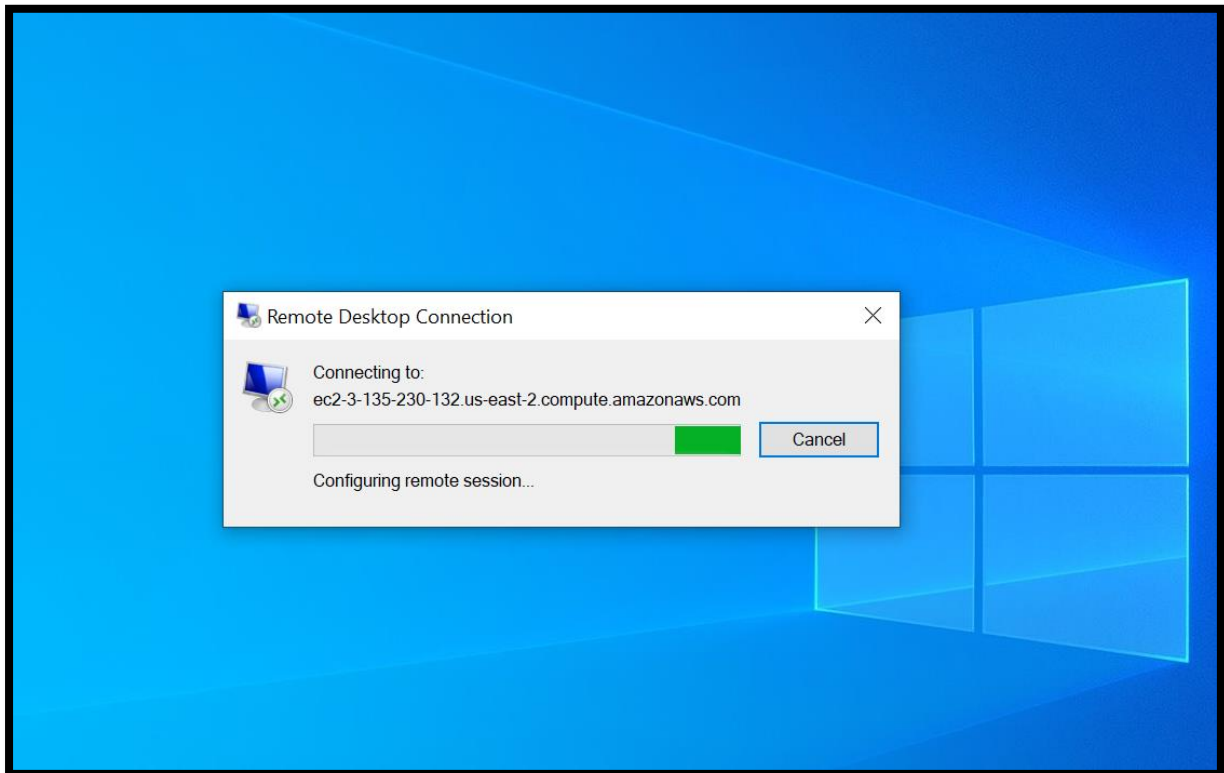
ASSIGNMENT DAY 3

PROJECT 1: Deploying a web server in Windows instance

TASK 1: Create a windows instance using AMI.



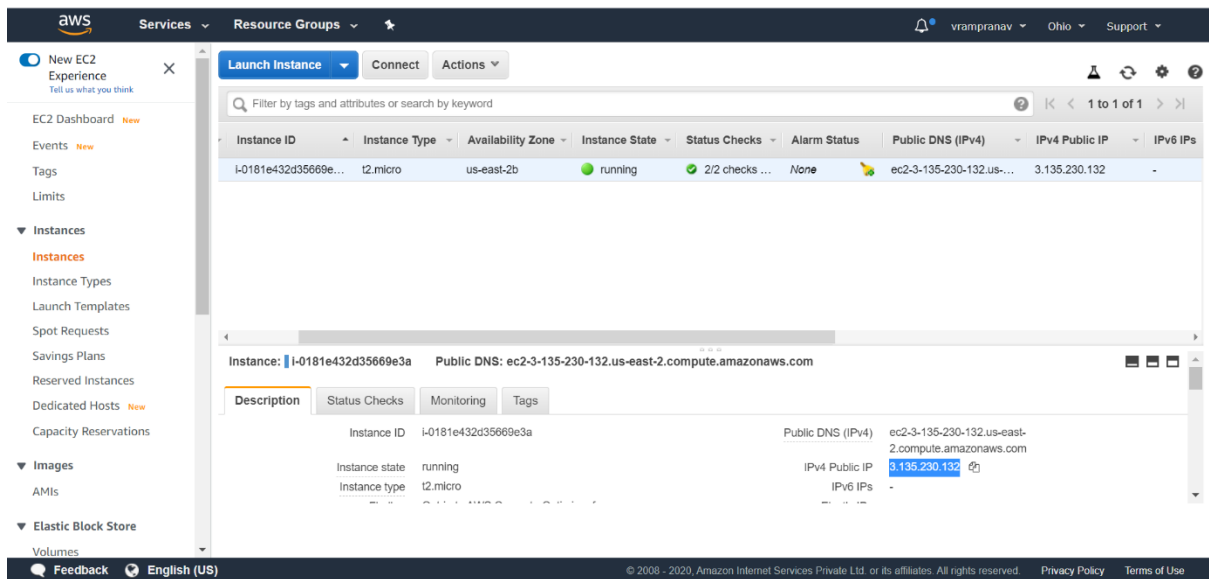
TASK 2: Launch the Windows instance using RDP



TASK 3: Install IIS web server using Powershell ISE

```
PS C:\Users\Administrator> Install-WindowsFeature -name Web-Server -IncludeManagementTools
```

TASK 4: Verify successful installation of IIS Web Server

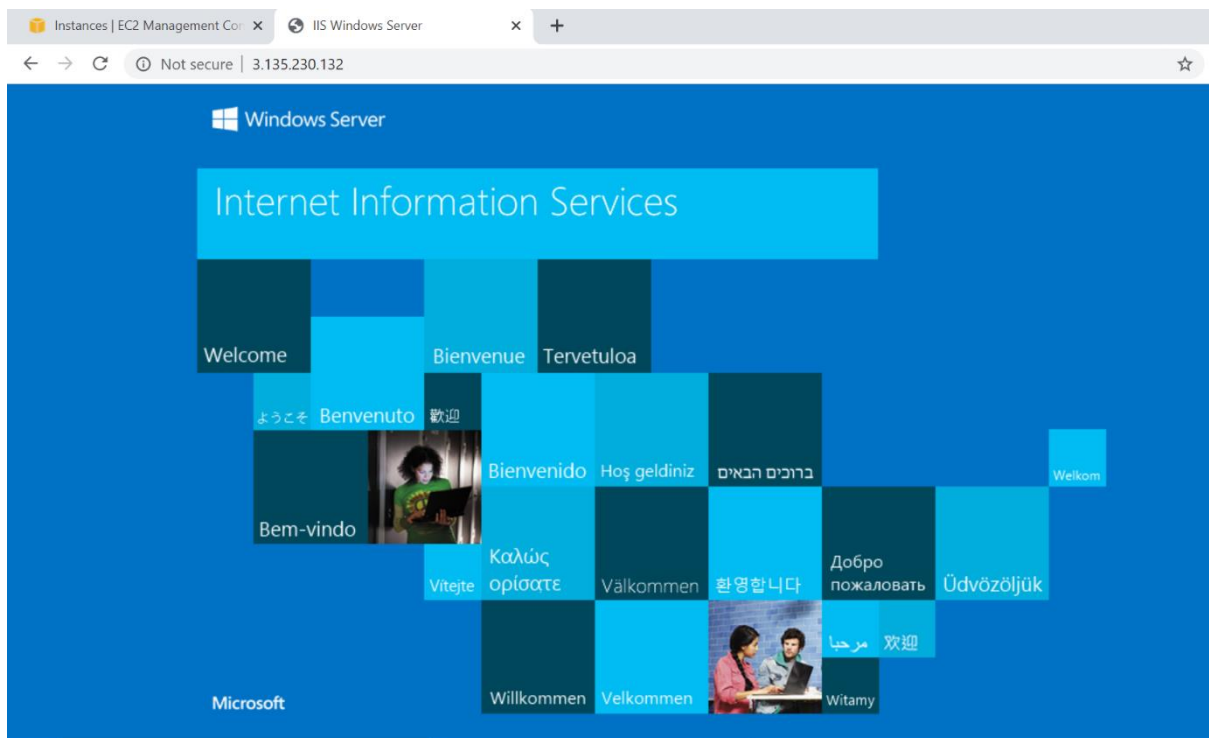


The screenshot shows the AWS Management Console interface. On the left, the navigation menu includes 'New EC2 Experience', 'EC2 Dashboard', 'Events', 'Tags', 'Limits', 'Instances', 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Capacity Reservations', 'Images', 'AMIs', 'Elastic Block Store', and 'Volumes'. The main content area displays a table of EC2 instances. The first instance is selected, showing its details in the 'Description' tab.

Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6 IPs
i-0181e432d35669e3a	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-3-135-230-132.us-east-2.compute.amazonaws.com	3.135.230.132	-

Below the table, the 'Description' tab for the selected instance is shown, displaying the following information:

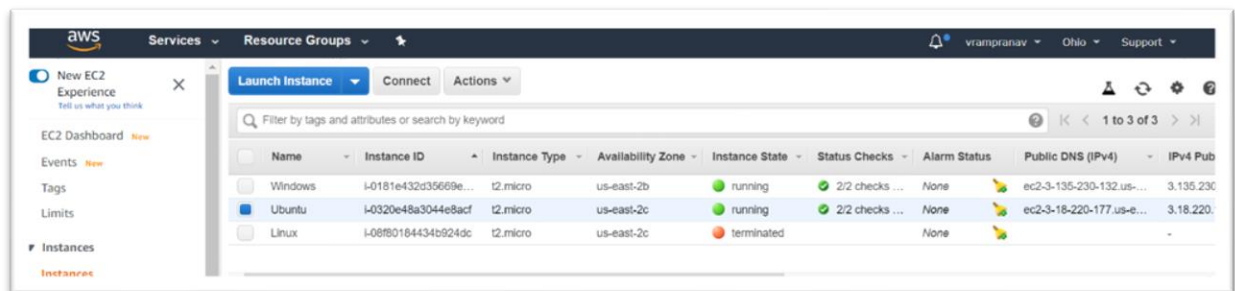
- Instance ID: i-0181e432d35669e3a
- Instance state: running
- Instance type: t2.micro
- Public DNS (IPv4): ec2-3-135-230-132.us-east-2.compute.amazonaws.com
- IPv4 Public IP: 3.135.230.132
- IPv6 IPs: -



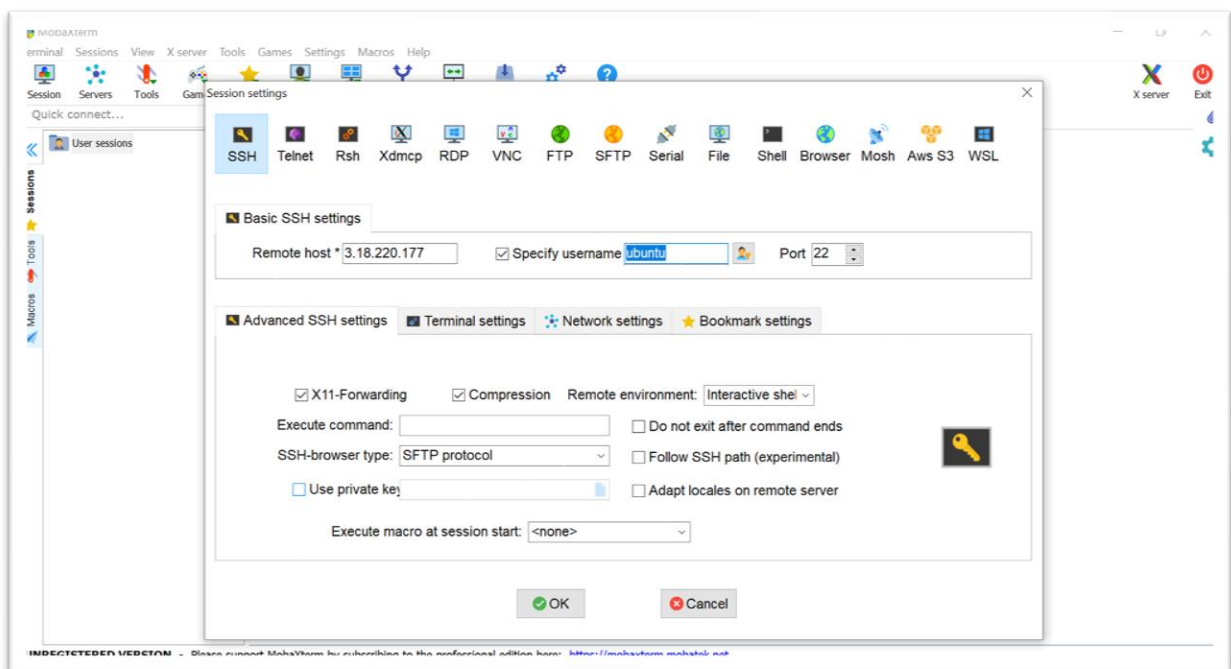
The screenshot shows the Windows Server Internet Information Services (IIS) welcome page. The page has a blue background with the Windows logo and the text 'Windows Server' at the top. Below this, the title 'Internet Information Services' is displayed. The main content area features a grid of colorful tiles, each containing a welcome message in a different language. The tiles are arranged in a pattern that resembles a staircase or a path leading towards the bottom right. The languages included are: Welcome, Bienvenue, Tervetuloa, ようこそ, Benvenuto, 歡迎, Bem-vindo, Bienvenido, Hoş geldiniz, ברוכים הבאים, Willkommen, 환영합니다, Добро пожаловать, Üdvözlök, Καλώς ορίσατε, Vitejte, Willkommen, Velkommen, مرحبا, 歡迎, and Witamy. The Microsoft logo is visible in the bottom left corner.

PROJECT 2:

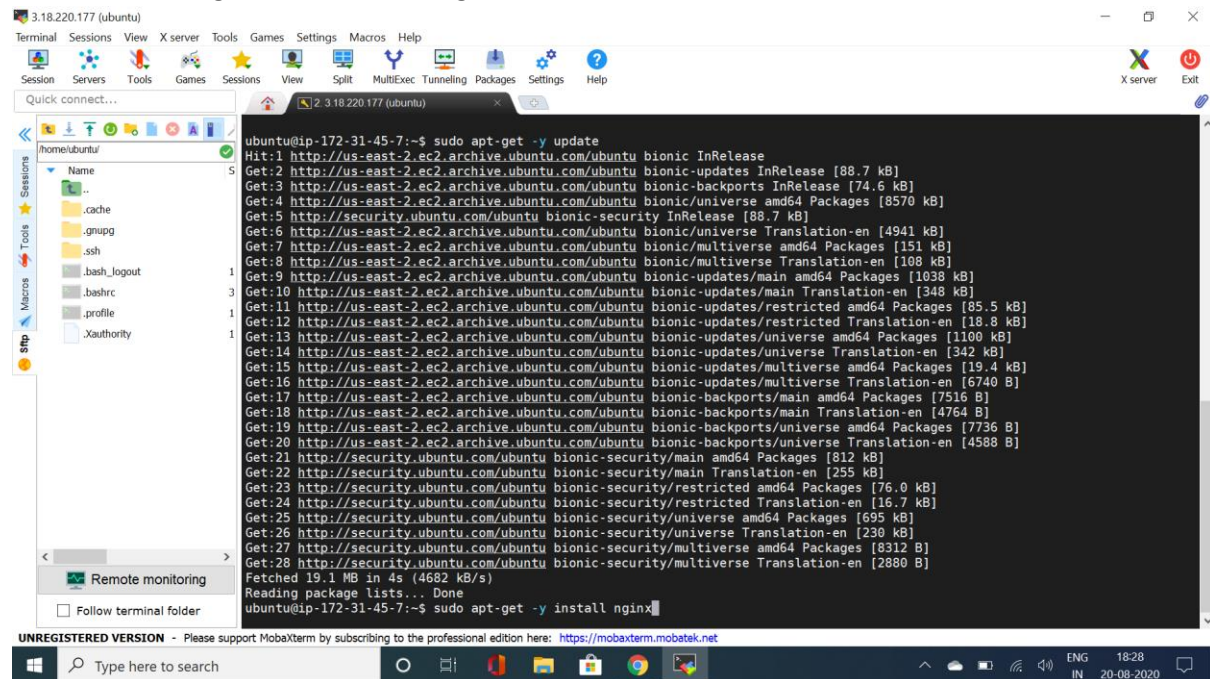
TASK 1: Create a windows instance using AMI: Ubuntu Server 18.04 LTS (HVM)



TASK 2: Launch the Ubuntu instance using SSH



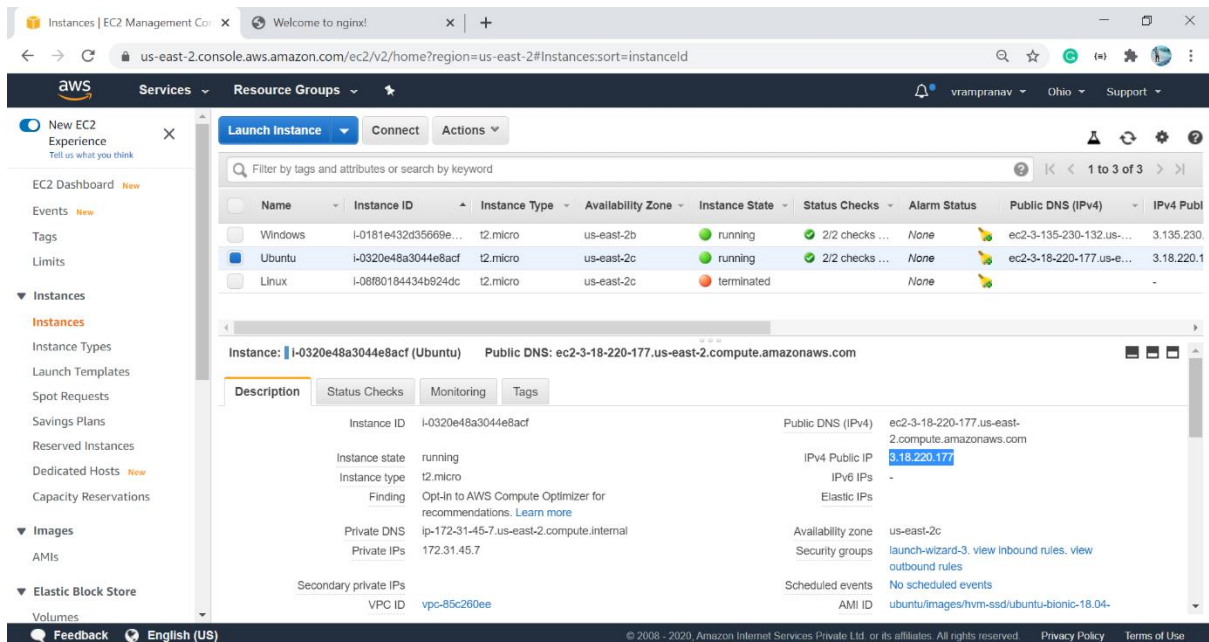
TASK 3: Install nginx web server using bash



```
ubuntu@ip-172-31-45-7:~$ sudo apt-get -y update
Hit:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic InRelease
Get:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Get:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]
Get:4 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64 Packages [8570 kB]
Get:5 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Get:6 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic/universe Translation-en [4941 kB]
Get:7 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic/multiverse amd64 Packages [151 kB]
Get:8 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic/multiverse Translation-en [108 kB]
Get:9 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64 Packages [1038 kB]
Get:10 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main Translation-en [348 kB]
Get:11 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/restricted amd64 Packages [85.5 kB]
Get:12 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/restricted Translation-en [18.8 kB]
Get:13 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 Packages [1100 kB]
Get:14 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/universe Translation-en [342 kB]
Get:15 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/multiverse amd64 Packages [19.4 kB]
Get:16 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/multiverse Translation-en [6740 B]
Get:17 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-backports/main amd64 Packages [7516 B]
Get:18 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-backports/main Translation-en [4764 B]
Get:19 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-backports/universe amd64 Packages [7736 B]
Get:20 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-backports/universe Translation-en [4588 B]
Get:21 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [812 kB]
Get:22 http://security.ubuntu.com/ubuntu bionic-security/main Translation-en [255 kB]
Get:23 http://security.ubuntu.com/ubuntu bionic-security/restricted amd64 Packages [76.0 kB]
Get:24 http://security.ubuntu.com/ubuntu bionic-security/restricted Translation-en [16.7 kB]
Get:25 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 Packages [695 kB]
Get:26 http://security.ubuntu.com/ubuntu bionic-security/universe Translation-en [230 kB]
Get:27 http://security.ubuntu.com/ubuntu bionic-security/multiverse amd64 Packages [8312 B]
Get:28 http://security.ubuntu.com/ubuntu bionic-security/multiverse Translation-en [2880 B]
Fetched 19.1 MB in 4s (4682 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-45-7:~$ sudo apt-get -y install nginx
```

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TASK 4: Verify successful installation of nginx

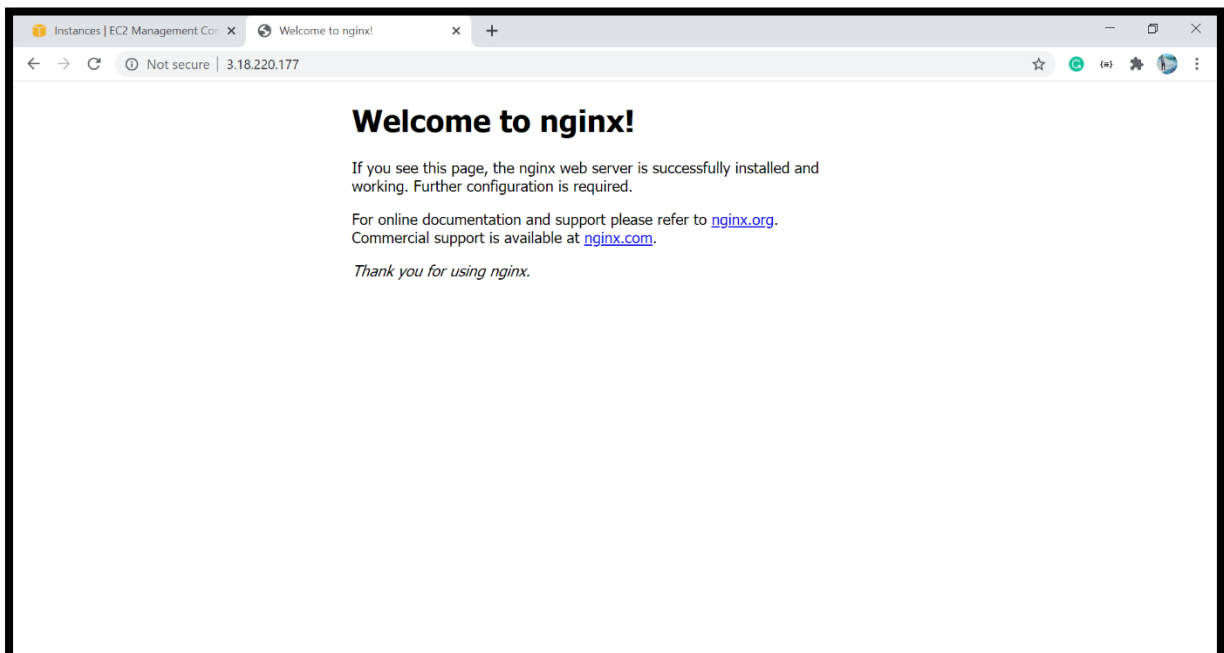


The screenshot displays the AWS Management Console interface for EC2 Instances. The left sidebar shows navigation options like EC2 Dashboard, Events, Tags, Limits, and various instance types. The main content area shows a list of instances. The 'Ubuntu' instance (i-0320e48a3044e8acf) is selected, and its details are shown in the right pane. The instance is running in the us-east-2c Availability Zone. The Public DNS (IPv4) is ec2-3-18-220-177.us-east-2.compute.amazonaws.com, and the Private IP is 3.18.220.177.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP
Windows	i-0181e432d35669e...	t2.micro	us-east-2b	running	2/2 checks passed	None	ec2-3-135-230-132.us-east-2.compute.amazonaws.com	3.135.230.132
Ubuntu	i-0320e48a3044e8acf	t2.micro	us-east-2c	running	2/2 checks passed	None	ec2-3-18-220-177.us-east-2.compute.amazonaws.com	3.18.220.177
Linux	i-08f80184434b824dc	t2.micro	us-east-2c	terminated	2/2 checks passed	None	-	-

Instance: **i-0320e48a3044e8acf (Ubuntu)** Public DNS: ec2-3-18-220-177.us-east-2.compute.amazonaws.com

Description	Status Checks	Monitoring	Tags
Instance ID	i-0320e48a3044e8acf		
Instance state	running		
Instance type	t2.micro		
Finding	Opt-In to AWS Compute Optimizer for recommendations. Learn more		
Private DNS	ip-172-31-45-7.us-east-2.compute.internal		
Private IPs	172.31.45.7		
Secondary private IPs			
VPC ID	vpc-85c260ee		
Availability zone	us-east-2c		
Security groups	launch-wizard-3, view inbound rules, view outbound rules		
Scheduled events	No scheduled events		
AMI ID	ubuntu/images/hvm-ssd/ubuntu-bionic-18.04-focal-amd64-gp2-20200714		



The screenshot shows a web browser window with the URL 3.18.220.177. The page displays a 'Welcome to nginx!' message. Below the message, it states: 'If you see this page, the nginx web server is successfully installed and working. Further configuration is required.' It then provides links to 'nginx.org' for online documentation and support, and 'nginx.com' for commercial support. The page concludes with the text 'Thank you for using nginx.'

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.