

Họ và tên: Phạm Trần Khánh Duy

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Báo cáo Labs 1-4 môn SE360 - Điện toán đám mây và phát triển ứng dụng hướng dịch vụ

Thời gian hoàn thành các Labs

	AWS	Azure
Lab 1	15/10	29/10
Lab 2	01/11	29/10
Lab 3	16-24/10	29/10
Lab 4	Chưa hoàn thành	Chưa hoàn thành

## LAB 1

### AWS Educate



This badge was issued to [Duy.Pham](#)  
Date issued: October 15, 2025

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### AWS Educate Getting Started with Compute - Training Badge

Issued by [Amazon Web Services Training and Certification](#)

Earners of this badge have completed the Getting Started with Compute training and achieved the required scores on the post-course assessment. They have demonstrated the ability to describe different types of compute and use Amazon EC2 to create a compute instance.

[Learn more](#)

Learning

## Thực hành Hands-on trên Azure for Students

```
ptkduy@My-Web-Server: ~
Setting up nginx-core (1.18.0-6ubuntu14.7) ...
  * Upgrading binary nginx
[ OK ]
Setting up nginx (1.18.0-6ubuntu14.7) ...
Processing triggers for ufw (0.36.1-4ubuntu0.1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.11) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ptkduy@My-Web-Server: $ sudo systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
  Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)
  Active: active (running) since Wed 2025-10-29 05:52:01 UTC; 13s ago
    Docs: man:nginx(8)
   Process: 5590 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=0/SUCCESS)
   Process: 5590 ExecStart=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, st
ESS)
   Main PID: 5683 (nginx)
      Tasks: 2 (limit: 1000)
        Memory: 3.9M
          CPU: 25ms
        CGroup: /system.slice/nginx.service
           ├─5683 nginx: master process /usr/sbin/nginx -t -q -g daemon on; master_process on"
           └─5683 nginx: worker process" ...
Oct 29 05:52:01 My-Web-Server systemd[1]: Starting A high performance web server and a revers...
Oct 29 05:52:01 My-Web-Server systemd[1]: Started A high performance web server and a revers...
ptkduy@My-Web-Server: ~
Lines 1-16/16 (END)
ptkduy@My-Web-Server: $ sudo ufw allow 80/tcp
sudo ufw reload
Rules updated
Rules updated (v6)
ptkduy@My-Web-Server: $
```

Phản hồi cá nhân: Tài khoản của trường dung họ tên có dấu nên service bị lỗi, không thể triển khai máy ảo. Một khác, em đã tưởng là sử dụng Command Prompt có sẵn trên Portal để SSH vào máy ảo nên đã tốn rất nhiều thời gian để tìm cách SSH.

Đề xuất:

- Thông báo rõ: sử dụng tài khoản cá nhân, username KHÔNG CÓ DẤU TIẾNG VIỆT để tránh các lỗi
- Có thể xem xét bỏ phần ghi chú (hướng dẫn có trên portal)

## LAB 2

### AWS Educate



This badge was issued to [Duy.Pham](#)  
Date issued: November 01, 2025

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**AWS Educate Getting Started with Networking - Training Badge**

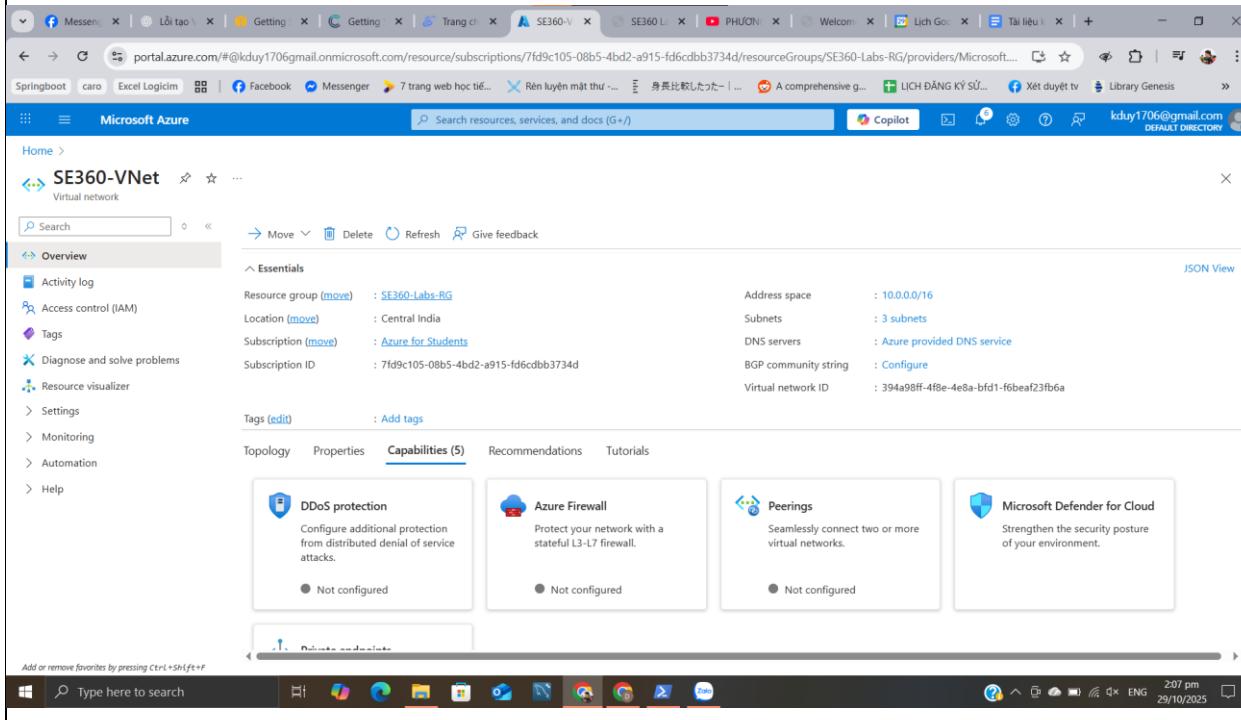
Issued by [Amazon Web Services Training and Certification](#)

Earners of this badge have completed the Getting Started with Networking training and achieved the required scores on the post-course assessment. They have demonstrated the ability to describe different ways to manage a network and how to use an Amazon VPC to do so.

[Learn more](#)



### Thực hành Hands-on trên Azure for Students



The screenshot shows the Microsoft Azure portal interface. The user is viewing the 'SE360-VNet' virtual network under the 'Virtual network' section. The left sidebar lists navigation options like Home, Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Resource visualizer, Settings, Monitoring, Automation, Help, and a search bar. The main content area displays the 'Overview' tab for the virtual network, showing details such as Resource group (SE360-Labs-RG), Location (Central India), Subscription (Azure for Students), and Subscriptions ID. It also shows the Address space (10.0.0.0/16), Subnets (3 subnets), DNS servers (Azure provided DNS service), BGP community string (Configure), and Virtual network ID (394a98ff-4f8e-4e8a-bfd1-f6beaf23fb6a). Below this, there are sections for 'Capabilities (5)' which include DDoS protection, Azure Firewall, Peering, and Microsoft Defender for Cloud, all currently set to 'Not configured'. The bottom of the screen shows the Windows taskbar with various pinned icons and the system tray indicating the date and time as 29/10/2025 at 207 pm.

**Created security rule**  
Successfully created security rule 'NSG-Inbound-Security-PostgreSQL'.

Priority ↑	Name ↑	Port ↑↓	Protocol ↑↓	Source ↑↓	Destination ↑↓	Action ↑↓
100	NSG-Inbound-Security-PostgreSQL	5432	Any	Any	Any	Allow
65000	AllowVnetInbound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancerInbound	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInbound	Any	Any	Any	Any	Deny

Phản hồi cá nhân: hướng dẫn đầy đủ, rõ ràng, dễ hiểu. Em nhận thấy việc xây dựng Security Group chưa thực sự đa dạng, giải thích vai trò của các loại cấm/cho phép data đi từ các nguồn nhất định (trong hướng dẫn gần như chỉ có Any)

## LAB 3

### AWS Educate



This badge was issued to [Duy Pham](#)  
Date issued: October 16, 2025

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#### AWS Educate Getting Started with Storage - Training Badge

Issued by [Amazon Web Services Training and Certification](#)

Earners of this badge have completed the Getting Started with Storage training and achieved the required scores on the post-course assessment. They have demonstrated the ability to describe storage solutions and use Amazon S3 to store and retrieve objects.

[Learn more](#)

Learning



This badge was issued to [Duy Pham](#)  
Date issued: October 24, 2025

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#### AWS Educate Getting Started with Databases - Training Badge

Issued by [Amazon Web Services Training and Certification](#)

Earners of this badge have completed the Getting Started with Databases training and achieved the required scores on the post-course assessment. They have demonstrated the ability to set up an Amazon Relational Database instance and how to use SQL commands to read and write to the database.

[Learn more](#)

Learning

Thực hành Hands-on trên Azure for Students

The screenshot shows a Microsoft Azure interface with the following details:

- Top Bar:** Shows various tabs like "Nam đã nhận tin cho", "Getting Started with", "Lỗi tạo VM Azure", "sql-database-azure", "SE360 Labs", "YouTube", and "Copilot".
- Middle Left Panel:** A sidebar titled "Microsoft Azure" with sections like "Overview", "Activity log", "Tags", "Diagnose and solve problems", "Query editor (preview)" (which is selected), "Mirror database in Fabric (preview)", "Resource visualizer", "Settings", "Data management", "Integrations", "Power Platform", "Security", "Intelligent performance", "Monitoring", "Automation", and "Help".
- Center Main Area:** A "Query editor (preview)" window titled "Query 1". It contains the following SQL code:

```
1 CREATE TABLE STUDENTS (
2     Id INT PRIMARY KEY,
3     HoTen NVARCHAR(50)
4 );
```
- Bottom Results Tab:** Shows "Query succeeded | 0s" and "Affected rows: 0".
- Bottom Browser Tab:** Shows a URL "ptkduystore.blob.core.windows.net/my-container/index.html" with an error message: "This XML file does not appear to have any style information associated with it. The document tree is shown below." and an XML error message:

```
<Error>
<Code>PublicAccessNotPermitted</Code>
<Message>Public access is not permitted on this storage account. RequestId:e2848367-f01e-0029-37ac-488560000000 Time:2025-10-29T08:19:21.9316246Z</Message>
</Error>
```
- Bottom Taskbar:** Shows icons for Start, Search, Task View, File Explorer, Edge, Mail, Photos, and File History, along with system status indicators.
- Bottom Text Box:** A large text box containing the Vietnamese text: "Phản hồi cá nhân: Bài Labs này được hướng dẫn chi tiết, dễ hiểu, dễ thực hiện. Tuy nhiên, em có một chút nhầm lẫn khi đi tìm dịch vụ Database và đã đi lộn sang dịch vụ khác."

