**Lab – Researching Intent-Based Networking (IBN)**.

1. **Objectives**

**Part 1: Explore the Cisco Intent-Based Networking (IBN) website**

**Part 2: Introduction to Intent-Based Networking with Cisco DevNet**

**Part 3: Explore IBN Community Requests and Share Your Own**

1. **Background / Scenario**
2. Today the network connects everything. What if the network could constantly adapt, protect, and notify based off the intent of the business owner? With an Intent-Based network, based on an open platform, the network can capture business intent and align the end-to-end network with that intent to bridge the gap between what the business needs and what the network delivers.
3. **Required Resources**

* Computer with Internet Access

1. **Explore the Cisco Intent-Based Networking (IBN) website**

In Part 1, you will be introduced to an overview and multiple use cases of Intent-Based Networking with Cisco. While reading through this site and watching the embedded videos you’ll learn about human intent being being transformed into machine policy implementation. Click on the link below to access the Cisco IBN solution website.  
[https://www.cisco.com/c/en/us/solutions/Intent-Based-networking.html#~stickynav=6](https://www.cisco.com/c/en/us/solutions/intent-based-networking.html#~stickynav=6)

* 1. **Read through the Cisco Solutions website above and answer the following questions:**

What is Intent-Based networking (IBN)?

Khi số lượng người dùng, thiết bị và ứng dụng phân tán ngày càng tăng, môi trường mạng trở nên phức tạp hơn theo cấp số nhân. IBN chuyển đổi mạng thủ công, tập trung vào phần cứng thành mạng do bộ điều khiển dẫn dắt nhằm nắm bắt ý định kinh doanh và chuyển nó thành các chính sách có thể được tự động hóa và áp dụng nhất quán trên toàn mạng. Mục đích là để mạng liên tục theo dõi và điều chỉnh hiệu suất mạng để giúp đảm bảo kết quả kinh doanh mong muốn.

List at least two reasons for using IBN.

Các thao tác đơn giản hóa

Bảo mật trên toàn cầu

1. **Introduction to Intent-Based Networking with Cisco DevNet**

In Part 2, you will be introduced to Intent-Based Networking with Cisco DevNet. While reading through this blog you’ll learn about networks being programmable and how Intent-Based networking can be integrated via code. Click on the link below to access the Cisco blog.

[https://blogs.cisco.com/enterprise/building-Intent-Based-network-with-devnet?ccid=cc000006&dtid=esoxsp000263&oid=psten009481](https://blogs.cisco.com/enterprise/building-intent-based-network-with-devnet?ccid=cc000006&dtid=esoxsp000263&oid=psten009481)

* 1. **Read through the blog using the link above and answer the following questions:**

What is the first step to get started and hands-on with coding?

Hãy tham gia một lớp học lập trình 101

With IBN in use, what should happen if a business owner specifies an intent to the network?

Chủ doanh nghiệp có thể nêu ý định kinh doanh cho mạng, chẳng hạn như “Thêm máy tính tiền mới vào doanh nghiệp của tôi” hoặc “Webex là một ứng dụng quan trọng trong kinh doanh”, sau đó ý định được chuyển thành hành động mạng. Hành động sau đó được kích hoạt trong mạng và đảm bảo được sử dụng để liên tục theo dõi, học hỏi và tối ưu hóa hiệu suất của mạng trong việc vận hành mục đích.

1. **Explore IBN Community Requests and Share Your Own**

In Part 3, you will view other community members requests for IBN code and you will share your idea for a business intent with the community. Developers in the community can turn your idea into code. Click on the link below to access the Cisco DevNet Community for Intent-Based networking and login using your Netacad.com account:

<https://developer.cisco.com/codeintent/>

* 1. **Read through some of the intents developed by the community.** 
     1. After reading through some of the intents built by community members, pick 2 intents that interest you and list them below.

1. I am a store owner. I want to add a new cash register in my store.

2. I’m a network administrator. I want to upgrade old equipment easily.

* 1. **Make an Intent Wish** 
     1. Create your own Intent Wish on the Cisco DevNet website and post it below:

**Title**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Event** **Details**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Reflection**
   1. Can you think of other use cases for Intent-Based Networking (IBN) than what you’ve found in the 3 websites?

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* 1. What type of programming skills do you think you’ll need to deploy Intent-Based networks?

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