Lab – Researching Intent-Based Networking (IBN)

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

Background / Scenario

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.

Required Resources

- Computer with Internet Access

Part 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

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

What is Intent-Based networking (IBN)?

_____

_____

List at least two reasons for using IBN.

_____

_____

Part 2: 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

Step 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?

_____

_____

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

_____

_____

Part 3: 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/

Step 1: Read through some of the intents developed by the community.

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

1._____

2._____

Step 2: Make an Intent Wish

a. Create your own Intent Wish on the Cisco DevNet website and post it below:

Title: _____

Event Details:

_____

Reflection

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

_____

2. What type of programming skills do you think you'll need to deploy Intent-Based networks?

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