

Leveraging Automation

As a Mid-Sized Organization

AUTOCON 2

THE NETWORK AUTOMATION CONFERENCE

About Me



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Overcoming Constraints

Typical Constraints

- Limited resources
 - No dedicated network automation teams
 - Smaller infrastructure to support automation
 - Budget constraints
- Lacking a scalable approach

Addressing Resource Limitations

- How do we supplement the lack of dedicated resources?
 - Initially, sometimes you don't.
- What if the budget is ZERO?
 - Think about what's already available to you.

Resolving Scalability Issues

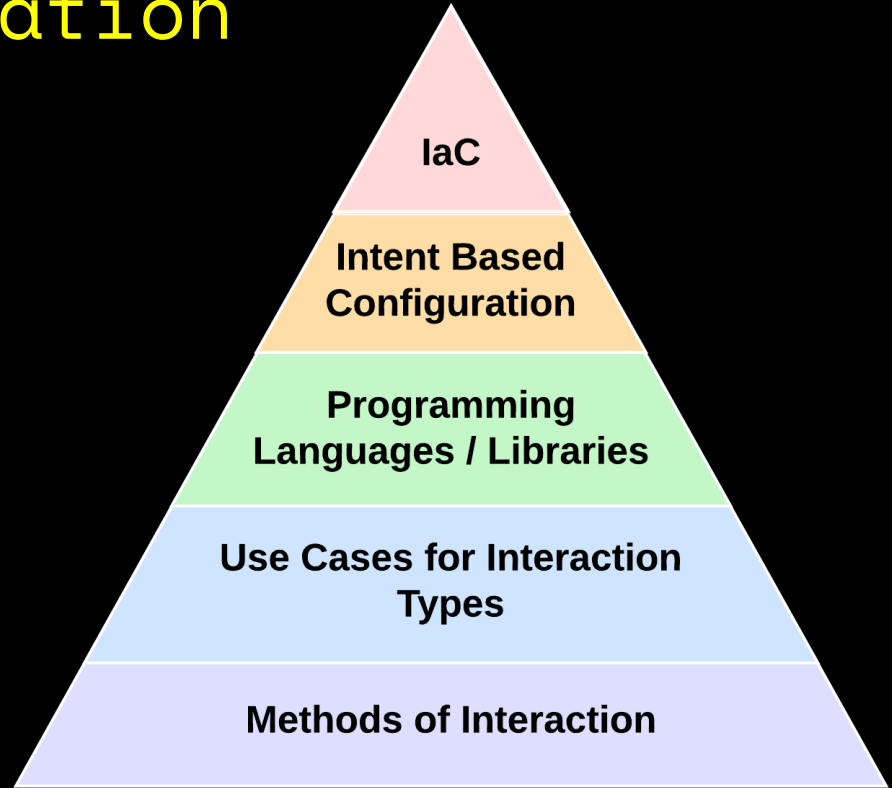
- How do we ensure that our projects are robust enough to scale?
- How do we promote widespread understanding of our code?
 - #how many comments are too many?

Your First Project

(technical perspective)

Building the Foundation

- Should you jump right to IaC tools and IBN?
- Does your team understand the foundations of automation?



Deciding Your First Project

- Start with a...
 - Read-only project
 - Project that has measurable operational value
- Your first project is your first impression!

First Project Tools



Version
Control



IDE



IaC

+

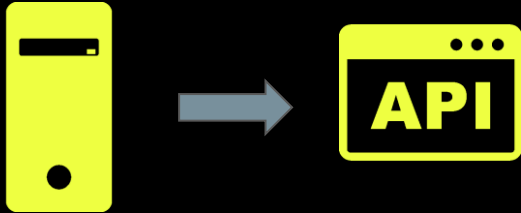
Existing
APIs

Coding Your First Project

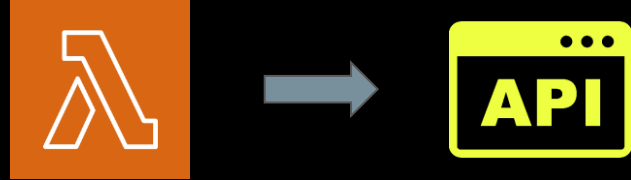
- Ensure your project has a thorough readme.
- Always produce requirements.txt, .env templates, etc.

Hosting Your Code

On-Prem



Cloud



Scaling Your First Project

- Don't let your project turn into tech debt!
 - Version control is a must, even in the smallest of projects.

Redundancy and Longevity

- Code needs to be transportable to be scalable.
- Multiple people should be able to explain what your code does, and why it does it.

Thank You!