Journey Map Approach
To Implementing Network Automation with Ansible

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Share your automation story

1. How did you get started with Ansible?

2. How long have you been using it?

3. What's your favorite thing to do when you Ansible?
This WILL be an interactive session...

Please register here to take part in the interactive parts of the session:

PollEV.com/walterbentley
AGENDA

- Identify the Ask
- Embrace the Need for a Framework
- What is the MVP?
- Identify What Phase You Are In
Identify the Ask
### IDENTIFY THE ASK

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<th>Define the Strategy</th>
<th>ECM</th>
<th>Impact of Automation</th>
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<tr>
<td>Why are we here?</td>
<td></td>
<td>Discussion focused on how automation will impact people, process and technology</td>
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<tr>
<td>What are the business drivers and what does success look like?</td>
<td>End State, Current State &amp; MVP</td>
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DEFINE THE STRATEGY

- Current business & IT landscape
- Ongoing and planned projects
- Business objectives
- Focus / Problem areas
- Constraints
- Security Considerations
END STATE, CURRENT STATE AND MVP

What is the desired END STATE?

What does the CURRENT STATE look like?

Determine what an acceptable MVP looks like
IMPACT OF AUTOMATION
Embrace the Need
# THE JOURNEY MAP

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<th>Prepare</th>
<th>Initiate</th>
<th>Expand</th>
<th>Accelerate</th>
<th>Optimize</th>
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<td>Build out framework to deliver network automation at scale</td>
<td>Pilot with identified use cases that would be MVP</td>
<td>Craft automation content to support standard networking operations</td>
<td>Expand automation adoption and engage the community</td>
<td>Refine processes in order to drive increased network service efficiency.</td>
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Increment 1 | Increment 2 | Increment 3 | Increment 4 | Increment 5
PREPARE

- Design
  - Project Management
  - Network assessment
- Sprint 1*
  - Configuration management and role definition
- Sprint 2
  - Workflow automation
- Sprint 3
- Sprint 4
  - Tool integration
- Sprint 5
- Sprint 6

Mentoring & Documentation
What is the MVP?
MVP (Most Valuable Player)
Minimum Viable Product

Keywords:

**MINIMUM** means that the product is so bad, that nobody wants to use it

**MINIMUM+VIA BLE** means it’s a mix between those two; minimum enough to solve the users problem

**VIA BLE** means that the product is fast, reliable, optimised, well designed and looks professional
MVP for Network Automation

MVP should be quantifiable and measurable. Team should be able to reach MVP within a deterministic timeframe. For example,

In network automation, MVP could be a production ready ansible tower deployment, a model to implement management configuration of network devices. This model should be the single source of truth used to configure and check compliance against for a vendor-specific class of devices, such as Cisco IOS. This should be implemented in increments 1 and 2.
Identify What Phase
Increment 1

Prepare

Start your journey here if you have:

- Little to no network automation with Ansible
- Team has little to no exposure to Ansible playbook
- No configuration management of network devices
- No centralized source for network device information
Initiate Pilot with identified use cases that would be MVP

Start your journey here if you have:

- Some automation with Ansible playbooks
- Team is familiar with Ansible playbook syntax and execution
- No centralized repository for storing playbooks and artifacts
- No templates for configuration
Increment 3

Craft automation content to support standard networking operations

Start your journey here if you have:

- Template based configuration of devices, certain attributes
- Devices organized by type and function
- Use of inventory to capture device attributes that are part of automation
- Tiger team implementing network automation
## Increment 4

### Accelerate

- Complete network device automation using Ansible
- Integration with tools such as ticketing
- Use of CI/CD to migrate configuration changes from Dev/Test to Production
- Minimal configuration drift that can be remediated using inventory sources
Increment 5

Optimize

Refine processes in order to drive increased network service efficiency.

- Tiger(COE) team using Ansible best practices and extending network automation to other teams
- Role based access for identified classes of automation users and developers
- Single source of truth implemented and utilized to eliminate configuration drift
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THANK YOU

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