



SovLABS

Integrating vRealize Automation and Ansible Tower

SovLabs Ansible Tower Integrations for vRealize Automation

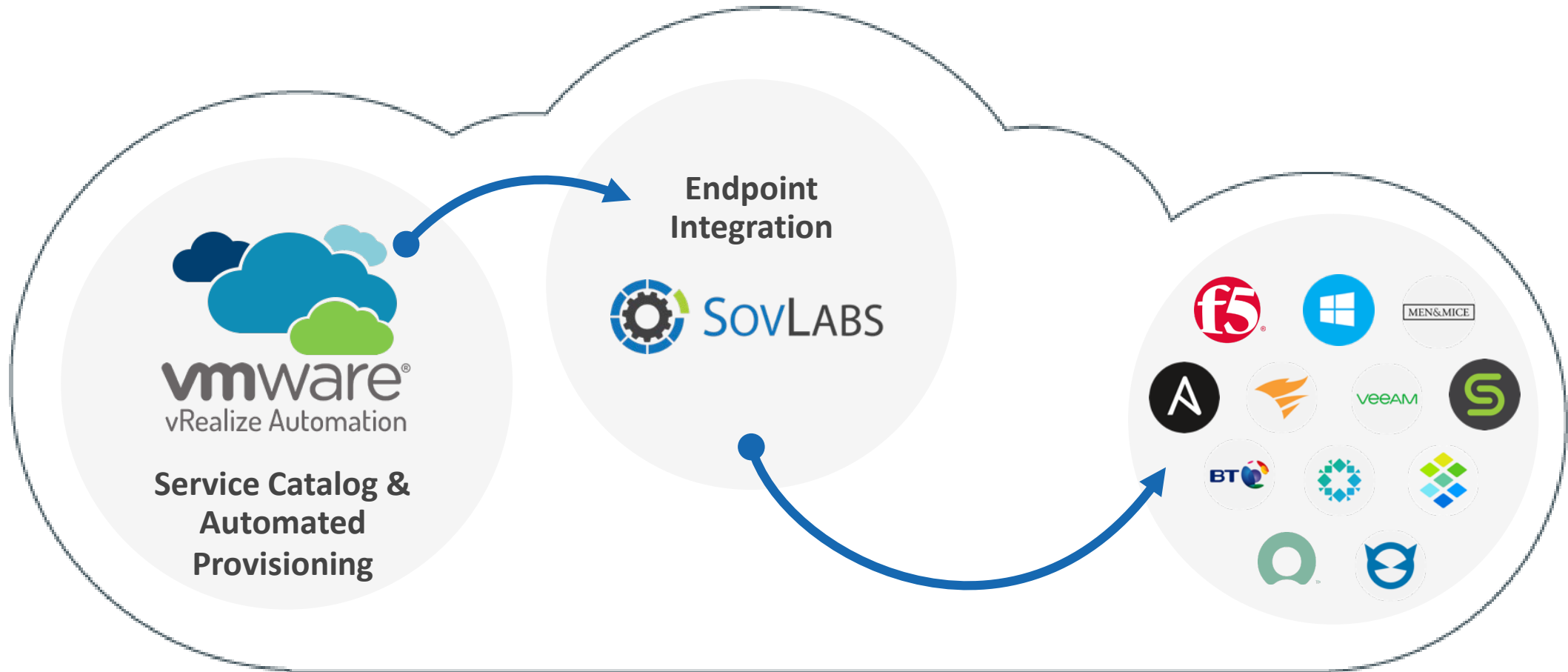


Sid Smith
Principal Solution Architect
ssmith@sovlabs.com

Agenda

- 1 Requesting a workload deployment from any platform (Ansible)
- 2 SovLabs Ansible Tower Module for vRealize Automation with Static Inventory
- 3 SovLabs Ansible Tower Module for vRealize Automation with Dynamic Inventory
- 4 SovLabs Ansible Tower Plug-in for vRealize Automation CM Framework




SovLabs makes integrating with VMware Cloud Management a simple, plug-and-play scenario.






SovLabs Modules

PLATFORM EXTENSIONS



PLATFORM EXTENSIONS

-  Notifications
-  Custom Naming
-  Active Directory

vSPHERE

-  vSphere DRS
-  vSphere Snapshot MGMT
-  VM Tagging

vREALIZE AUTOMATION TOOLKITS

-  Property Toolkit
-  Lifecycle Components Toolkit


CONNECTORS

SERVICE MANAGEMENT





-  ServiceNow Connector

ENDPOINT INTEGRATIONS

IPAM & DNS

-  Bluecat
-  Infoblox
-  Microsoft
-  BT Diamond IP
-  Men & Mice
-  SolarWinds

CONFIGURATION MANAGEMENT

-  Ansible Tower
-  Puppet Open Source with Foreman
-  Puppet Enterprise
-  Red Hat Satellite

BACKUP-AS-A-SERVICE

-  Cohesity
-  Rubrik
-  Veeam

SERVICE MANAGEMENT

-  ServiceNow CMDB

NETWORK & SECURITY

-  F5

Ansible Tower Plug-ins and Licensing

One license, two ways to consume



SovLabs Ansible Tower Module
for vRealize Automation

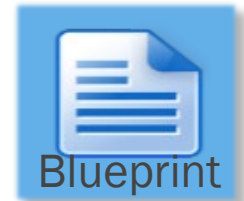


SovLabs Ansible Tower Plug-in for
vRealize Automation CM Framework

**Requires vRealize Automation Enterprise*

Request workload deployment from any Platform

 Ansible Tower

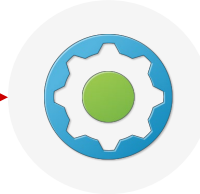


Request workload deployment from any Platform

 **Ansible Tower**

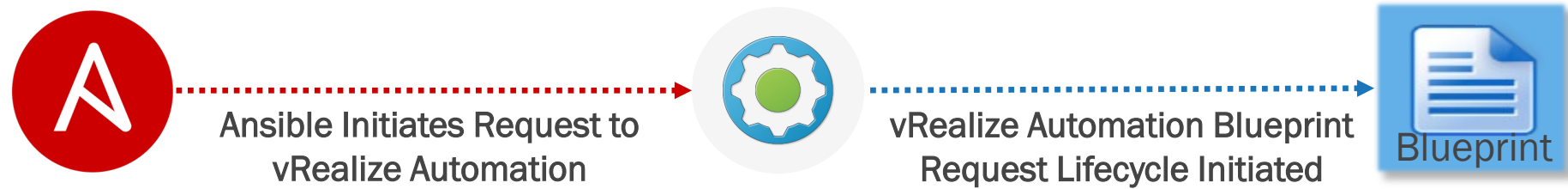


Ansible Initiates Request to
vRealize Automation



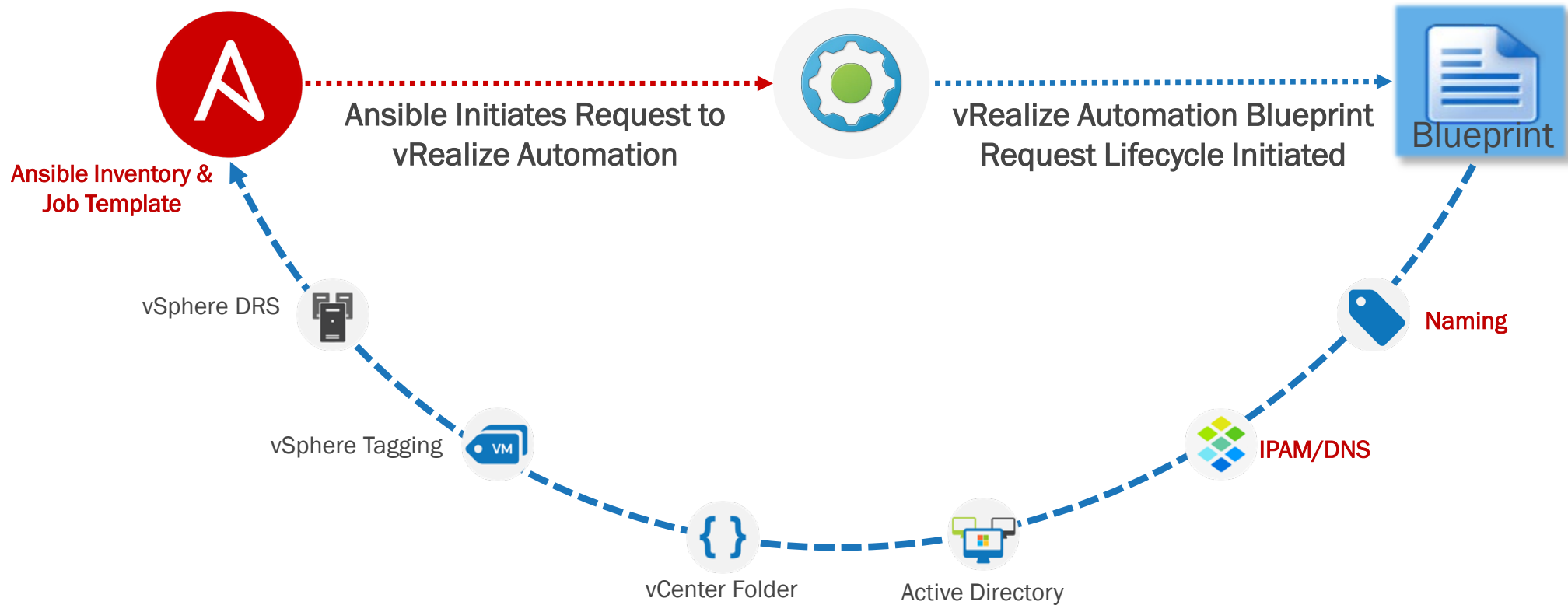
Request workload deployment from any Platform

Ansible Tower



Request workload deployment from any Platform

Ansible Tower

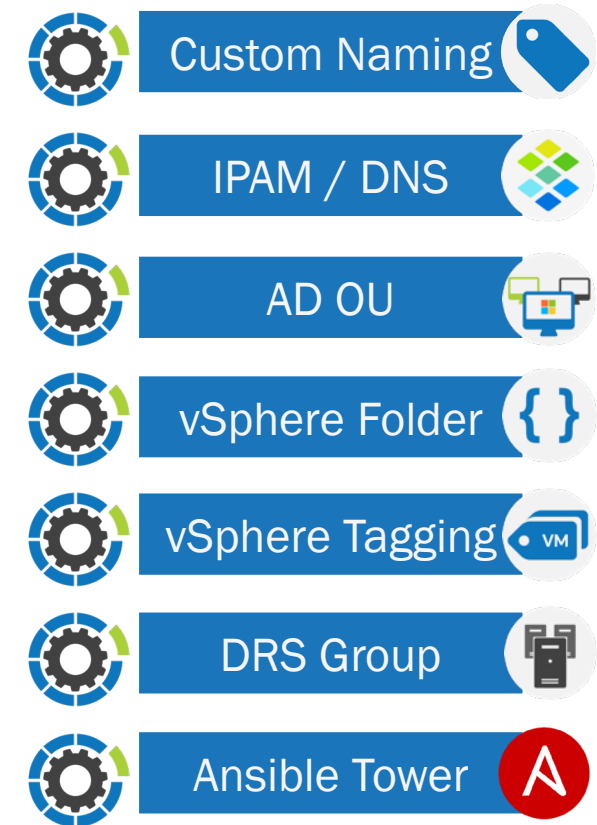
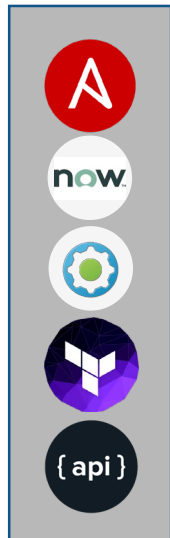


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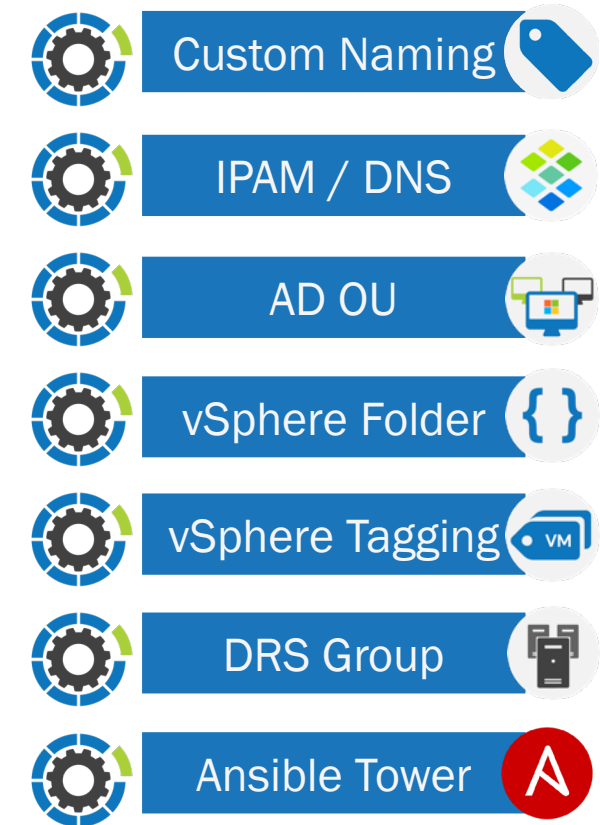
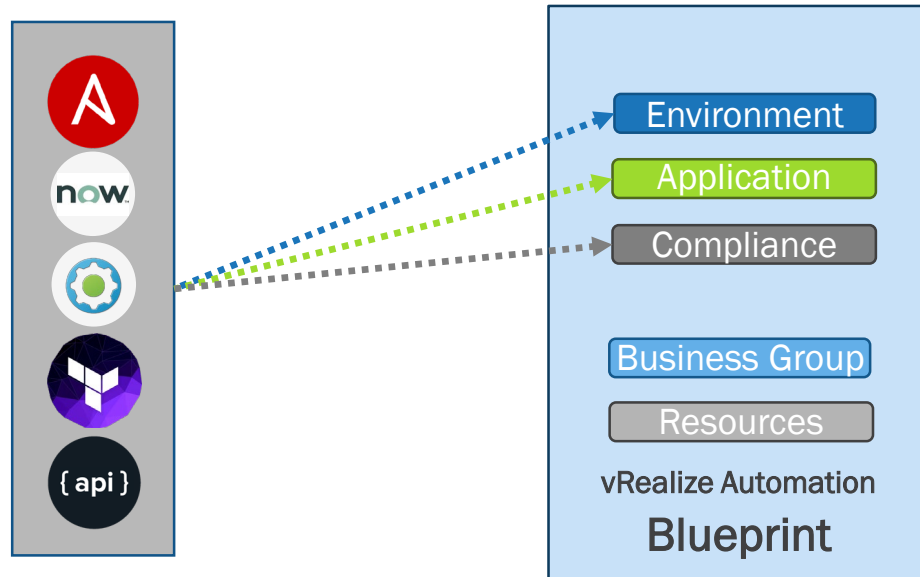


⋮	01atpnmsdw0089 - 907 :: Execute AnsibleTowerProfile Job Template	completed	5/16/2019, 3:02:32 PM	5/16/2019, 3:02:34 PM	vrasvc@sovlabs.net
⋮	01atpnmsdw0089 - 907 :: Cohesity machineProvisioned	completed	5/16/2019, 2:56:04 PM	5/16/2019, 3:01:42 PM	vrasvc@sovlabs.net
⋮	01atpnmsdw0089 - 907 :: ServiceNow Cmdb machineProvisioned	completed	5/16/2019, 2:55:54 PM	5/16/2019, 2:56:00 PM	vrasvc@sovlabs.net
⋮	01atpnmsdw0089 - 907 :: AD machineProvisioned	completed	5/16/2019, 2:54:44 PM	5/16/2019, 2:55:47 PM	vrasvc@sovlabs.net
⋮	01atpnmsdw0089 - 907 :: DRS machineProvisioned	completed	5/16/2019, 2:54:34 PM	5/16/2019, 2:54:36 PM	vrasvc@sovlabs.net
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⋮	01atpnmsdw0089 - 907 :: Property Toolkit OVF_OVA machineBuilding	completed	5/16/2019, 2:46:39 PM	5/16/2019, 2:46:42 PM	vrasvc@sovlabs.net
⋮	01atpnmsdw0089 - 907 :: AD machineBuilding	completed	5/16/2019, 2:44:51 PM	5/16/2019, 2:46:33 PM	vrasvc@sovlabs.net
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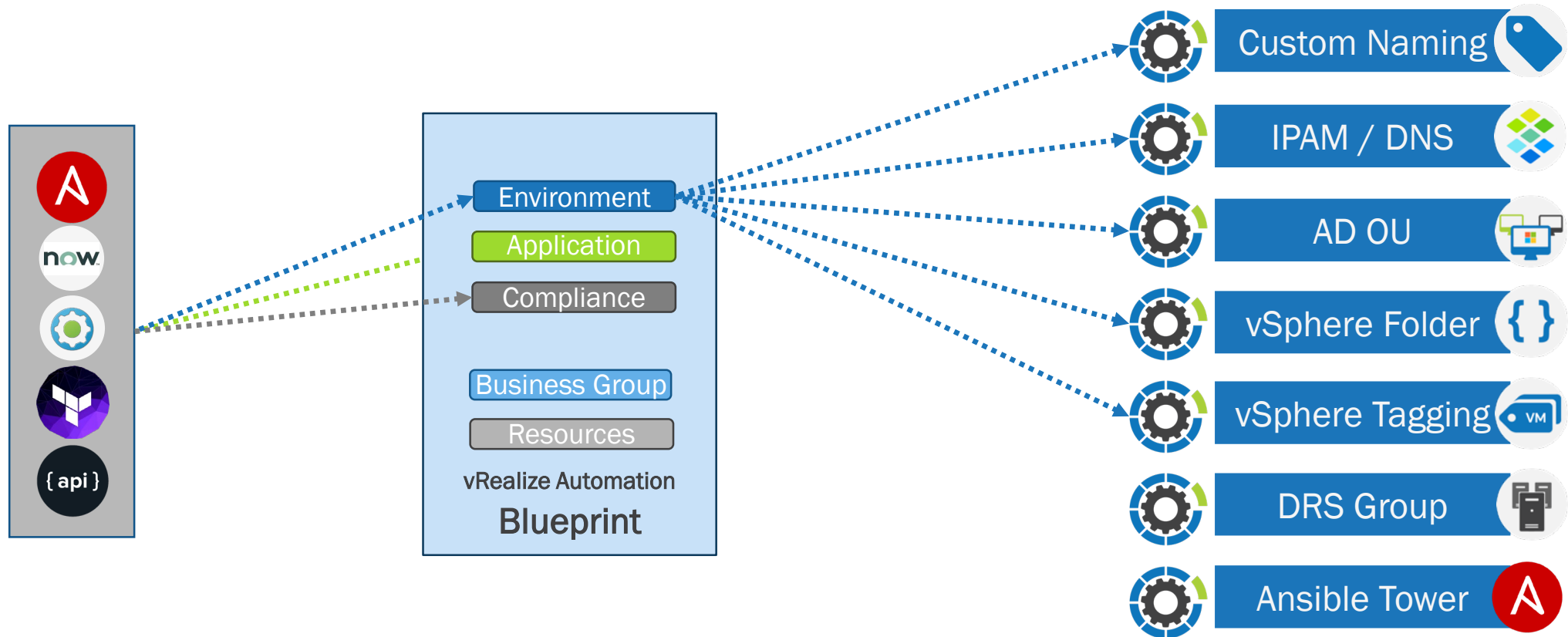
SovLabs Data Driven Approach



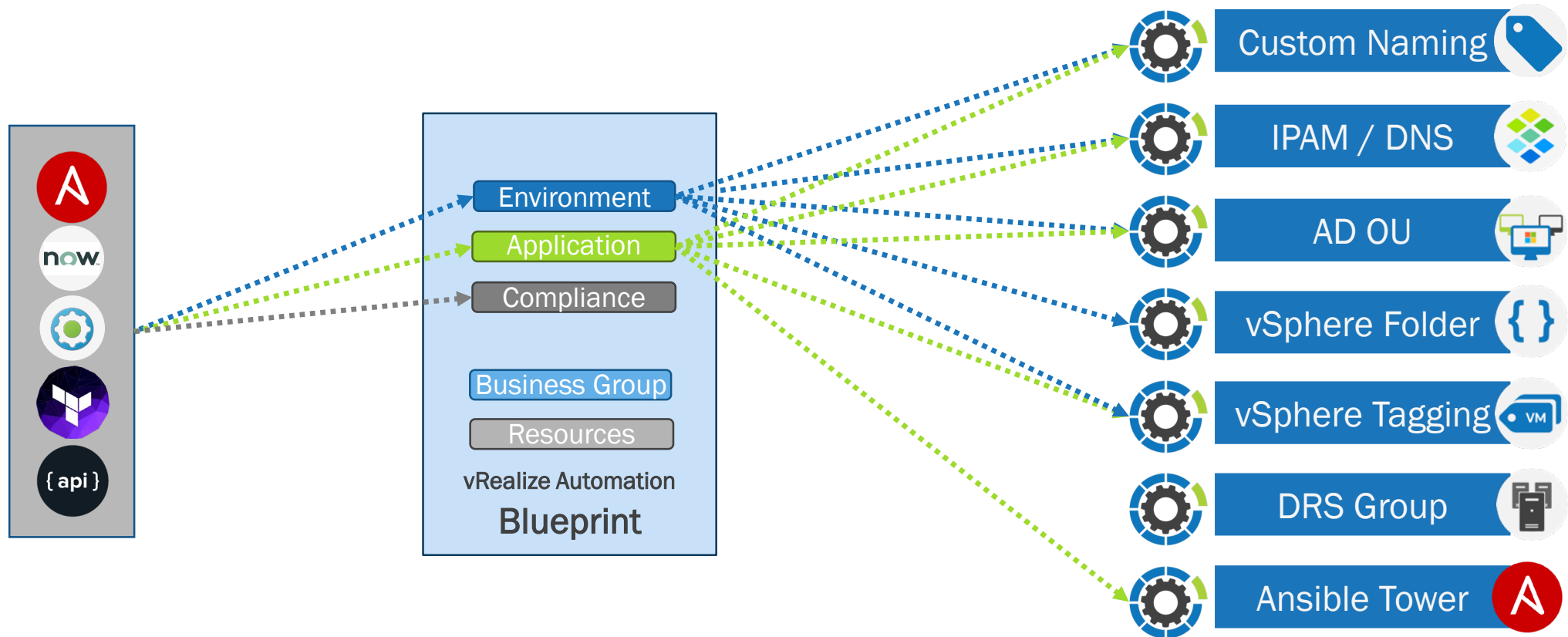
SovLabs Data Driven Approach



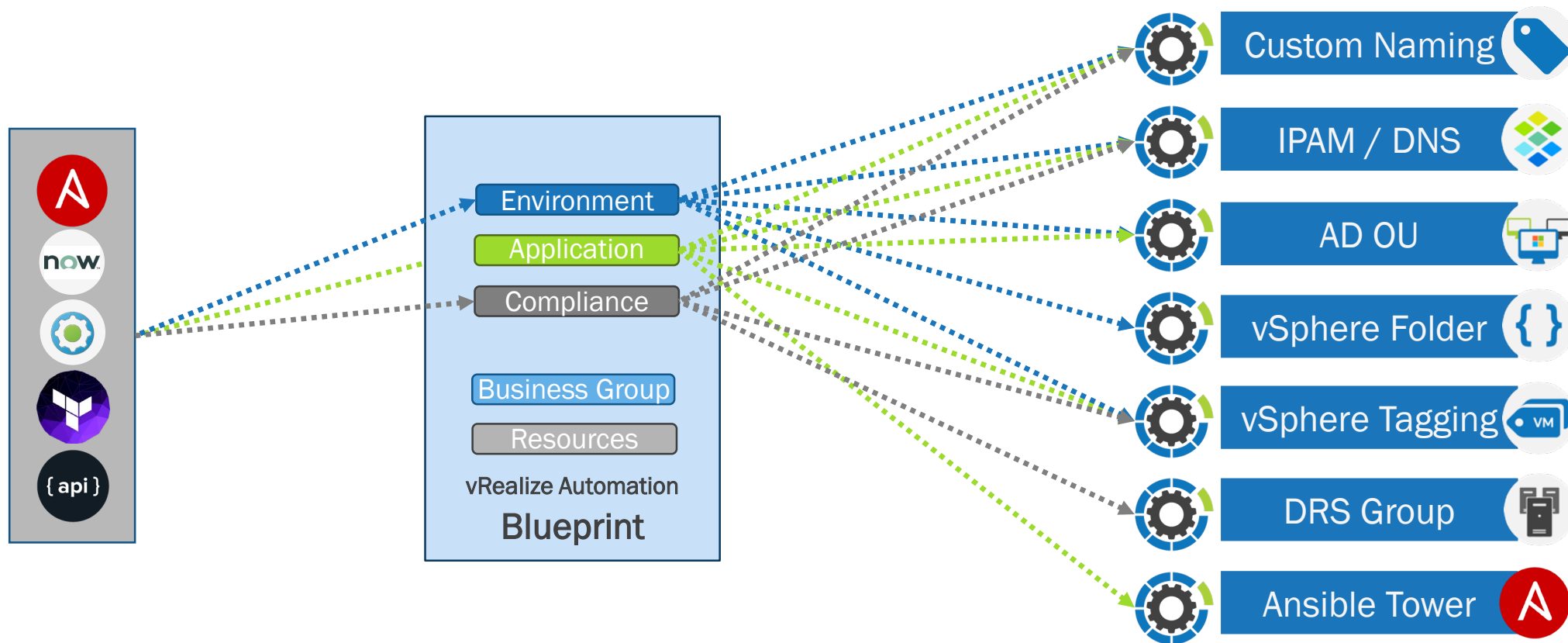
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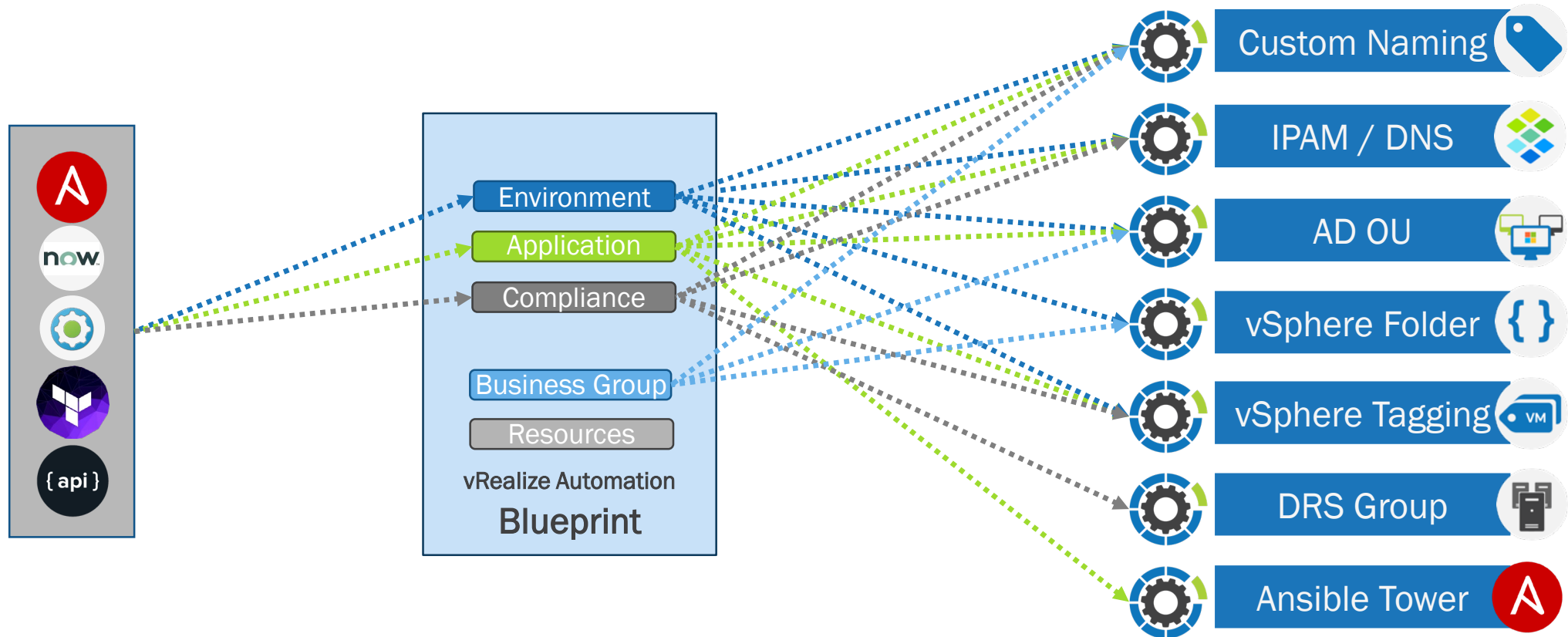
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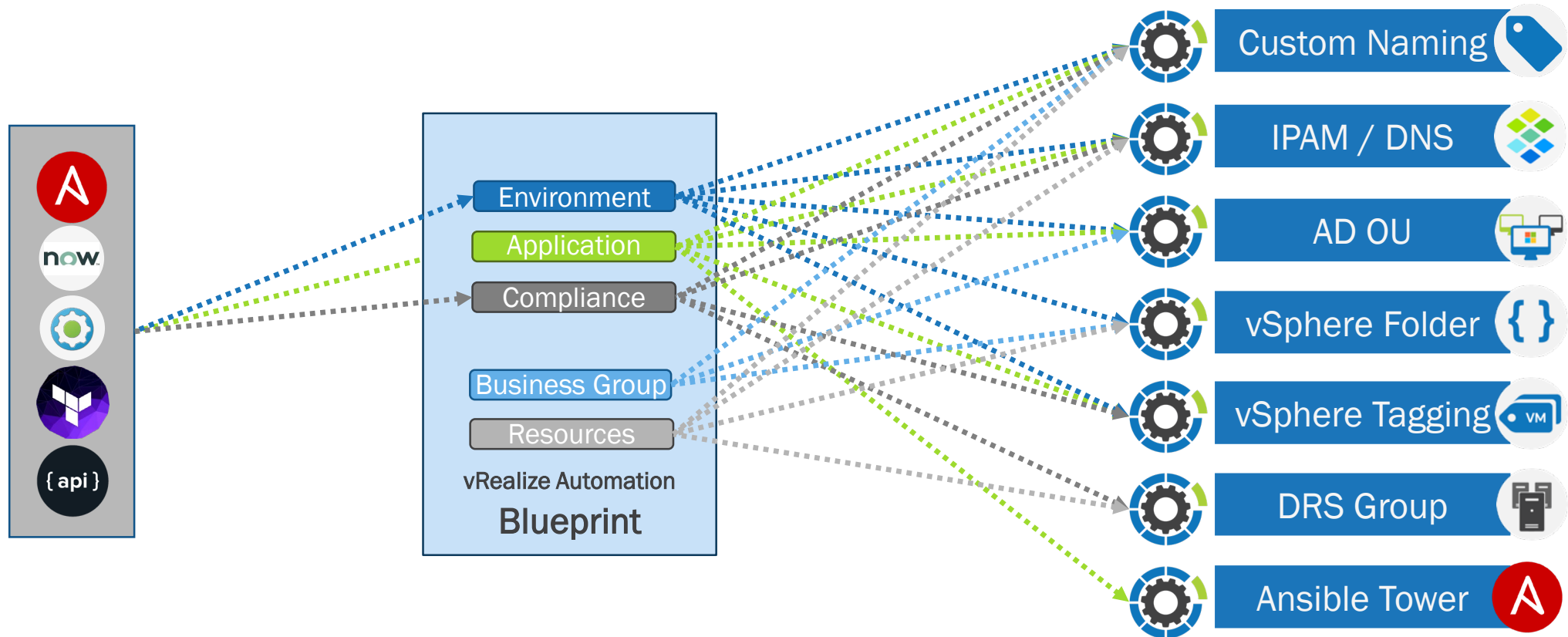
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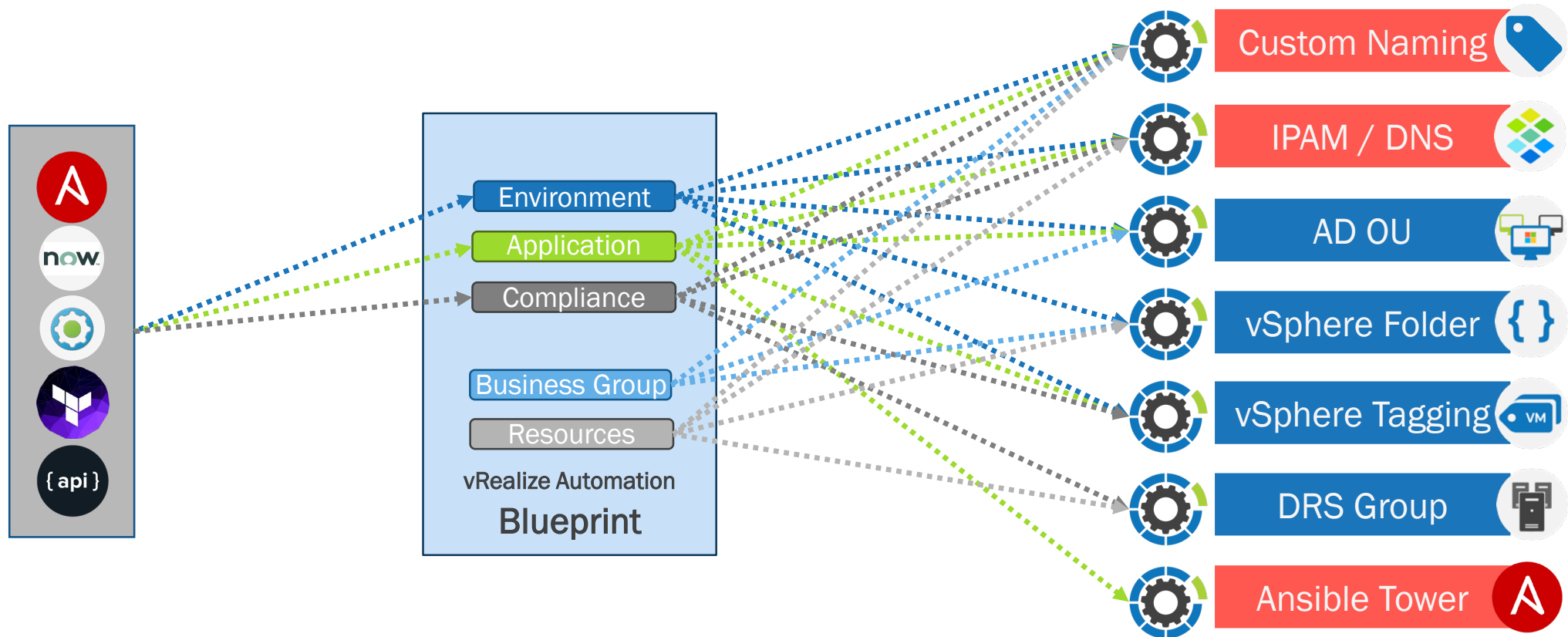
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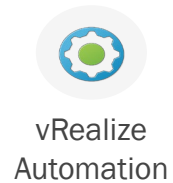


This approach is achievable only with the SovLabs Non-CM Framework Ansible Tower Module

*Has dependencies on additional SovLabs Modules such as the SovLabs Property Toolkit

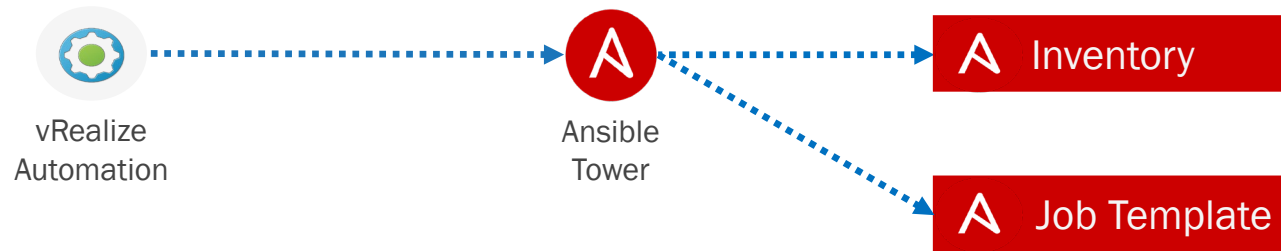
SovLabs Ansible Tower Module

Ansible Tower Integration with **Static** Inventory & Job Template Execution



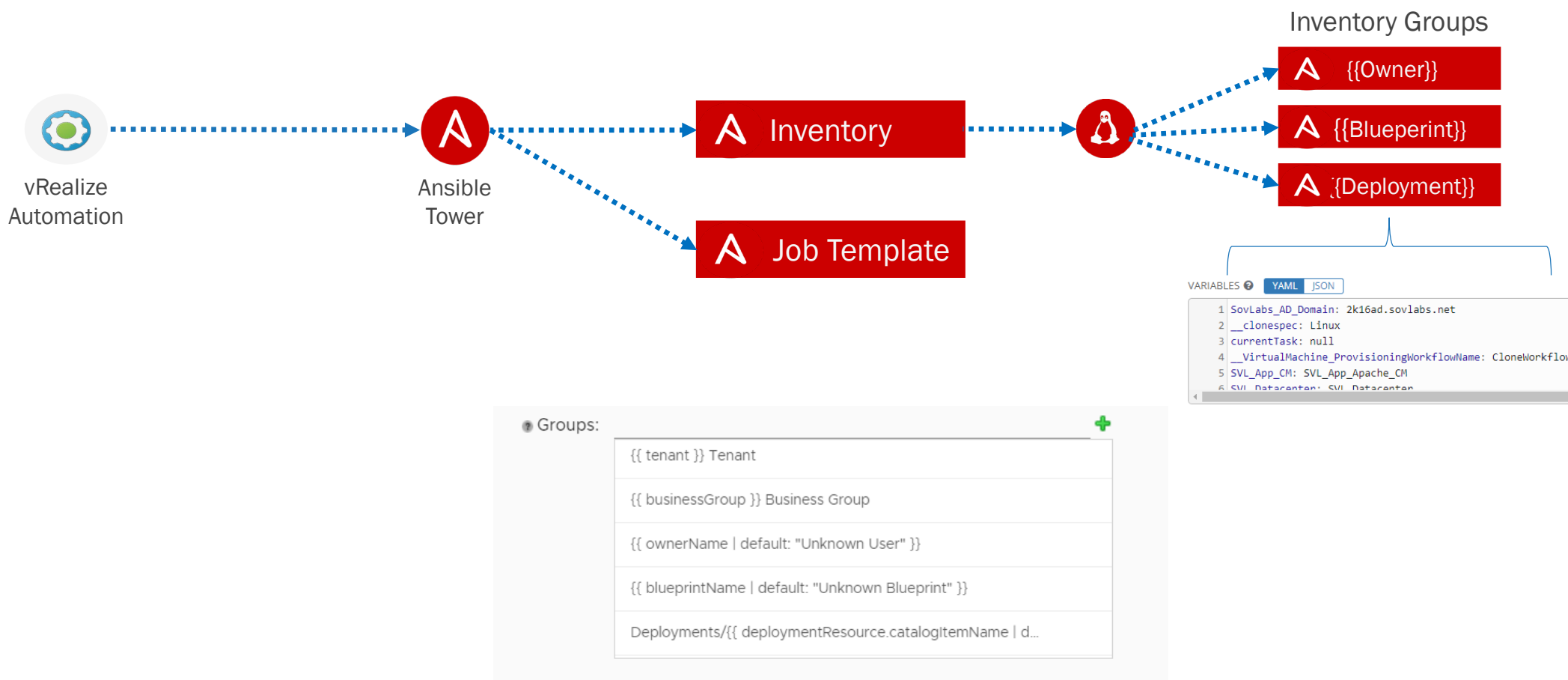
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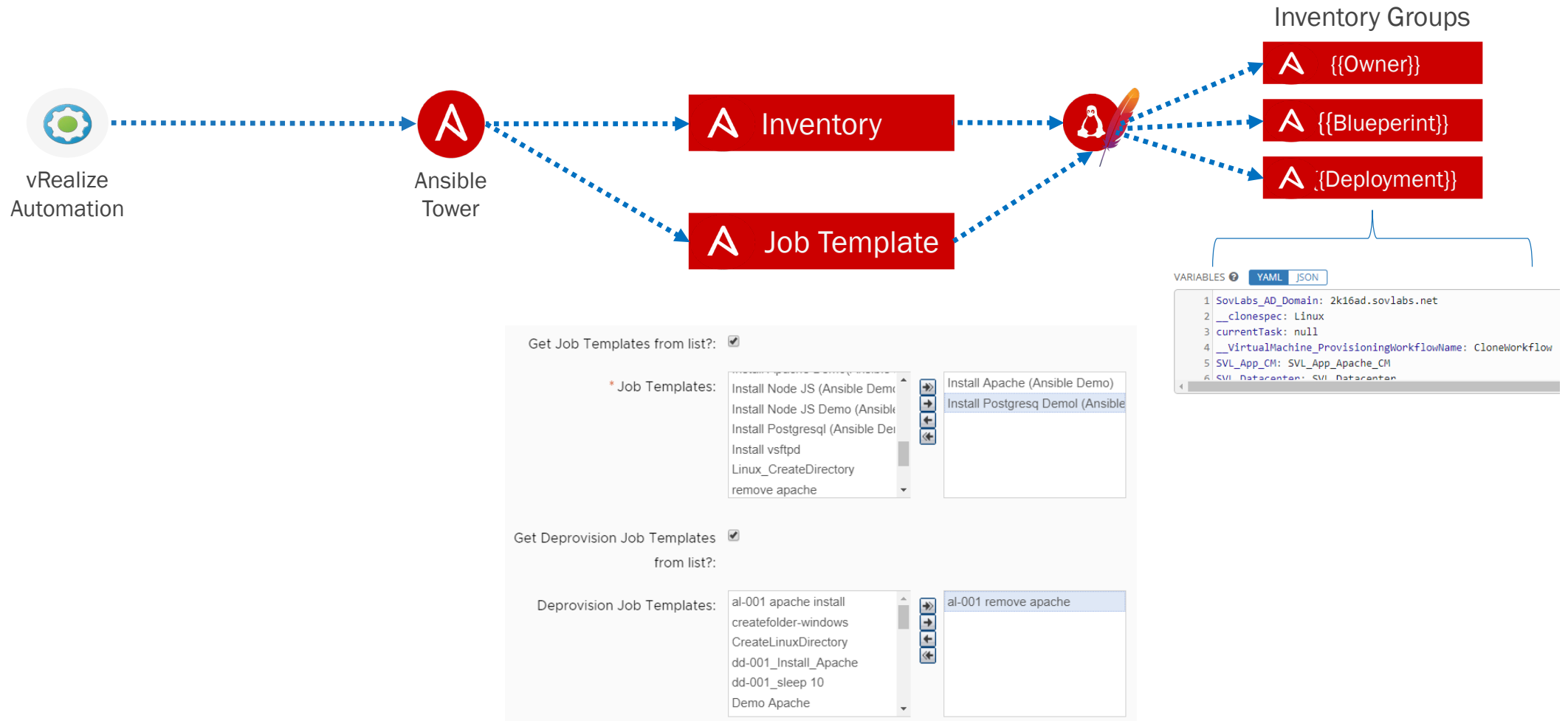
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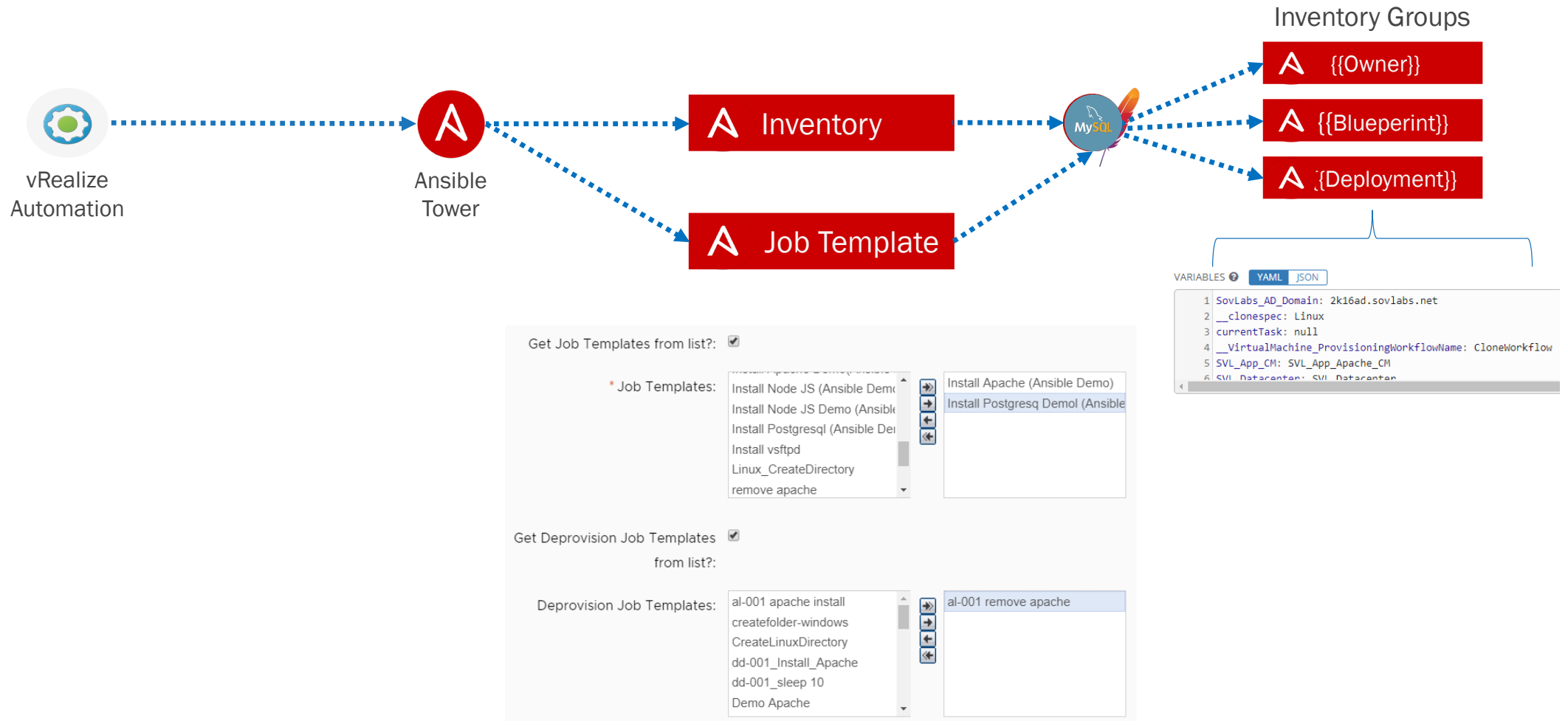
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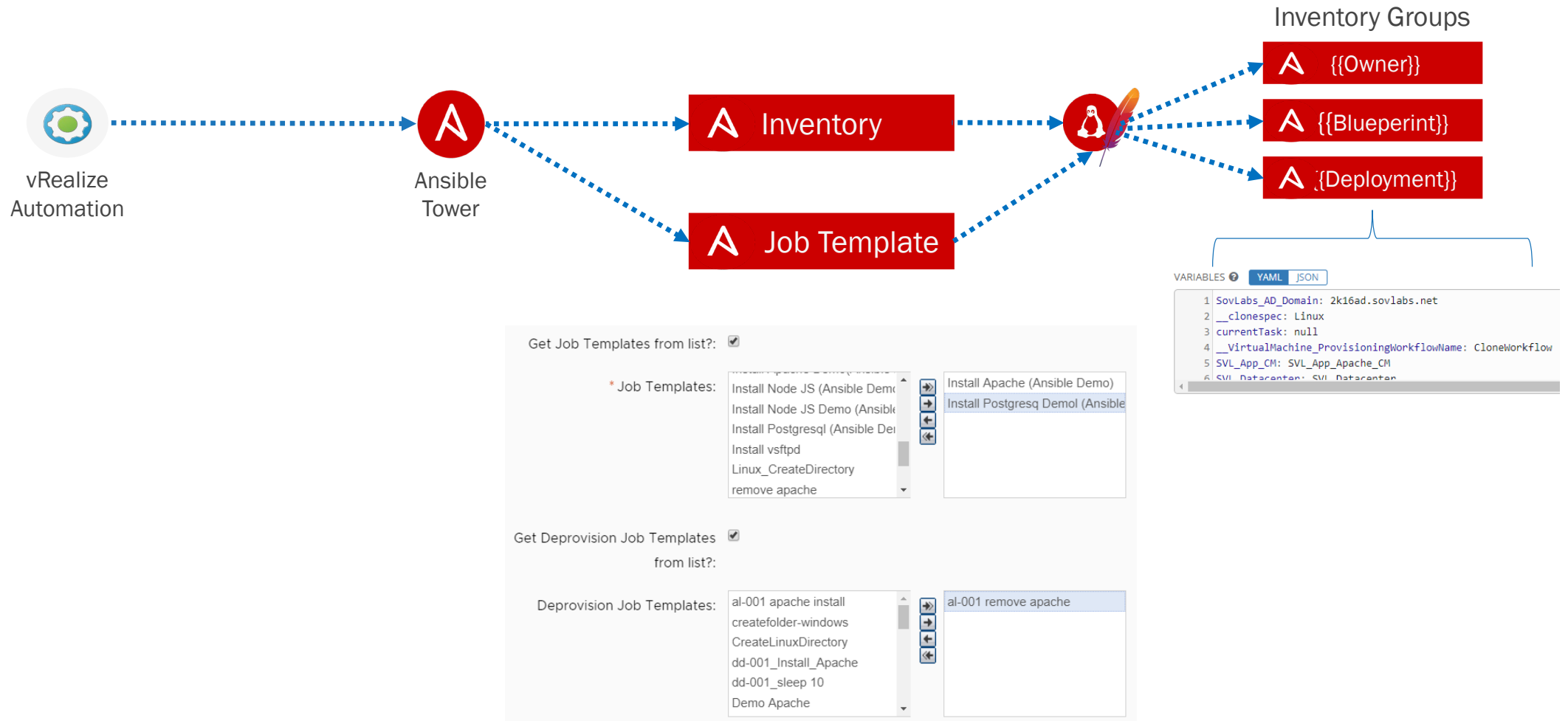
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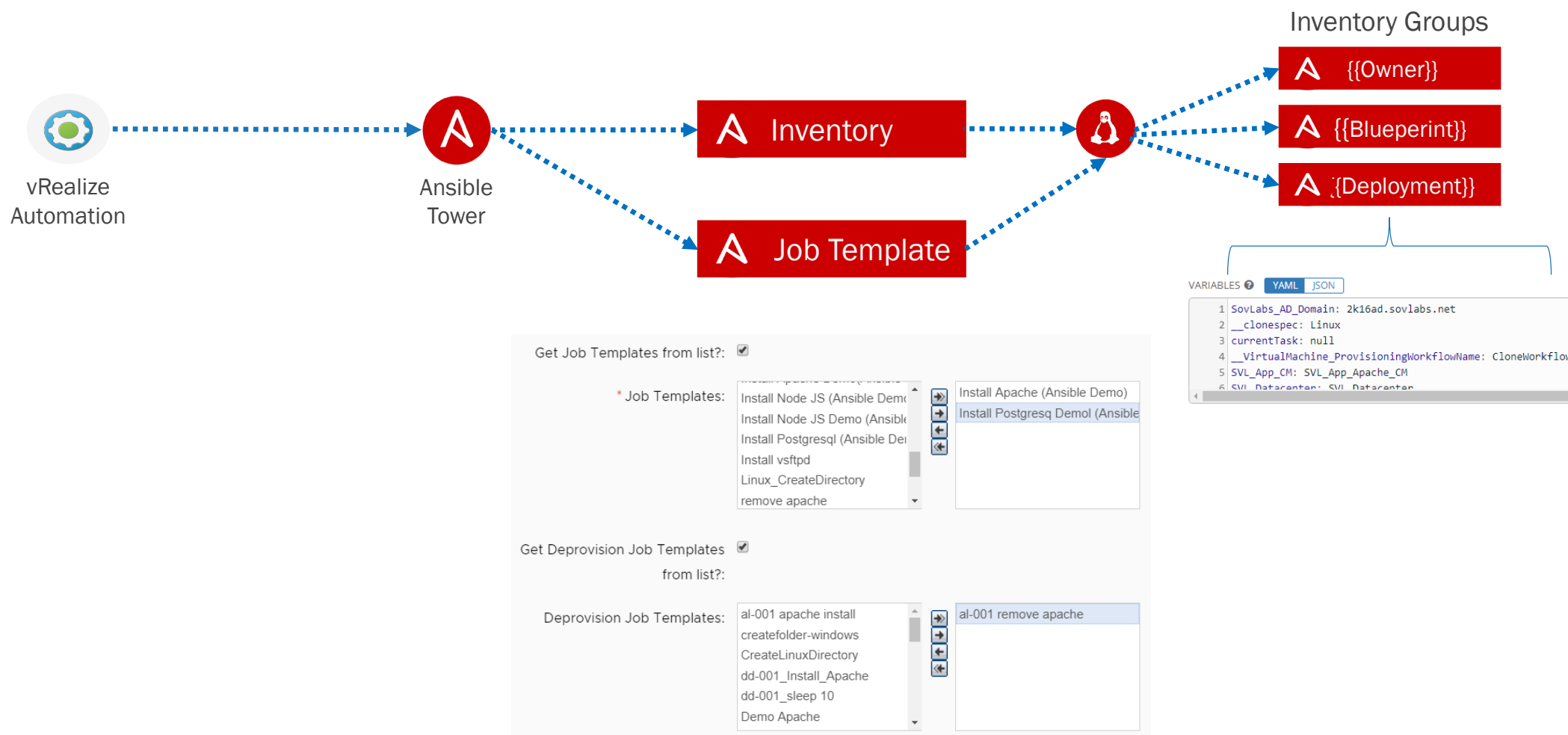
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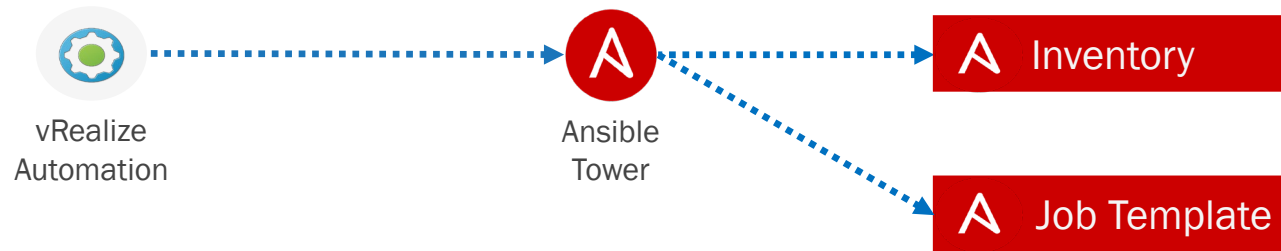
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SovLabs Ansible Tower Module

Ansible Tower Integration with **Static** Inventory & Job Template Execution



SovLabs Ansible Tower Module

Ansible Tower Integration with **Dynamic** Inventory & Job Template Execution



vRealize
Automation



Ansible
Tower

A Inventory

SovLabs Ansible Tower Module

Ansible Tower Integration with **Dynamic** Inventory & Job Template Execution



Filters

vRA Business Groups:

- ☒ Engineering
- ☐ Pre-Sales Demo
- ☐ demo-001

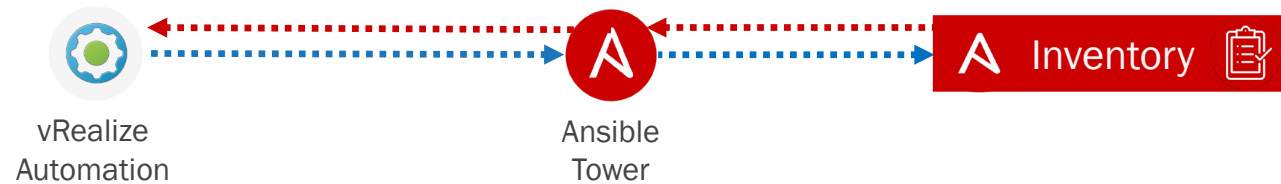
*Leave blank to filter by all vRA Business Groups

Property filters: [+ New](#) [✎ Edit](#) | [✖ Delete](#)

Key	Value
Environment	Production

SovLabs Ansible Tower Module

Ansible Tower Integration with **Dynamic** Inventory & Job Template Execution



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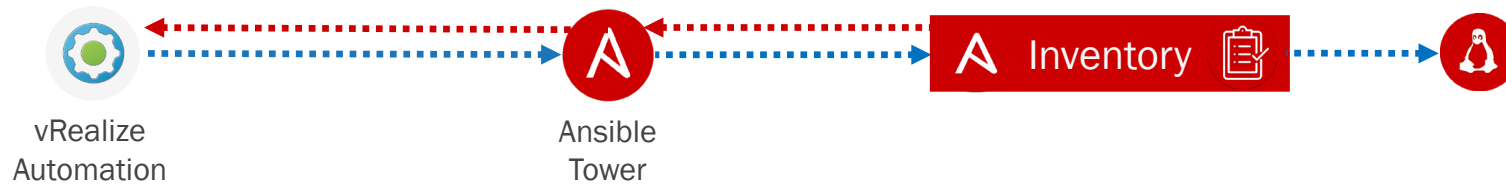
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Environment	Production

SovLabs Ansible Tower Module

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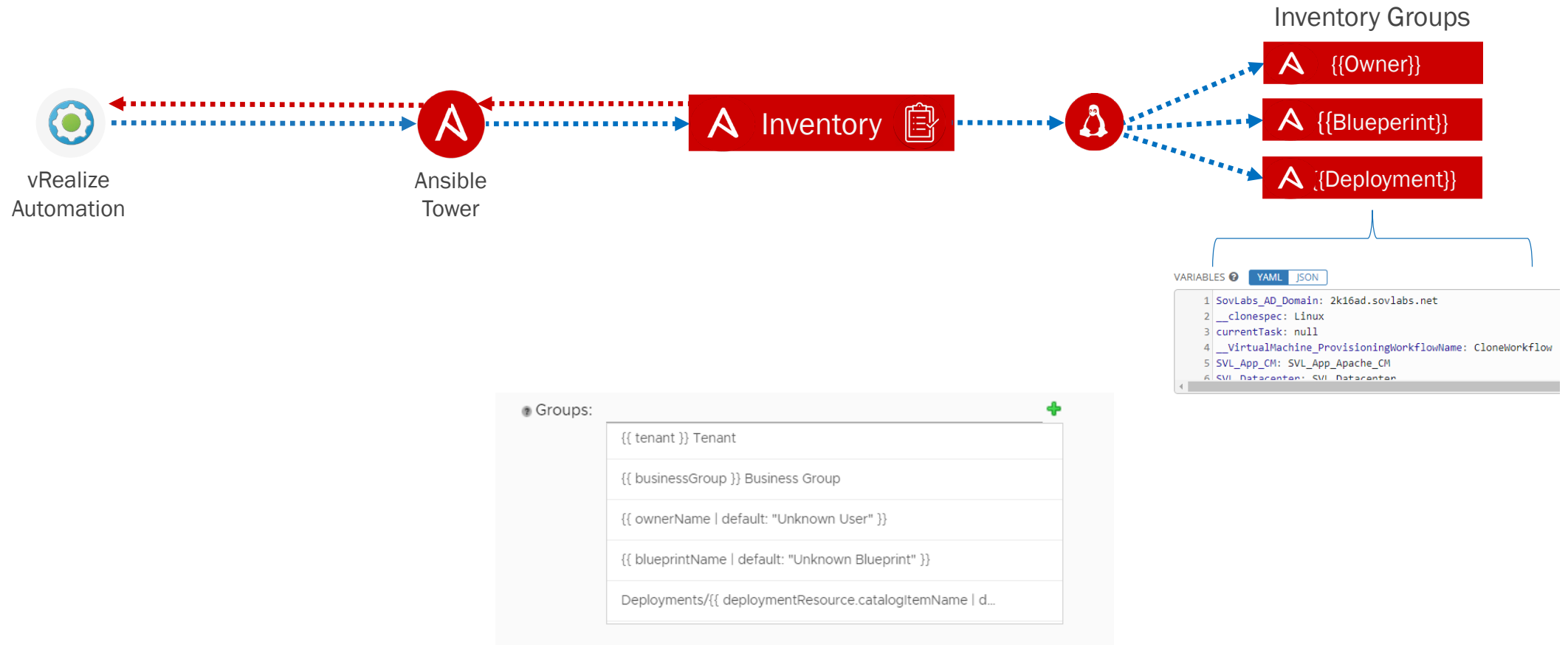
*Leave blank to filter by all vRA Business Groups

Property filters: [+ New](#) [✎ Edit](#) | [✖ Delete](#)

Key	Value
Environment	Production

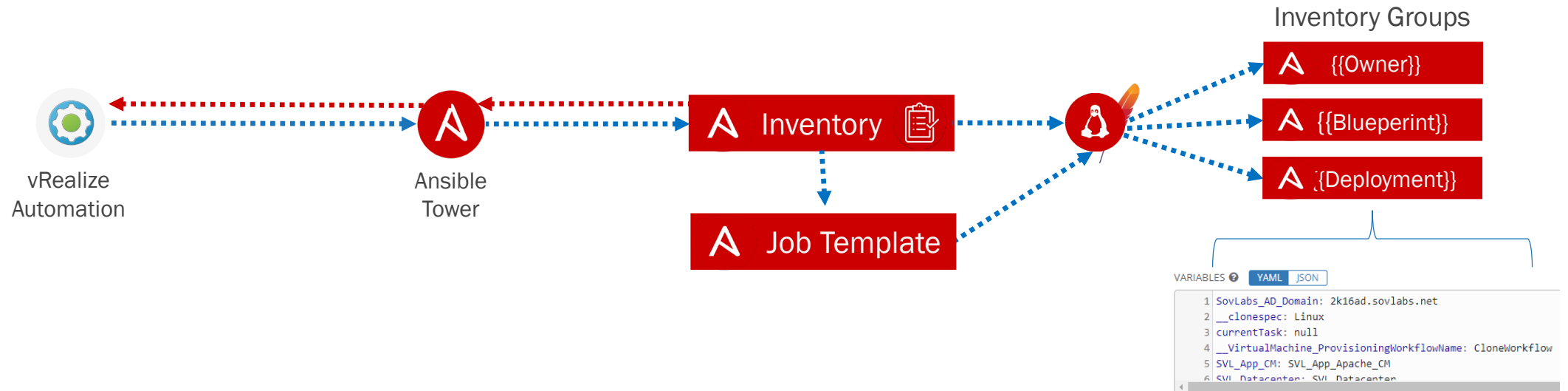
SovLabs Ansible Tower Module

Ansible Tower Integration with **Dynamic** Inventory & Job Template Execution



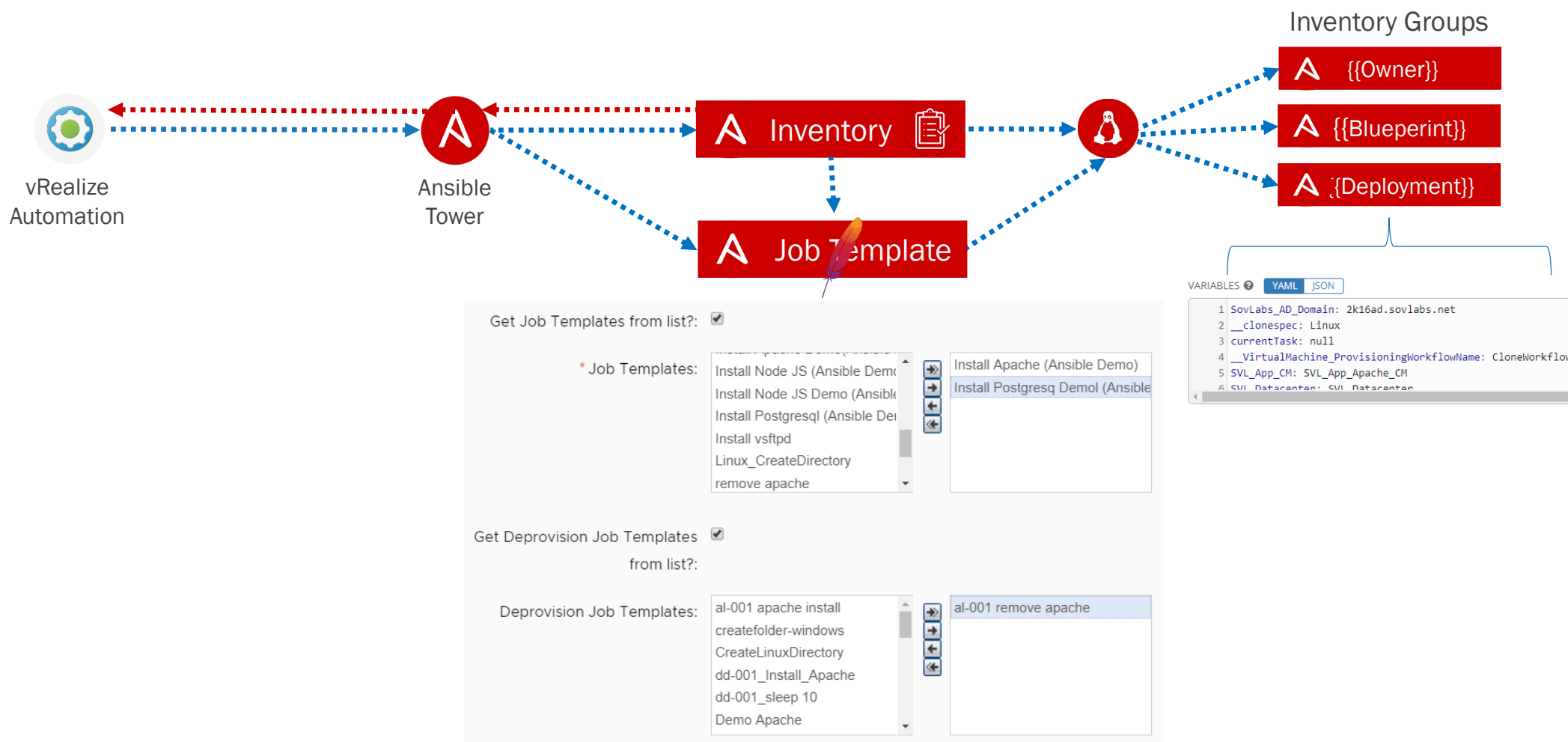
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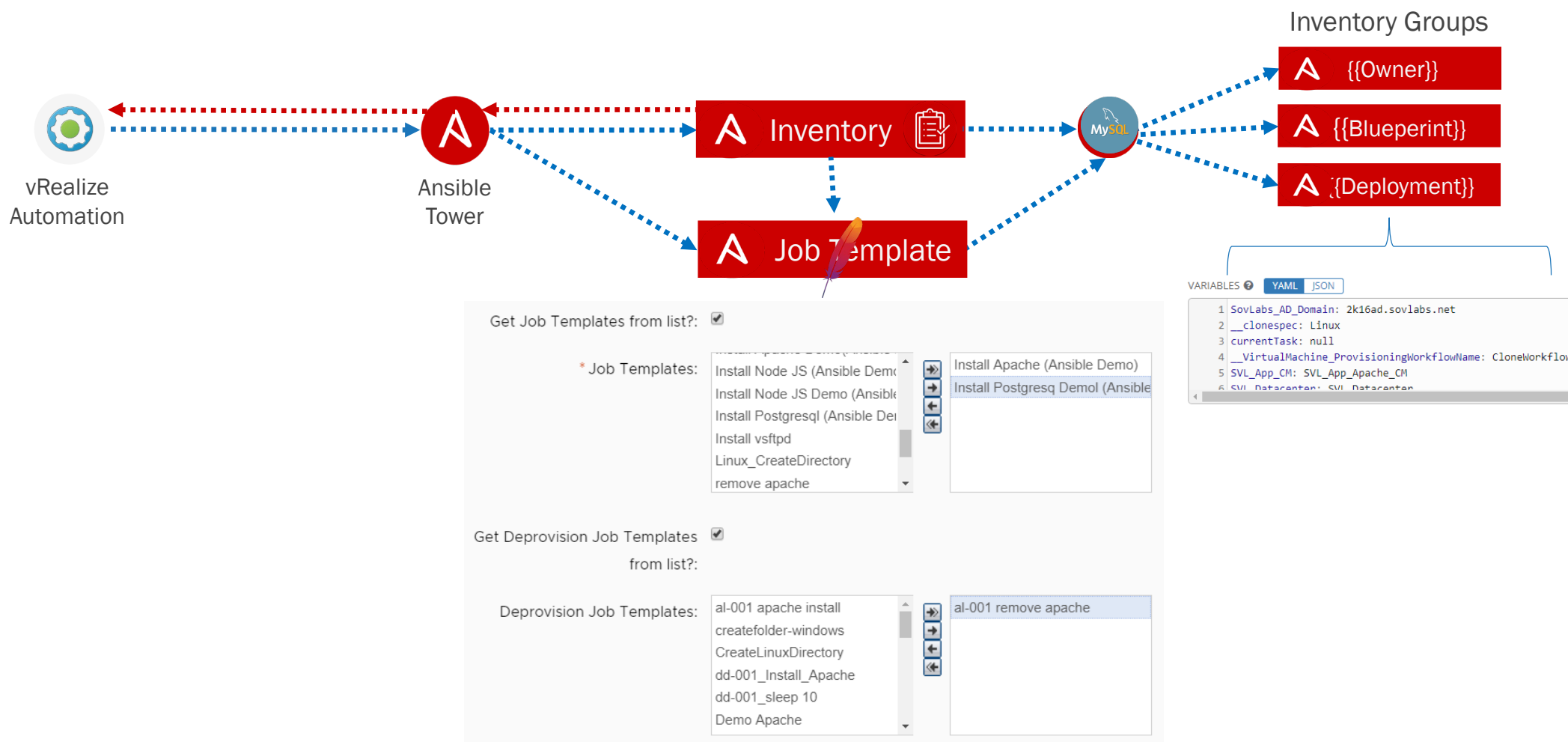
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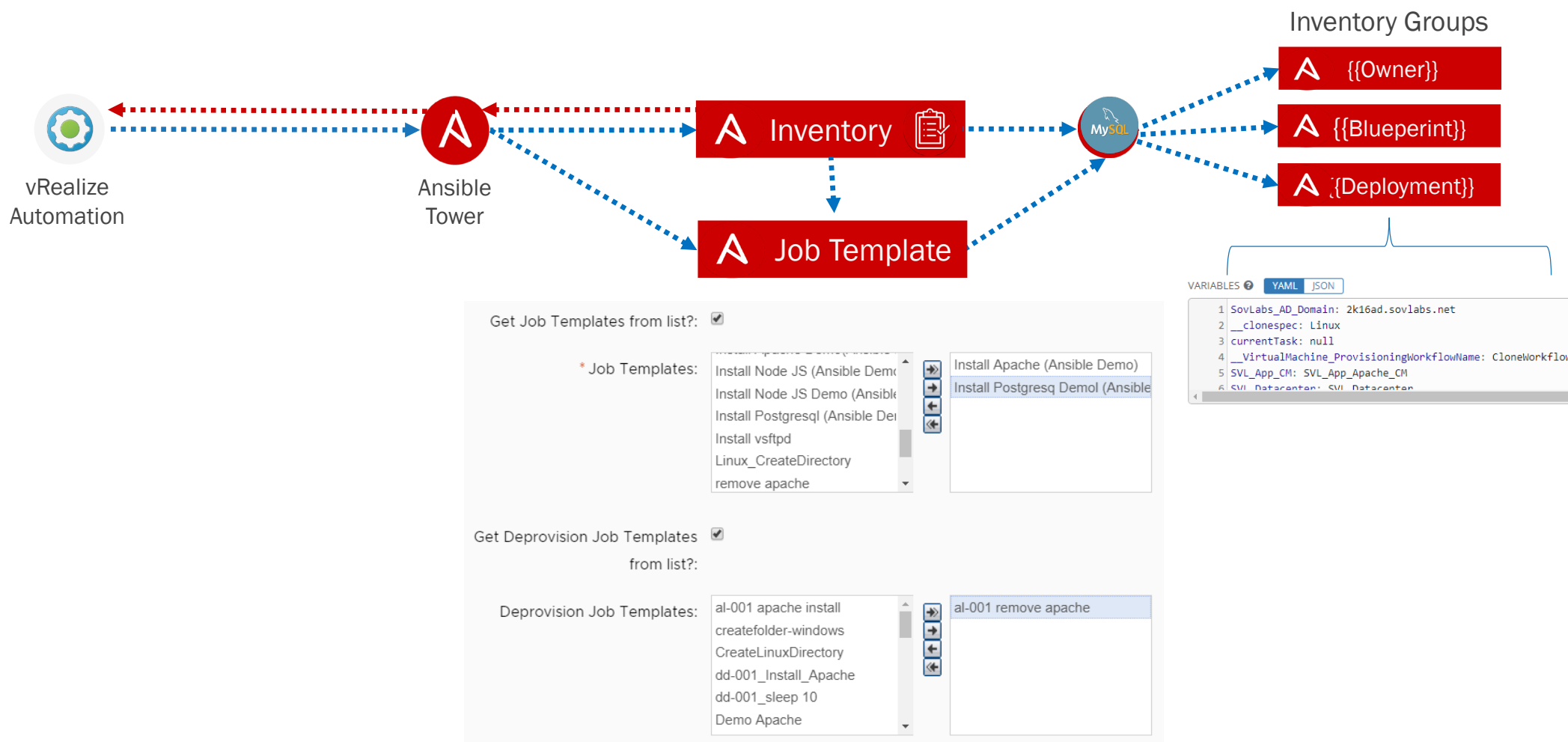
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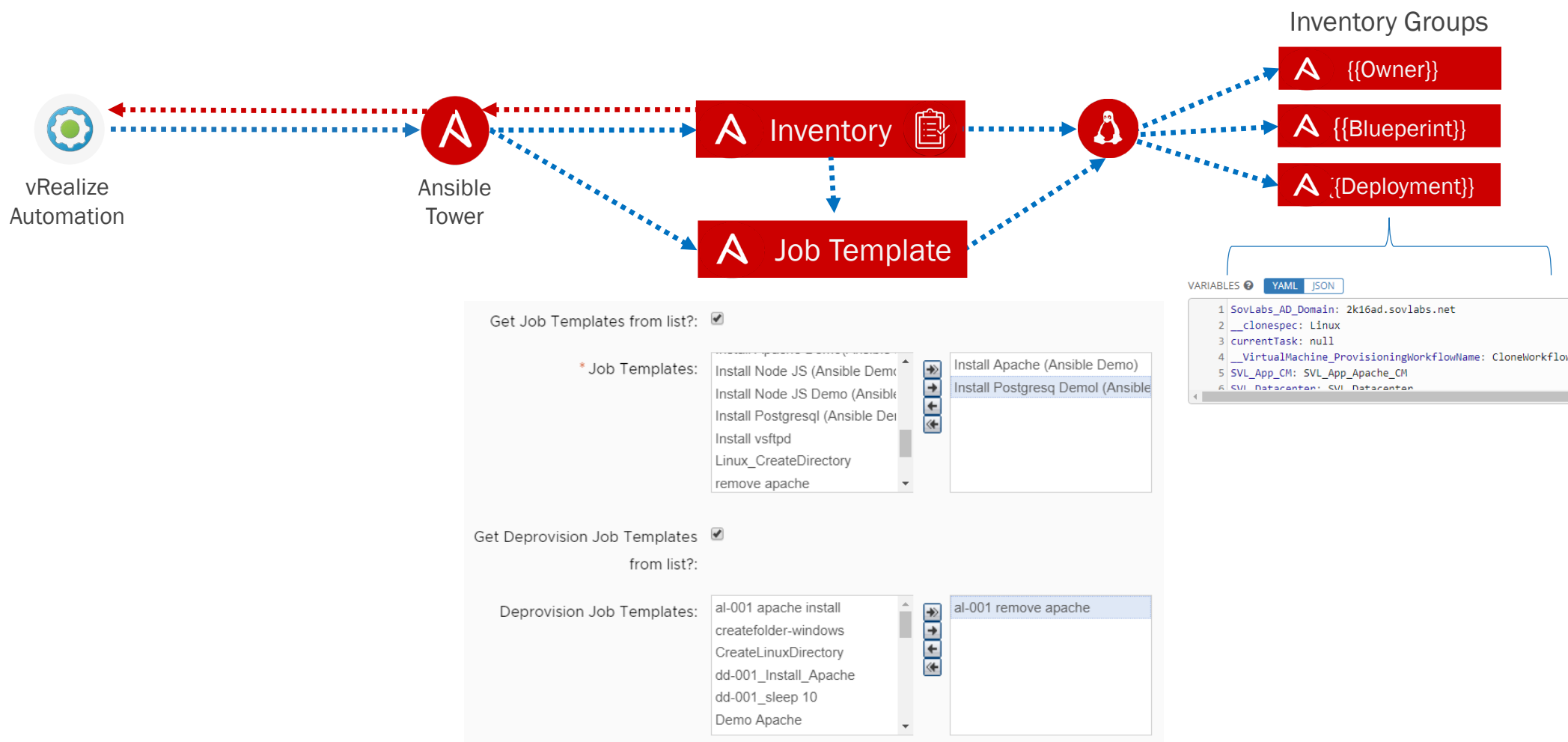
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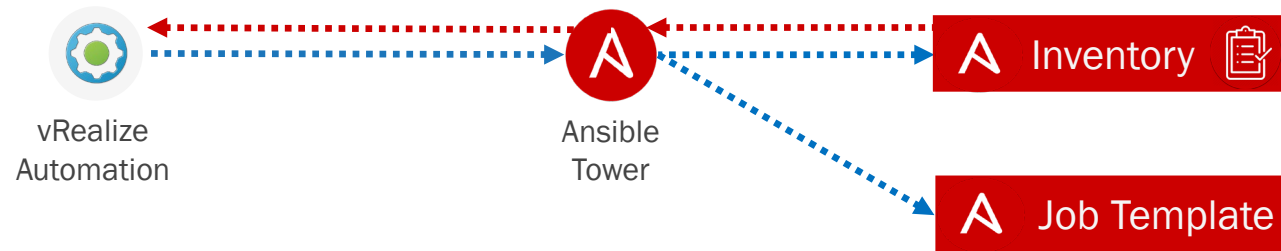
SovLabs Ansible Tower Module

Ansible Tower Integration with **Dynamic** Inventory & Job Template Execution

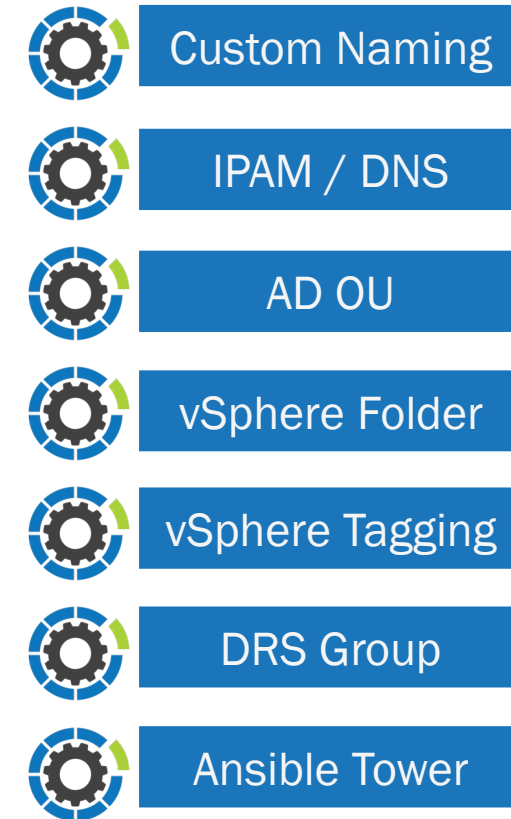
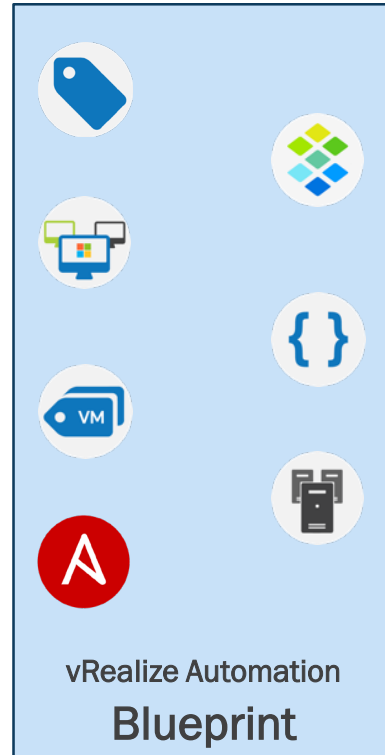
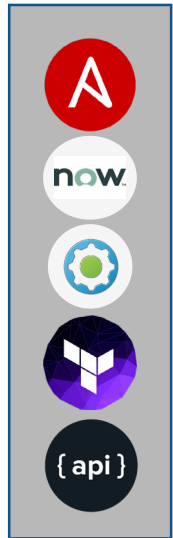


SovLabs Ansible Tower Module

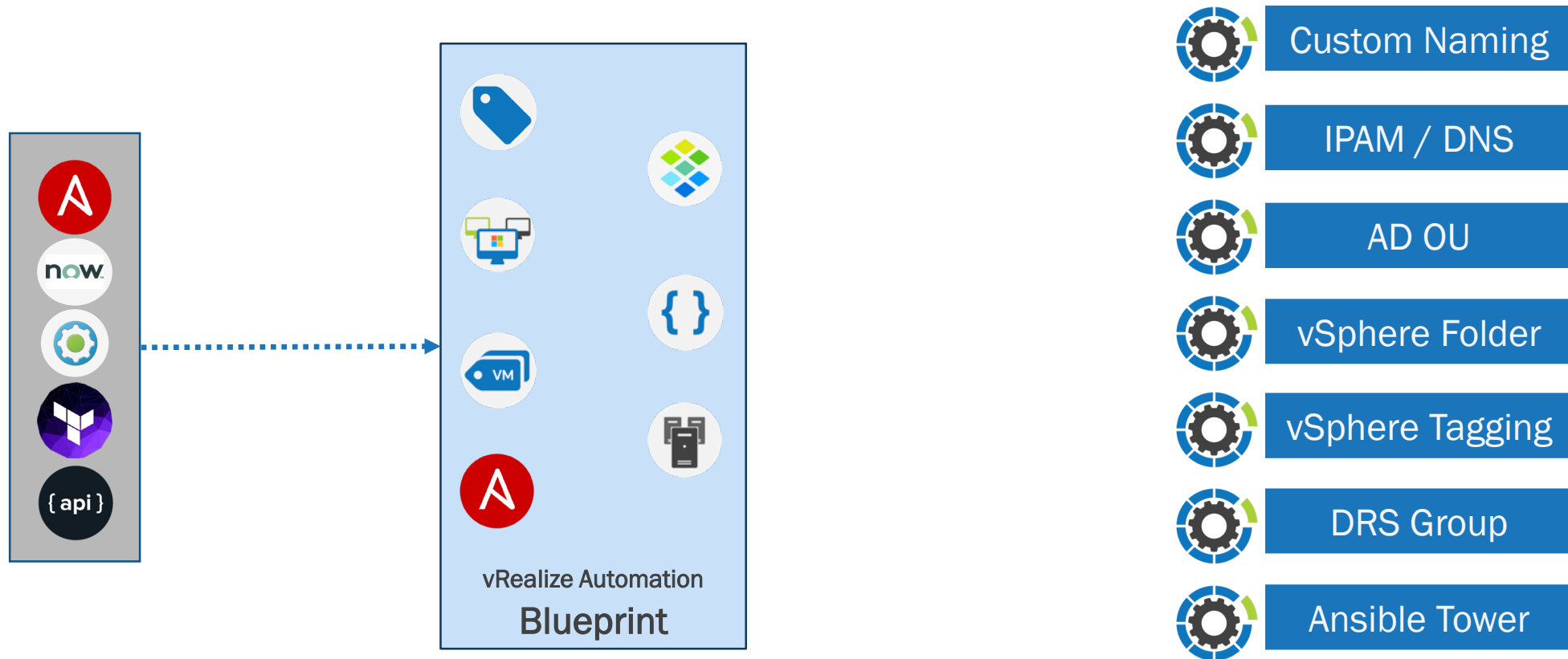
Ansible Tower Integration with **Dynamic** Inventory & Job Template Execution



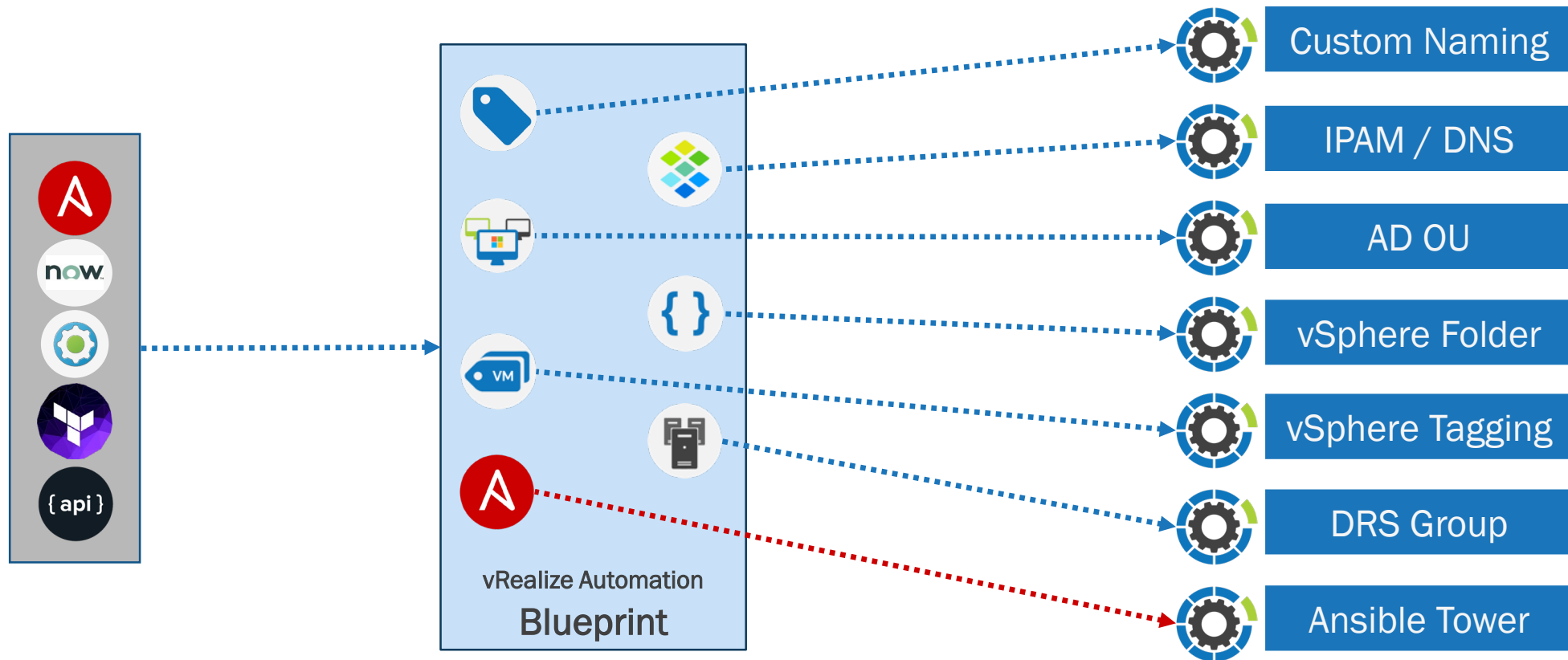
vRealize Automation CM Framework Approach



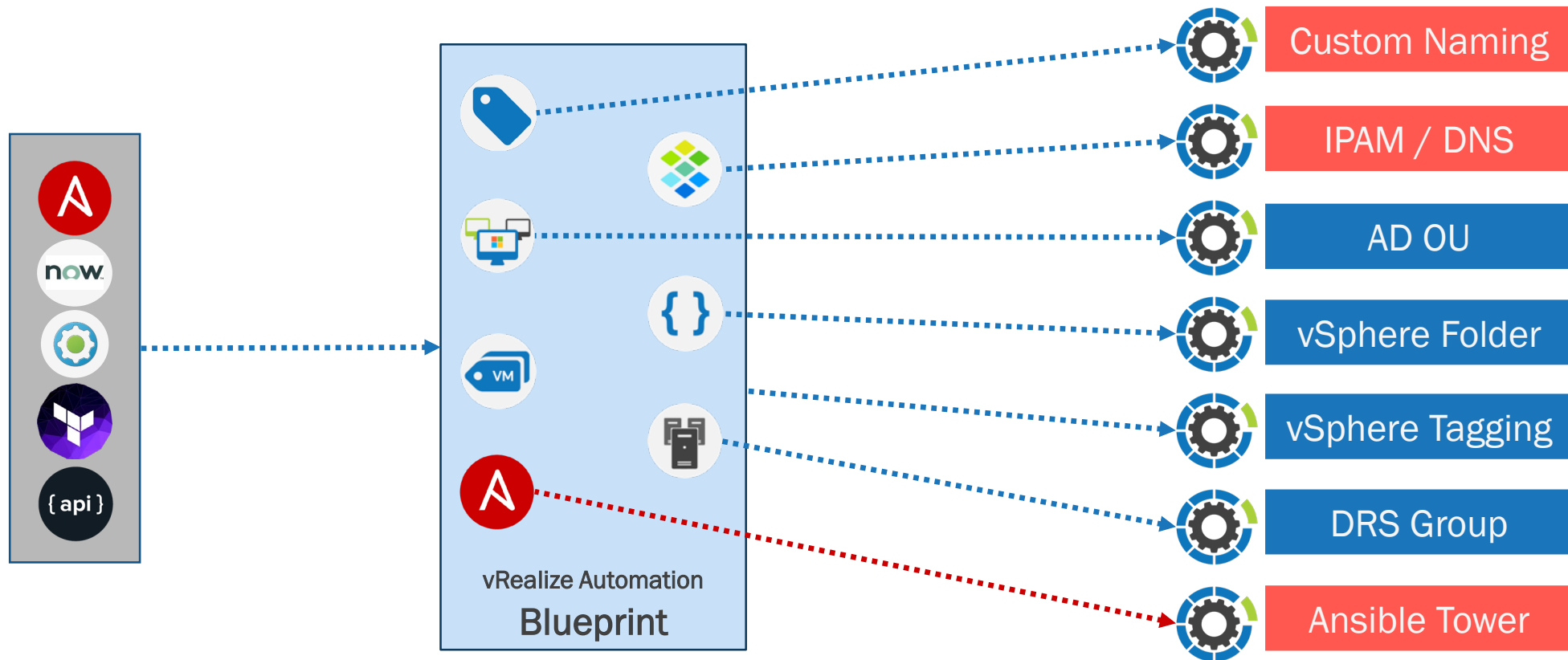
vRealize Automation CM Framework Approach



vRealize Automation CM Framework Approach



vRealize Automation CM Framework Approach

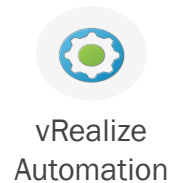


This approach is achievable with both SovLabs Ansible Tower Modules

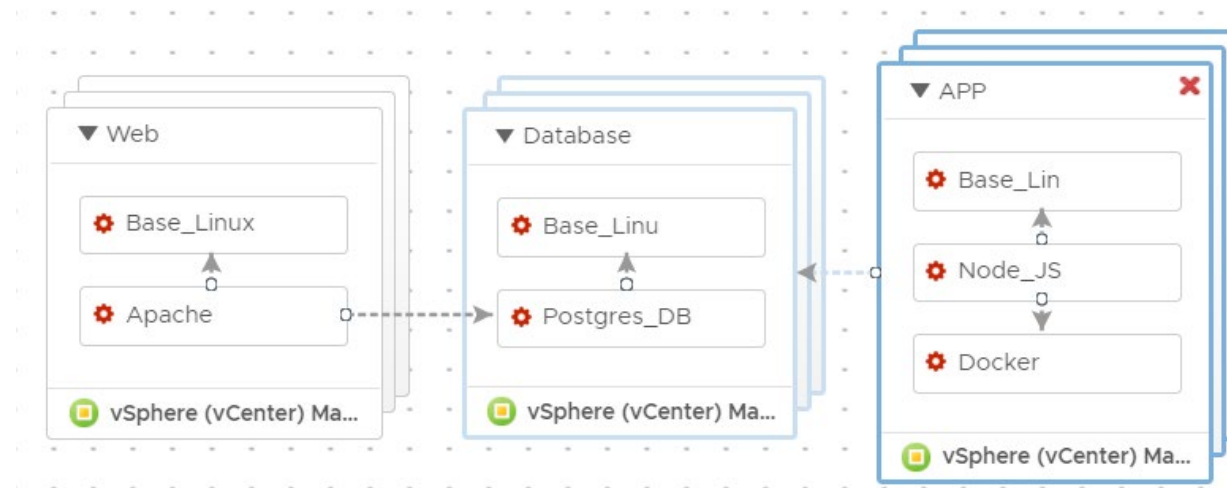
**vRealize Automation Enterprise required for CM Framework*

SovLabs Ansible Tower Plug-in for vRealize Automation CM Framework

Ansible Tower CM Integration with **Dynamic** Inventory & Job Template Execution



 Inventory



SovLabs Ansible Tower Plug-in for vRealize Automation CM Framework

Ansible Tower CM Integration with **Dynamic** Inventory & Job Template Execution



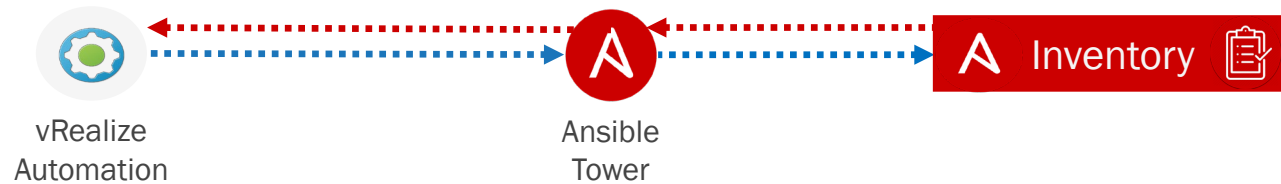
Filter and Paging

Property Filters:

+ New ✎ Edit >> ▼	
Key	Value
Environment	Production

SovLabs Ansible Tower Plug-in for vRealize Automation CM Framework

Ansible Tower CM Integration with **Dynamic** Inventory & Job Template Execution



Filter and Paging

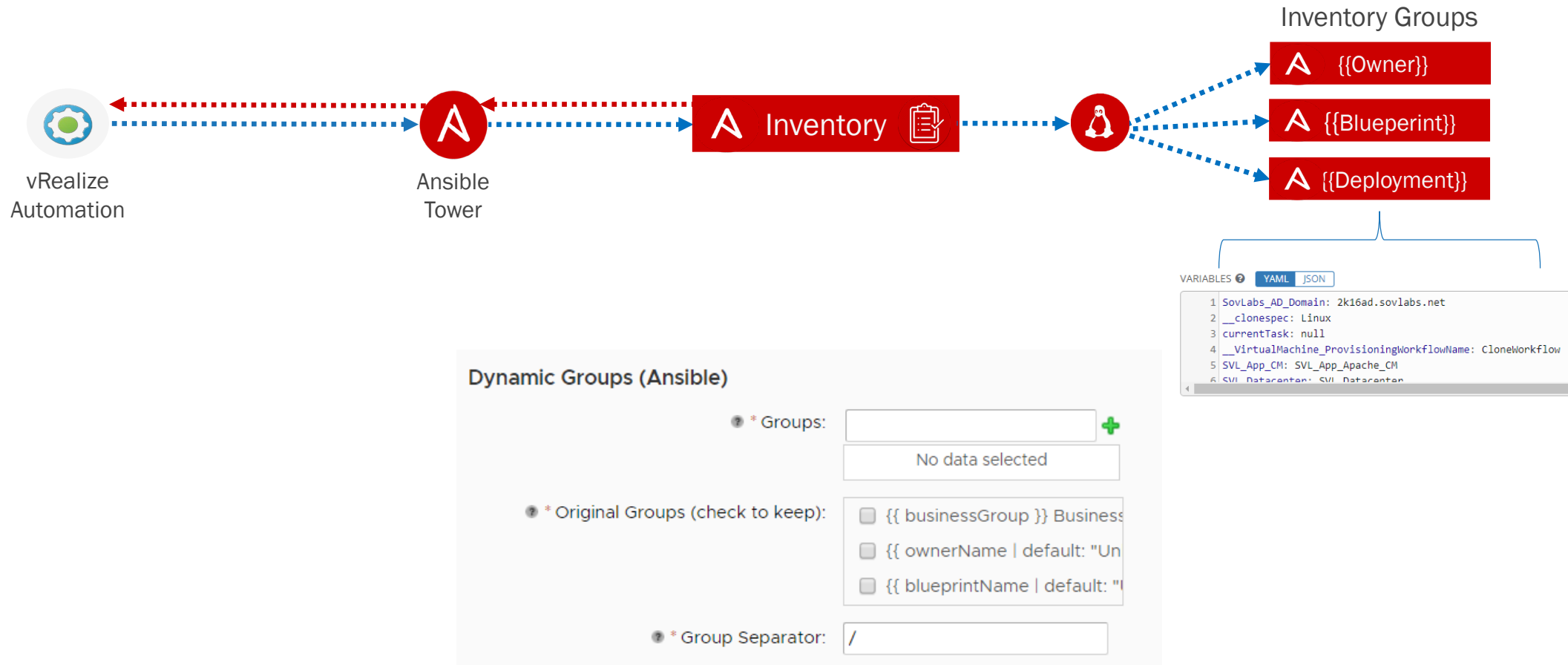
Property Filters:

[+ New](#) [Edit](#) | [»](#) ▼

Key	Value
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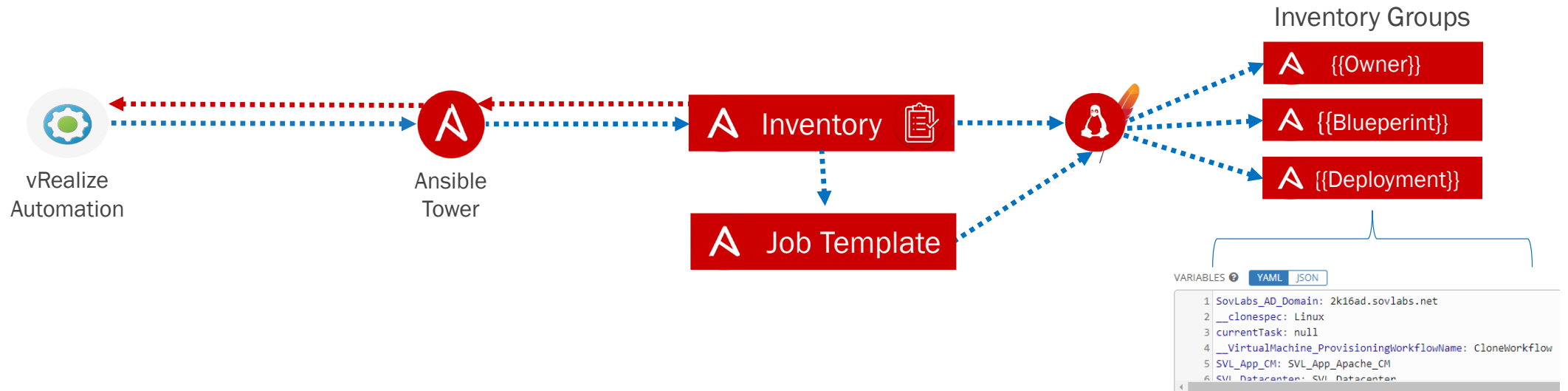
SovLabs Ansible Tower Plug-in for vRealize Automation CM Framework

Ansible Tower CM Integration with **Dynamic** Inventory & Job Template Execution



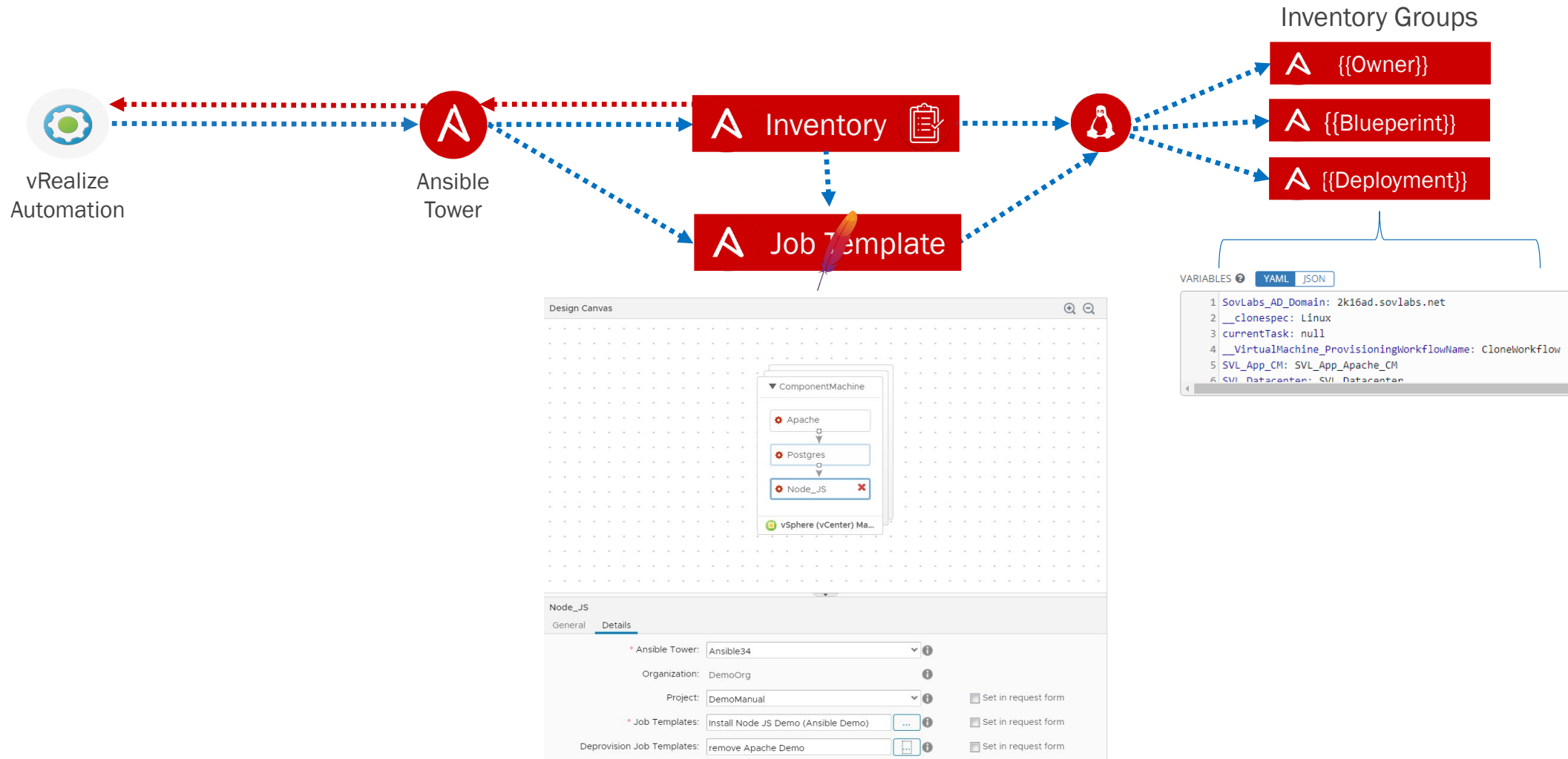
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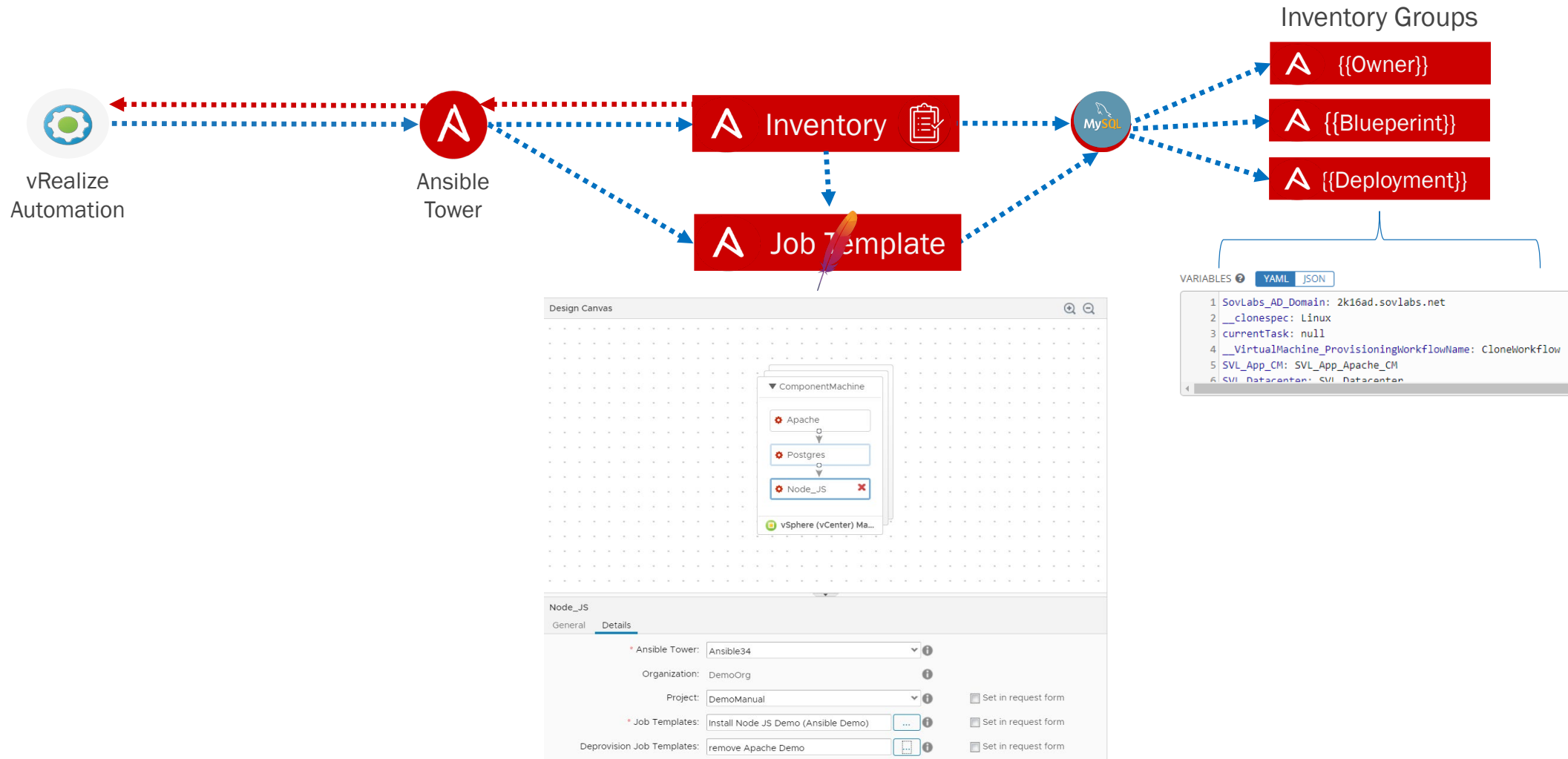
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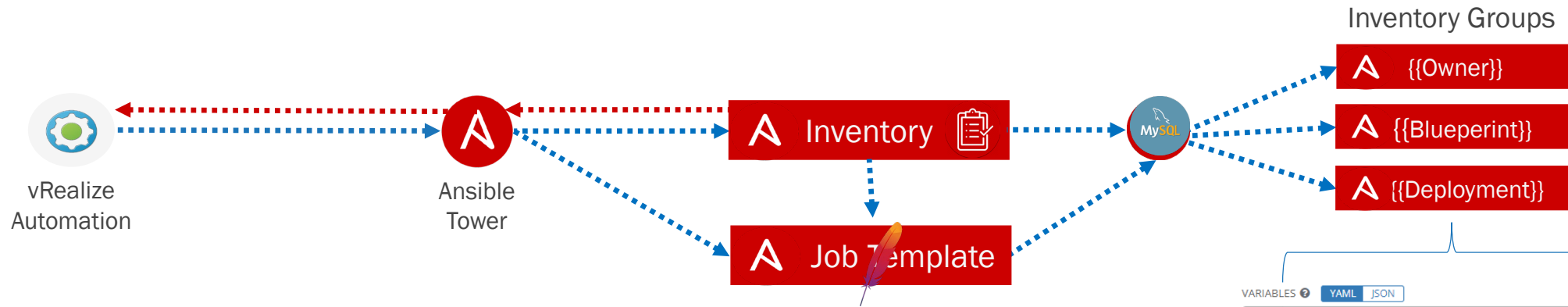
SovLabs Ansible Tower Plug-in for vRealize Automation CM Framework

Ansible Tower CM Integration with **Dynamic** Inventory & Job Template Execution



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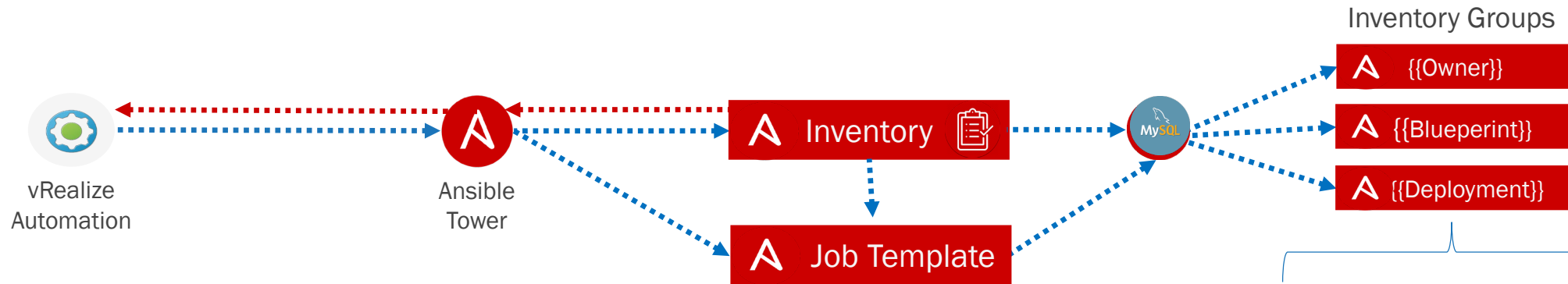
VARIABLES ? YAML JSON

```
1 SovLabs_AD_Domain: 2k16ad.sovlabs.net
2 __clonespec: Linux
3 currentTask: null
4 __VirtualMachine_ProvisioningWorkflowName: CloneWorkflow
5 SVL_App_CM: SVL_App_Apache_CM
6 SVL_Datacenter: SVL_Datacenter
```

Events Request Inputs					
#943 - Provision 4a - Apache CM In Progress Requested by: Sid Smith Requested on: May 21, 2019 6:17 PM					
Tasks	Component	Status	Depends On	Start Time	Completion Time
Submitted	Deployment	Successful		05/21/2019 6:17:39 PM	05/21/2019 6:17:39 PM
Pre-approval	Deployment	Approved		05/21/2019 6:17:39 PM	05/21/2019 6:17:41 PM
▼ Provisioning	Deployment	In Progress		05/21/2019 6:17:41 PM	
Allocate	ComponentMachine: vSphere (vCenter) !	Successful		05/21/2019 6:17:46 PM	05/21/2019 6:17:55 PM
Provision	ComponentMachine: vSphere (vCenter) !	In Progress	ComponentMachine	05/21/2019 6:17:58 PM	
Provision	Apache: Ansible	Submitted	ComponentMachine[0]; ComponentMachin		
Post-approval	Deployment				
Completed	Deployment				

SovLabs Ansible Tower Plug-in for vRealize Automation CM Framework

Ansible Tower CM Integration with **Dynamic** Inventory & Job Template Execution



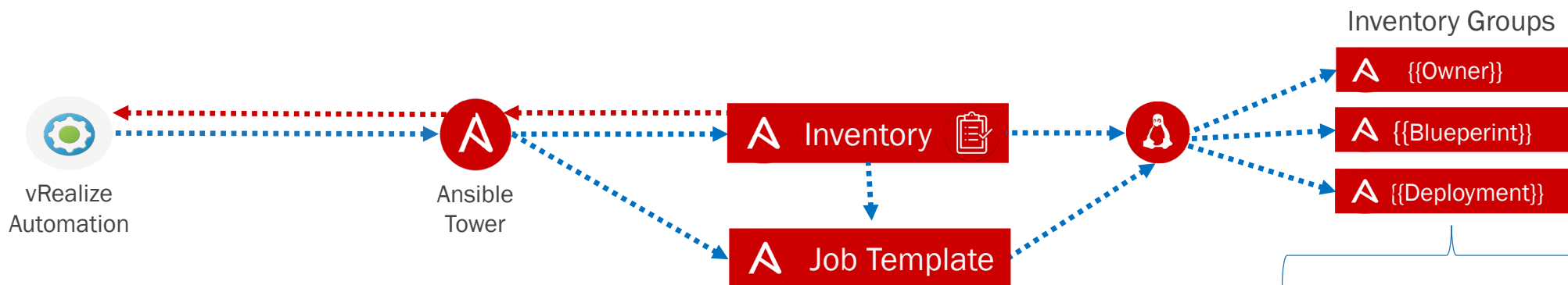
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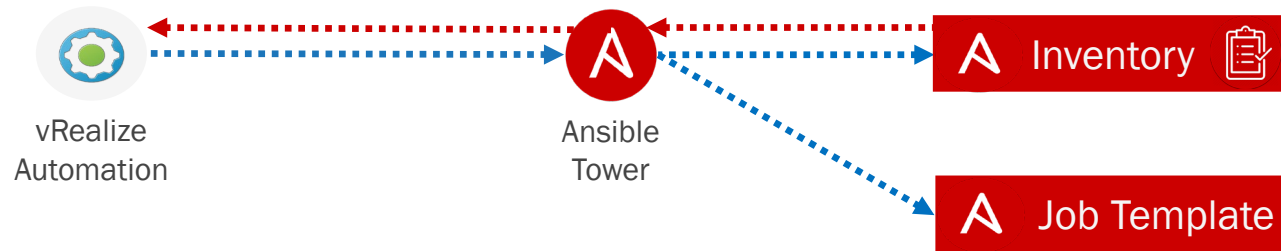
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Provision	Apache: Ansible	Submitted	ComponentMachine[0]; ComponentMachin		
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Completed	Deployment				

SovLabs Ansible Tower Plug-in for vRealize Automation CM Framework

Ansible Tower CM Integration with **Dynamic** Inventory & Job Template Execution



SovLabs Ansible Tower Integration Comparison

	Ansible Tower Module		vRealize Automation
	Static	Dynamic	CM Framework Plug-in
Support for Static Inventory	✓	✗	✗
Support for Dynamic Inventory	✗	✓	✓
Assign multiple Job Templates During Provisioning	✓	✓	✓
Assign multiple Job Templates During De-Provision	✓	✓	✓
Drive Dynamically from vRA Custom Properties	✓	✓	✗
Dynamically assign to multiple Groups	✓	✓	✓
Provide Access to vRA Property Payload	✓	✓	✓
Immediate removal from Ansible inventory	✓	✓	✓
Drag and Drop on vRA Design Canvas	✗	✗	✓
Ideal for Brown Field Environment	✗	✓	✓
Ideal for Green Field Environments	✓	✓	✓
Filter VM's by Business Group or Properties	✗	✓	✓
Ability to test deployments without rolling back VM	✓	✓	✗
Requires vRealize Automation Enterprise	✗	✗	✓

**All included as part of SovLabs Ansible Tower License*

A top-down view of a workspace on a white surface. On the left is a silver laptop with a black keyboard. Above the laptop is a small green plant in a dark pot. To the right of the laptop is a pair of grey-rimmed glasses. Below the glasses is a white cup filled with dark coffee. At the bottom left is a black pen.

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