vmware **explore**

Automating with VMware Aria Automation Orchestrator

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- This overview of new technology represents no commitment from VMware to deliver these features in any generally available product.
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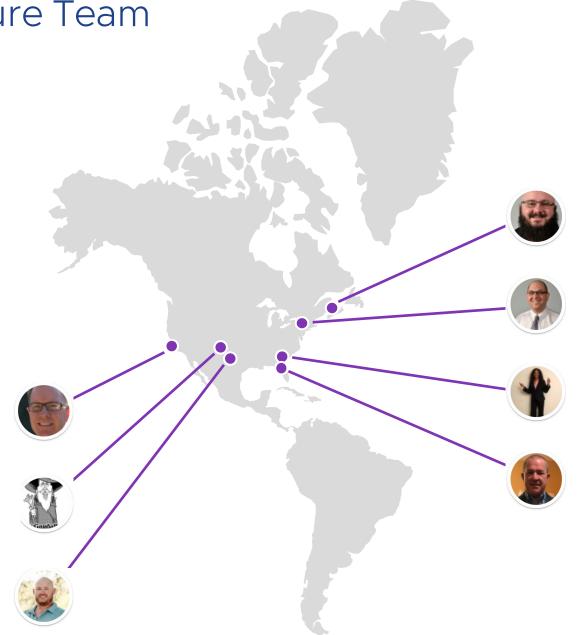
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Agenda

- What is Orchestrator?
- How to download and license Orchestrator?
- Orchestrator Plug-ins
- Workflow schemas and schema elements
- Inputs, Outputs, and Variables
- Binding
- Q & A



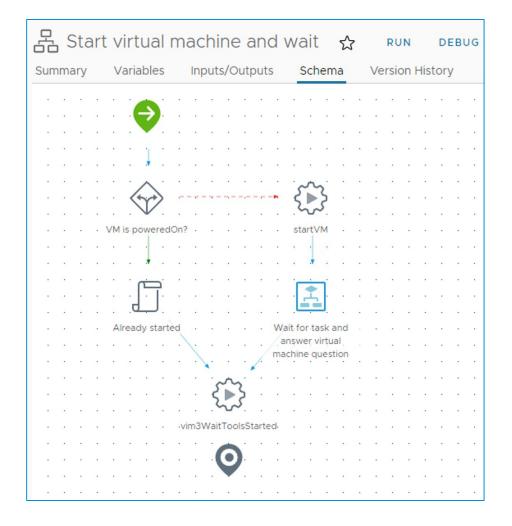
What is Orchestrator?



What is VMware Aria AutomationOrchestrator?

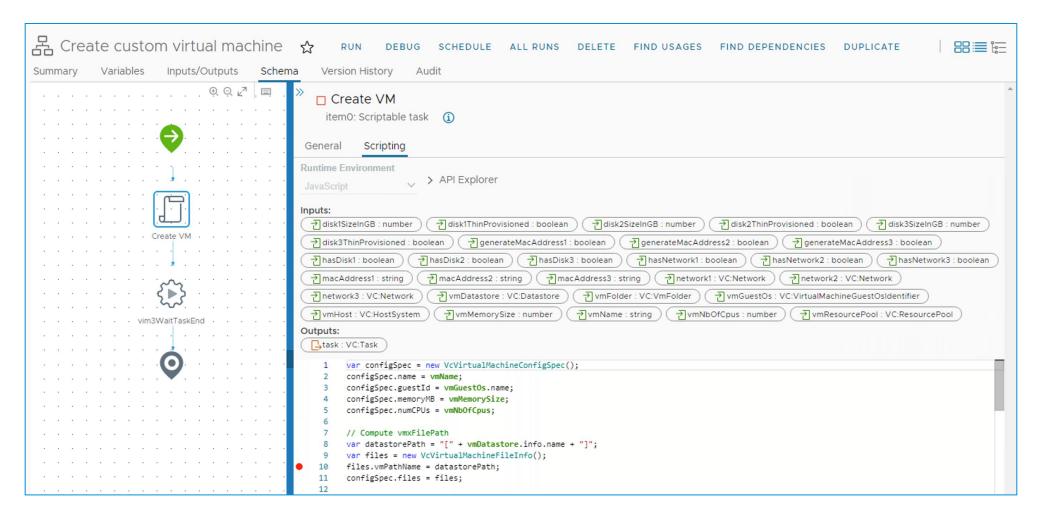
Orchestrator:

- Is an automation platform
- Is used to automate complex tasks and processes
- Accelerates development by providing a library of built-in workflows





Components of a Workflow

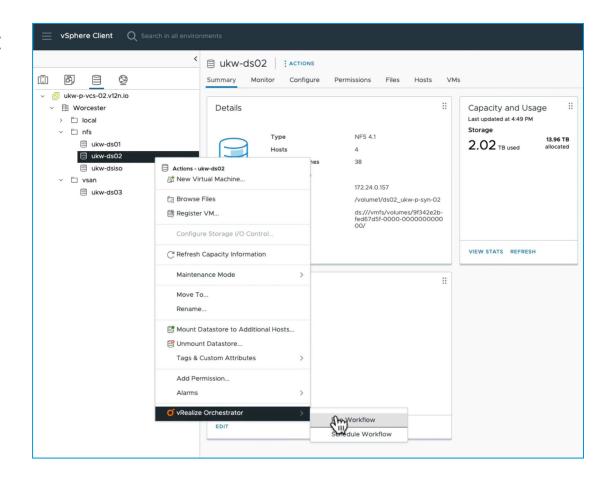




Invoking Orchestrator Workflows

Orchestrator workflows can be invoked from:

- vSphere Client
- VMware Aria Automation
 - Service Broker self-service catalog
 - Event Broker Service subscriptions
- Third-party applications
- REST clients



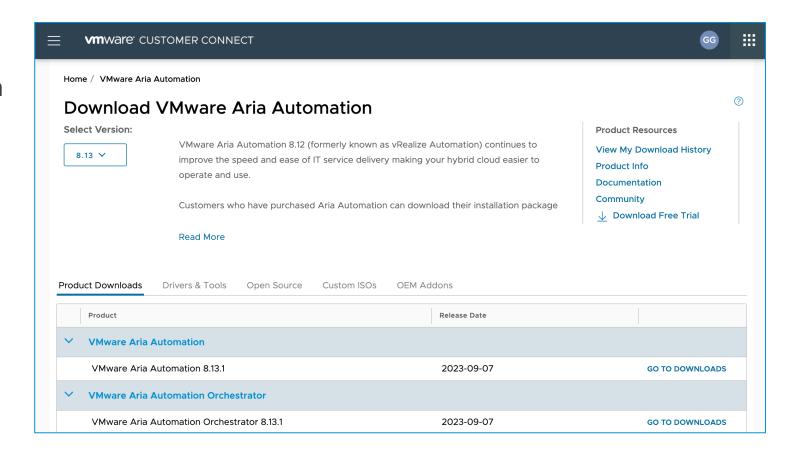


How to download and license Orchestrator



Downloading Orchestrator

Log into your account at customerconnect.vmware.com





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Licensing Orchestrator

You license Orchestrator using either:

- VMware Aria Automation license
- VMware vSphere license

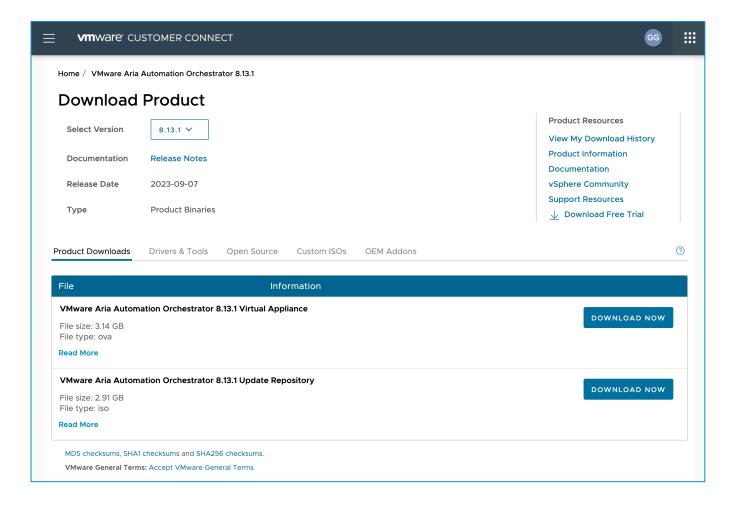






A Few Miscellaneous Notes

- VMware Aria Suite Easy Installer makes installation even easier.
- There is an embedded Orchestrator server.
- There is a standalone
 Orchestrator server.



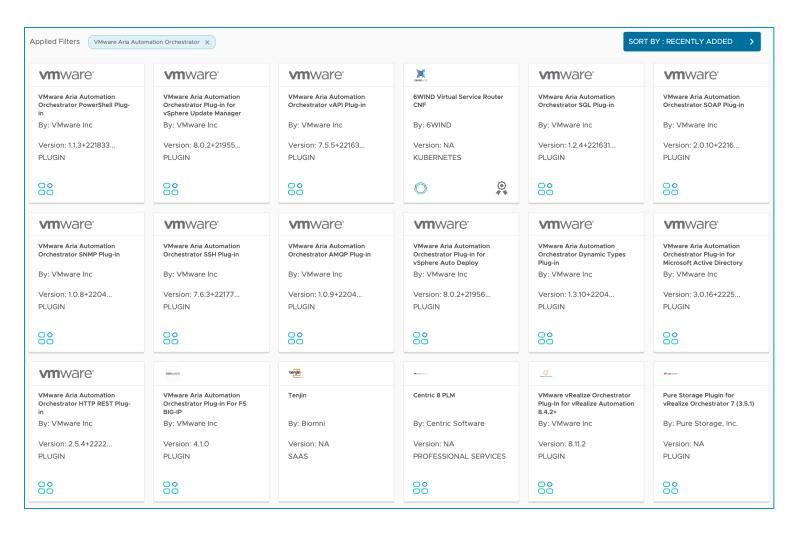


Orchestrator Plug-ins



Orchestrator Plug-ins

- Built into Orchestrator
- Downloadable from the
 VMware Marketplace
- Enhance Orchestrator's capabilities:
 - More system integrations
 - More workflows
 - More actions
 - More objects



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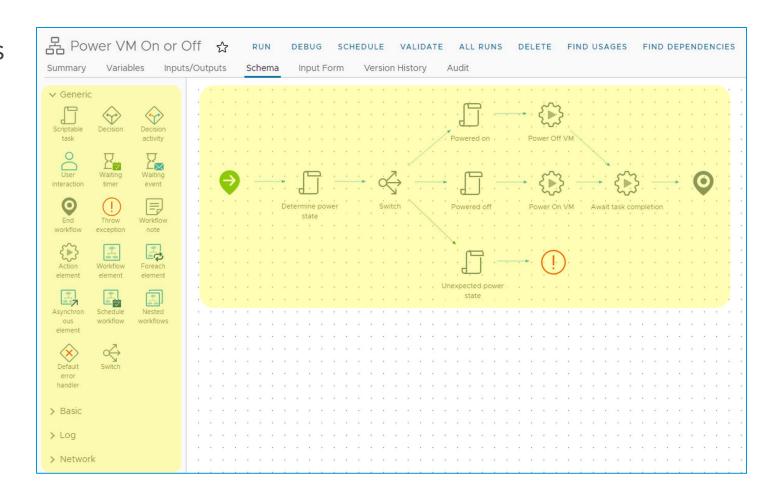
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Workflow schemas and schema elements



Workflow Schemas and Schema Elements

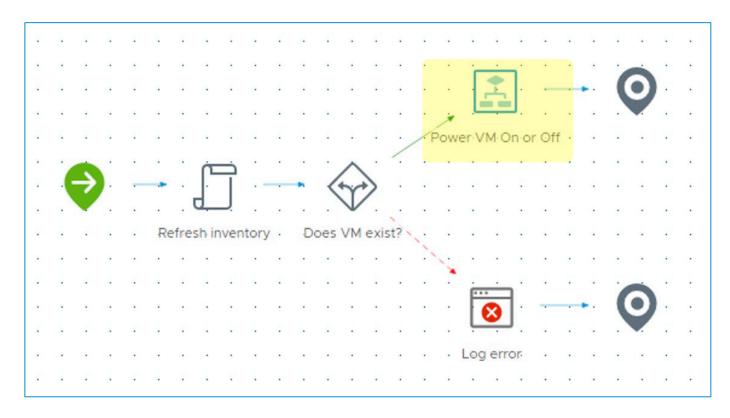
- The workflow schema defines what the workflow does.
- The workflow schema is built out of schema elements.
- Frequently used schema elements include:
 - Scriptable tasks
 - Actions
 - Decisions & Switches
 - Workflow elements





Encapsulation

- A workflow can call other workflows.
- This enables rapid workflow development.
- You don't have to re-implement functionality*.





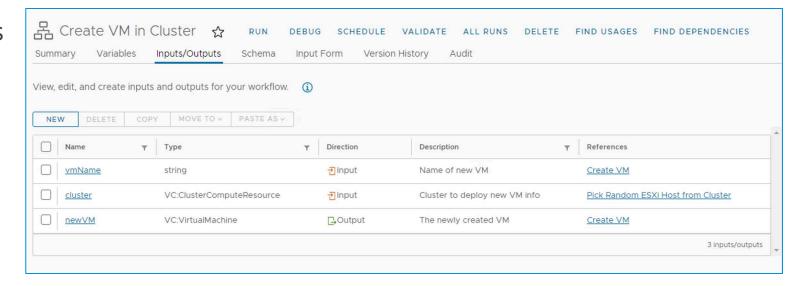
^{*} But you do need to learn "binding".

Inputs, Outputs, and Variables



Inputs and Outputs

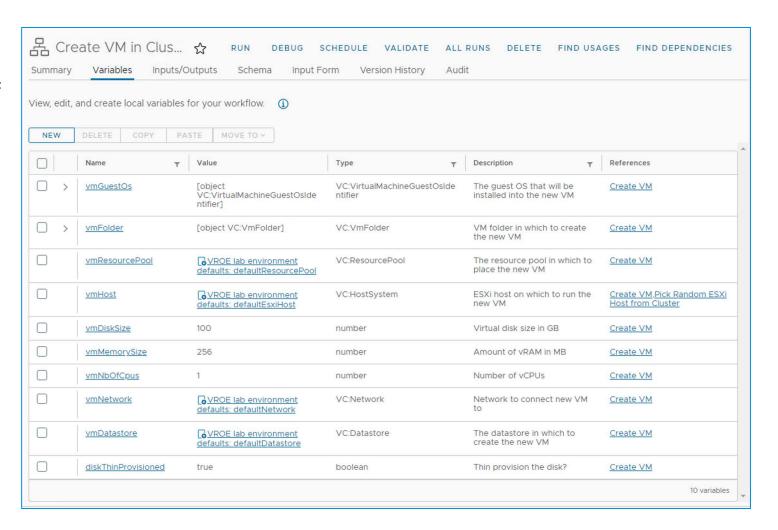
- You define your workflows inputs and outputs.
- Inputs feed info into your workflow.
- Outputs define what your workflow returns.



Variables

Inputs and outputs are used to pass information into and out of your workflow.

Variables* are used to pass information between schema elements within your workflow.



^{*} Variables were formerly called "attributes".



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Binding





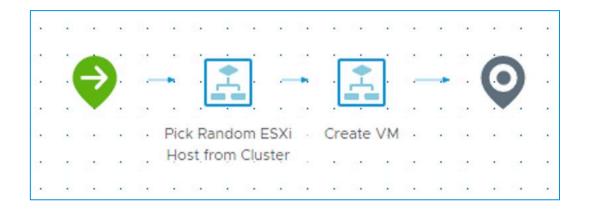
Binding controls where data is allowed to flow within a workflow.

Inputs, outputs, and variables have the potential to be seen by every schema element.

By default, no schema elements see any inputs, outputs, or variables.

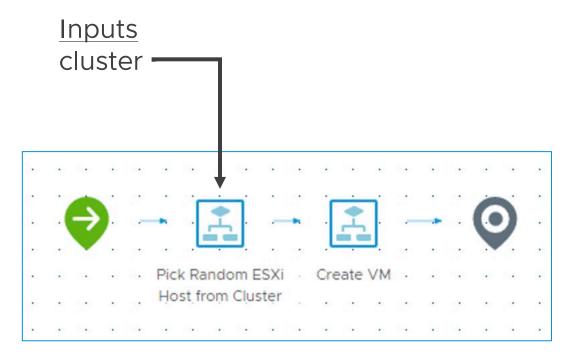
Consider this Workflow

Create VM in Cluster



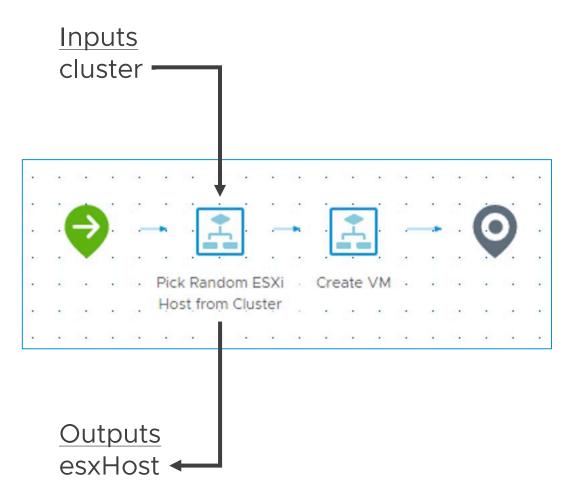


Data Flow (1)



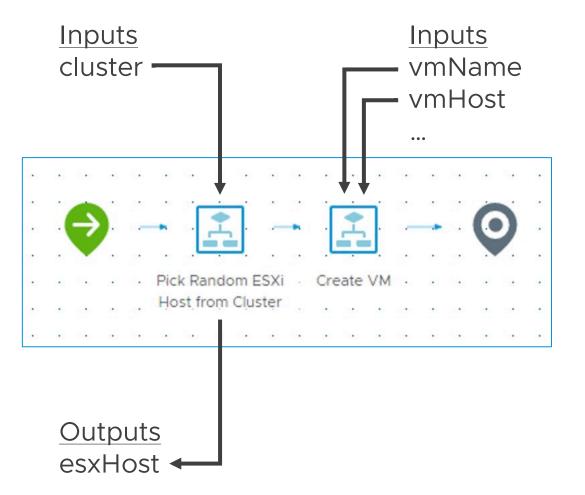


Data Flow (2)



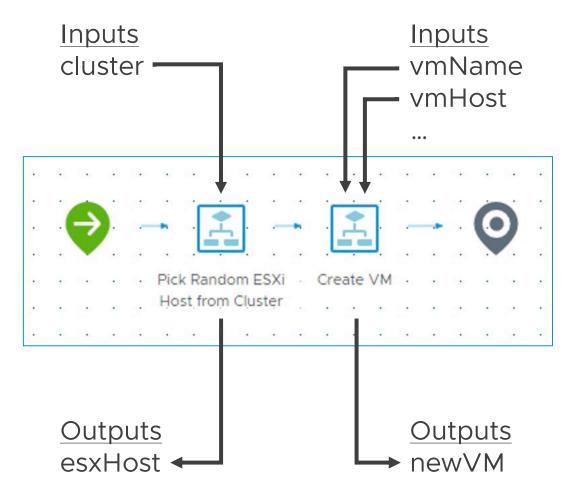


Data Flow (3)



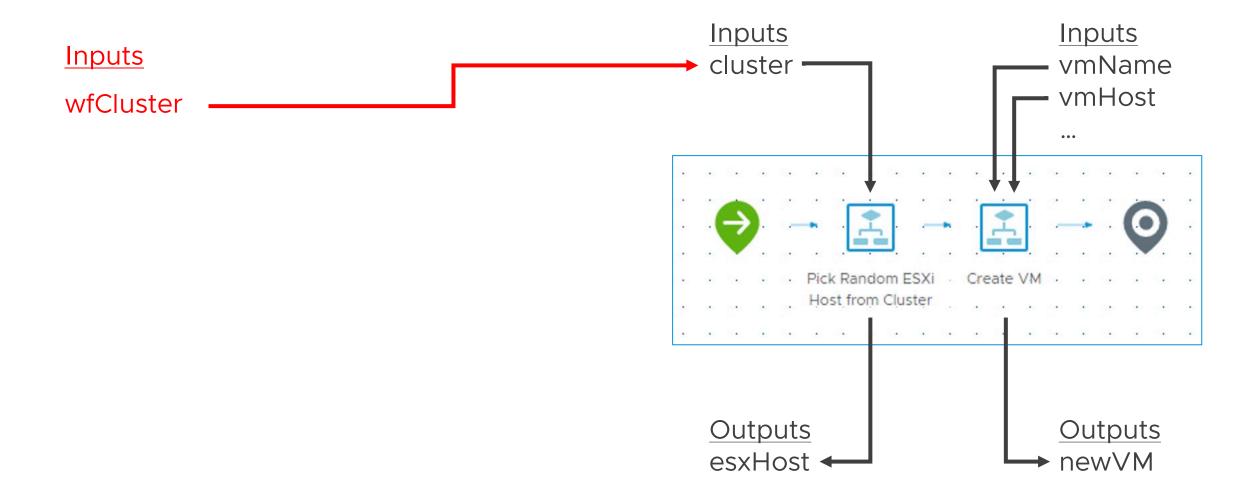


Data Flow (4)



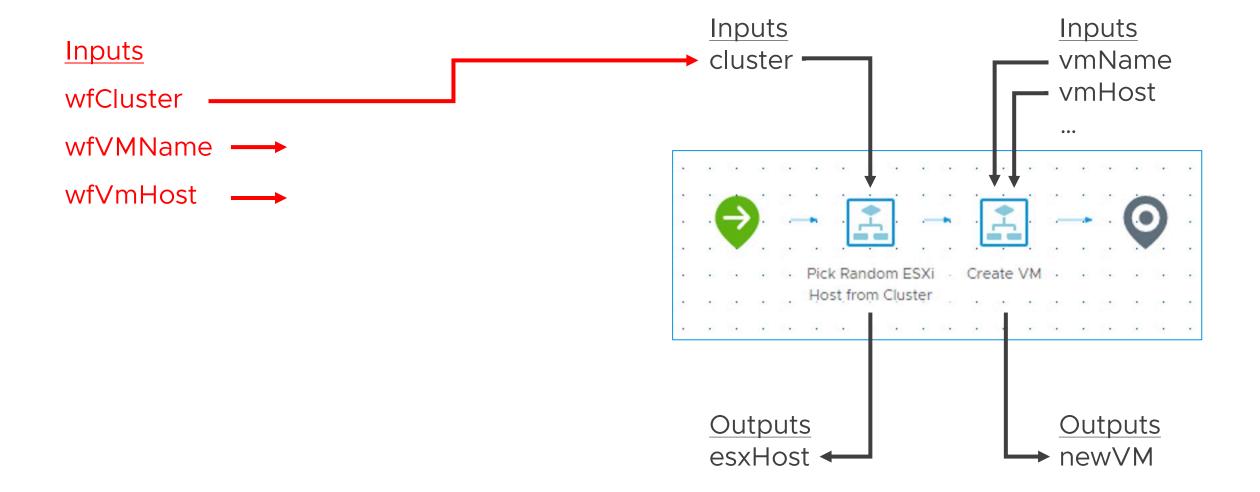


Let's Do Some Binding (1)

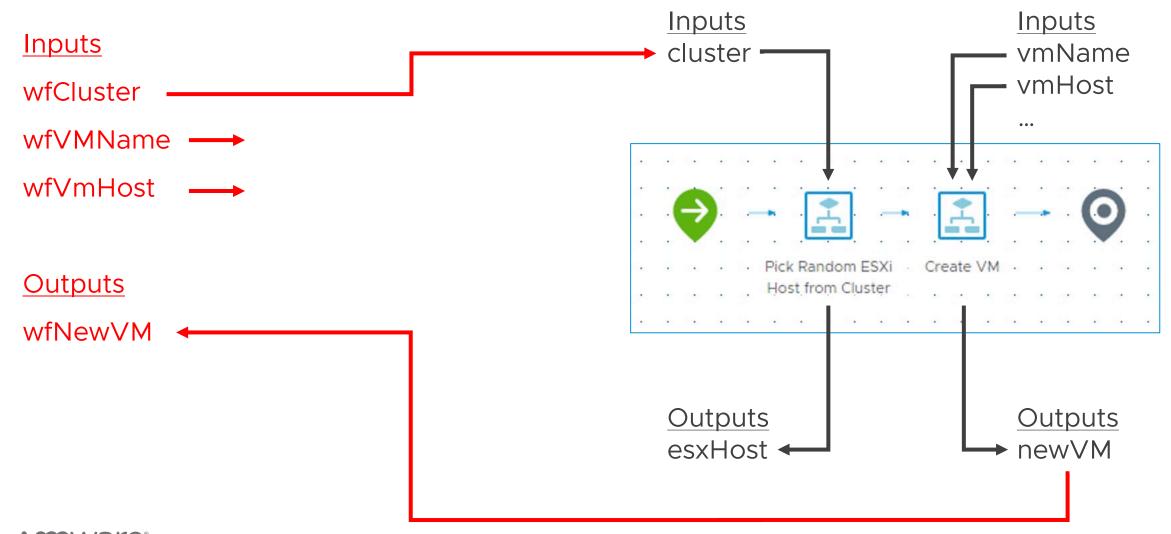




Let's Do Some Binding (2)

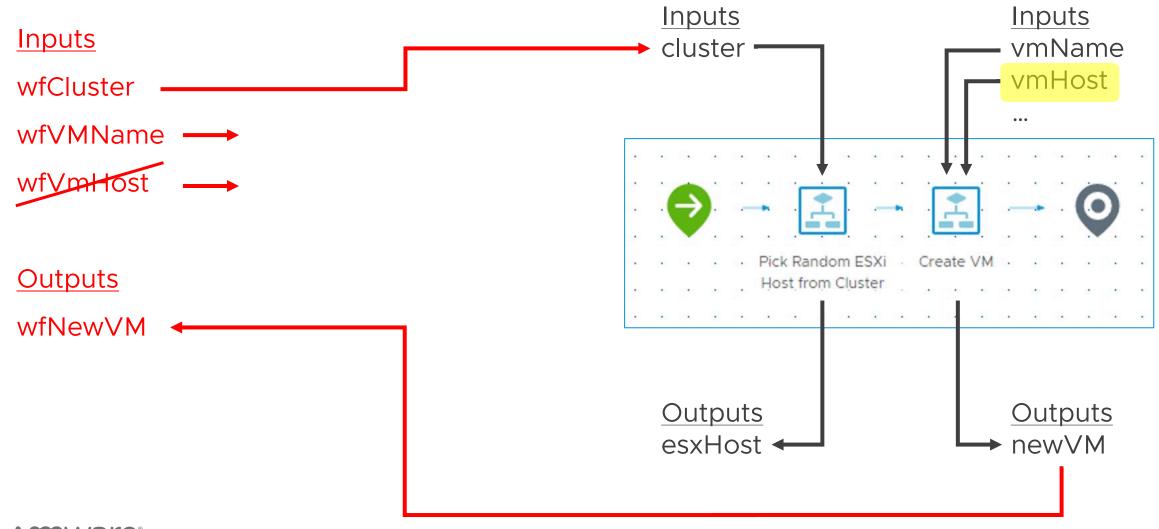


Let's Do Some Binding (3)



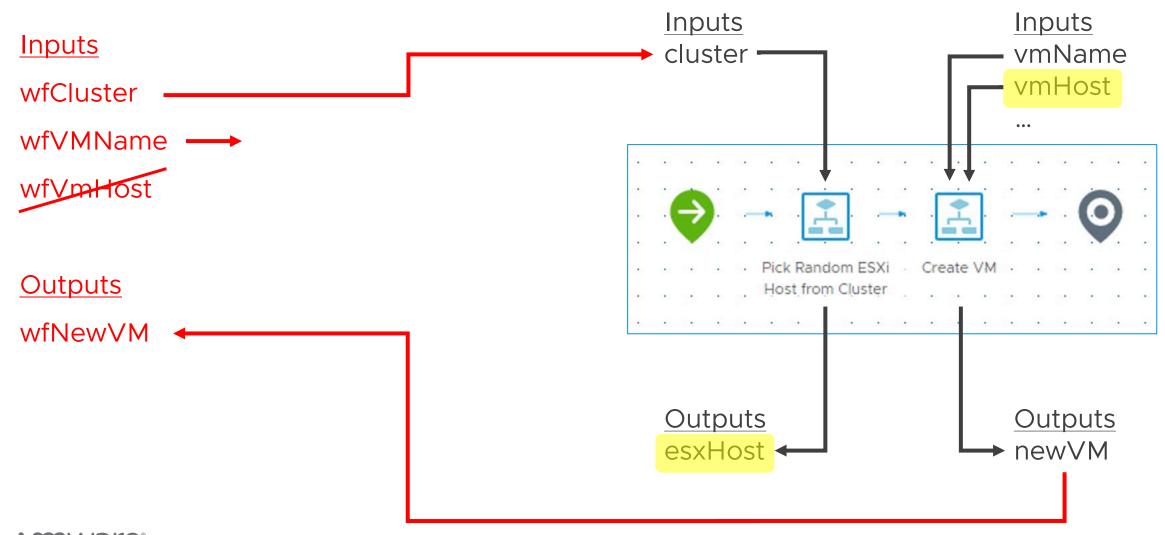
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Let's Do Some Binding (4)



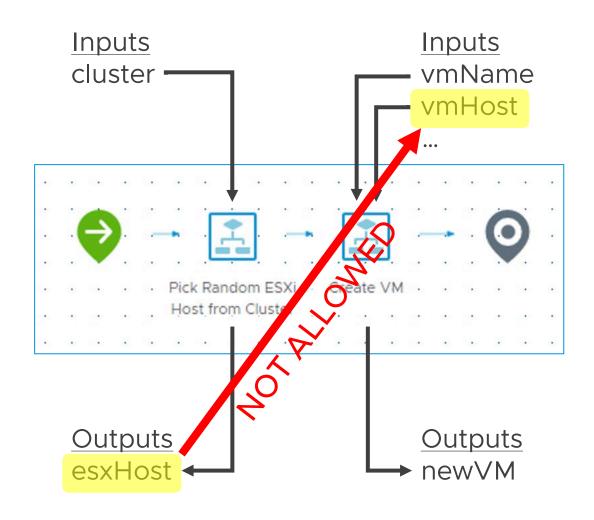
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Let's Do Some Binding (5)



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Let's Do Some Binding (6)



Let's Do Some Binding (7)

<u>Inputs</u>

wfCluster ---

wfVMName ---

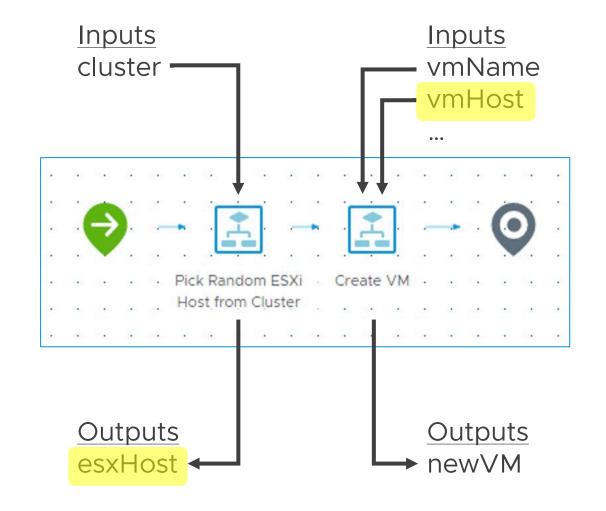
wfVmHost

<u>Outputs</u>

wfNewVM -

Variables

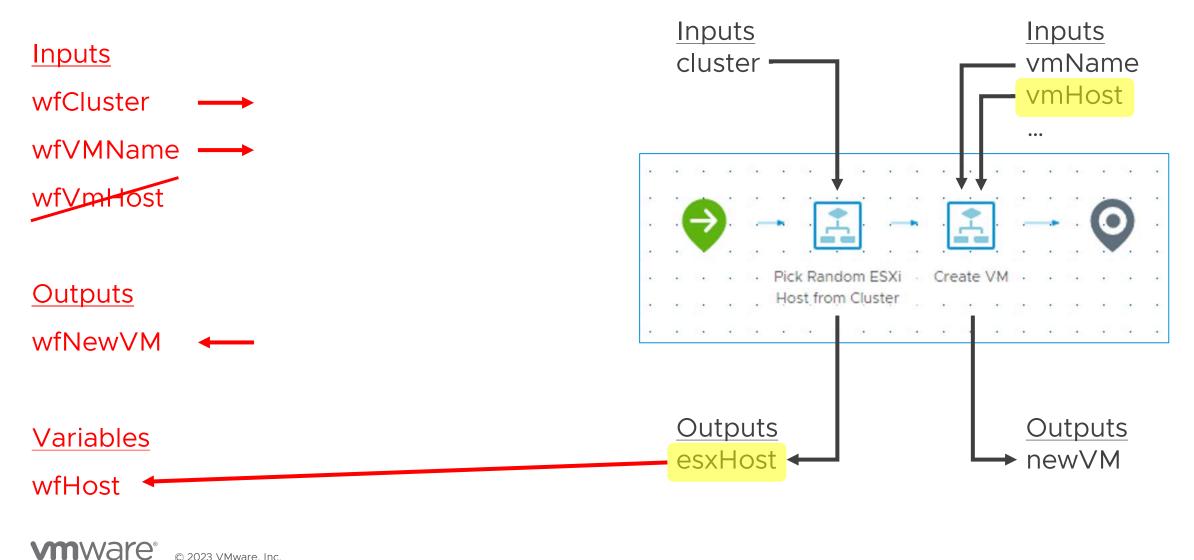
wfHost





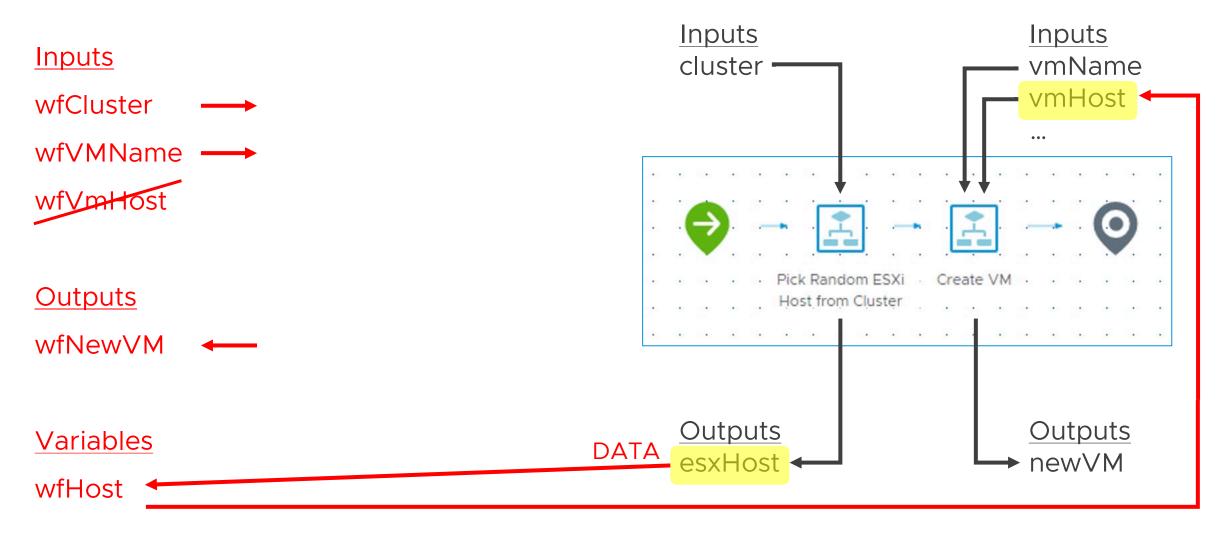
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Let's Do Some Binding (8)



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Let's Do Some Binding (9)



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Q & A



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Thank You

