

Sample Extension for Integration with Infoblox IPAM

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Related Information

Introduction

This document provides a sample extension for integration of Infoblox™ IPAM as a third-party IP address management system for networks identified as type *External* in Cisco Intelligent Automation for Cloud.

Before You Begin

Requirements

Ensure that you meet these requirements before you attempt this configuration:

- Valid login credentials for Cisco Process Orchestrator with permission to edit processes
- Valid login credentials for the Infoblox software that Cisco Process Orchestrator uses

Components Used

The information in this document is based on these hardware and software versions:

- Cisco Intelligent Automation for Cloud 3.1.1 (any edition)
- Cisco Process Orchestrator 2.3.5 with ActivePerl installed along with Infoblox Perl modules. You can download the Infoblox Perl module from your Infoblox server at:

`http://<INFOBLOXSERVER>/api/dist/ppm`

- Infoblox IPAM that runs NIOS release 5.1r2-100-126445 or later

Conventions

For more information on document conventions, refer to Cisco Technical Tips Conventions.

Installation

1. On the Cisco Process Orchestrator server, create a directory named *iac* on the C: drive:

```
mkdir c:\iac
```

Note: If you use a directory other than *c:\iac*, you must update the local directory variable *Infoblox folder* in the processes *Extension: Get Infoblox IP* and *Extension: Return Infoblox IP* with the actual path to your folder.

2. Copy the Infoblox Perl module folder into *c:\iac*. The result should be *c:\iac\Infoblox*.
3. Open the ActivePerl Perl Package Manager.
4. Add the Infoblox Perl modules as a repository with a repository name of *Infoblox* and a file location of *file:///C:/iac/Infoblox*.
5. Install the Crypt-SSLeay Perl module.
6. Install the Infoblox Perl module.
7. Close Perl Package Manager.
8. Restart the Cisco Process Orchestrator Server.
9. Import the Cisco Intelligent Automation for Cloud Extension Samples tap.

Configuration

Complete the steps in this section in order to configure the features described in this document:

1. Set the Infoblox Global Variables
2. Add Infoblox Extension: Get Infoblox IP
3. Add Infoblox Extension: Return Infoblox IP

Set the Infoblox Global Variables

Set these global variables defined for Infoblox:

- Infoblox Master
- Infoblox User
- Infoblox Password

Note: The information for these variables are provided by the Infoblox administrator.

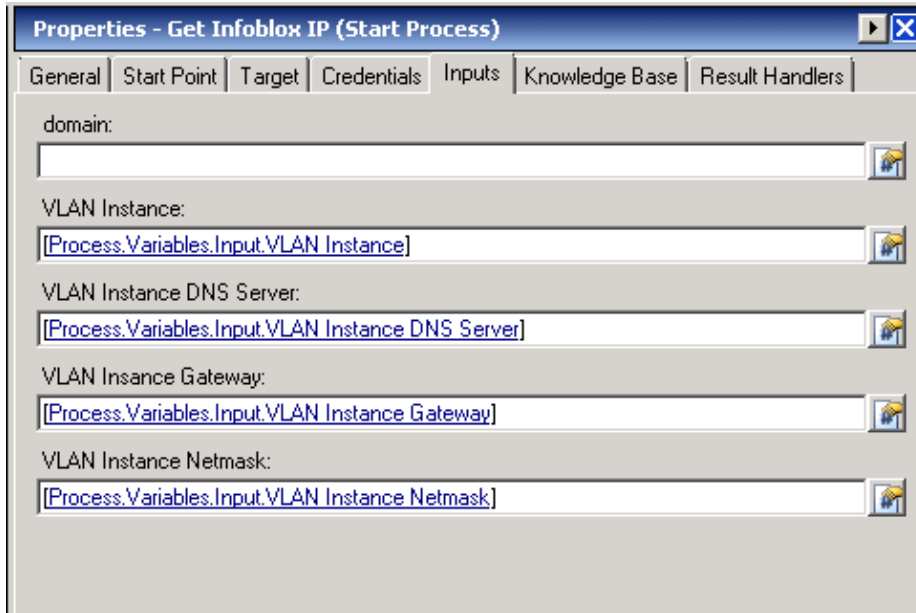
Add Extension: Get Infoblox IP

1. Edit the **Get IP Address >> User Defined** workflow.
2. Add the **Extension: Get Infoblox IP** process to the workflow.
3. On the Inputs tab, add the values listed in this table:

Variable Name	Value
Domain	If no value is set, defaults to global variable <i>Cloud Domain</i> .
VLAN Instance	Process.Variables.Input.VLAN Instance
VLAN Instance	Process.Variables.Input.VLAN Instance DNS Server

DNS Server	
VLAN Instance Gateway	Process.Variables.Input.VLAN Instance Gateway
VLAN Instance Netmask	Process.Variables.Input.VLAN Instance Netmask

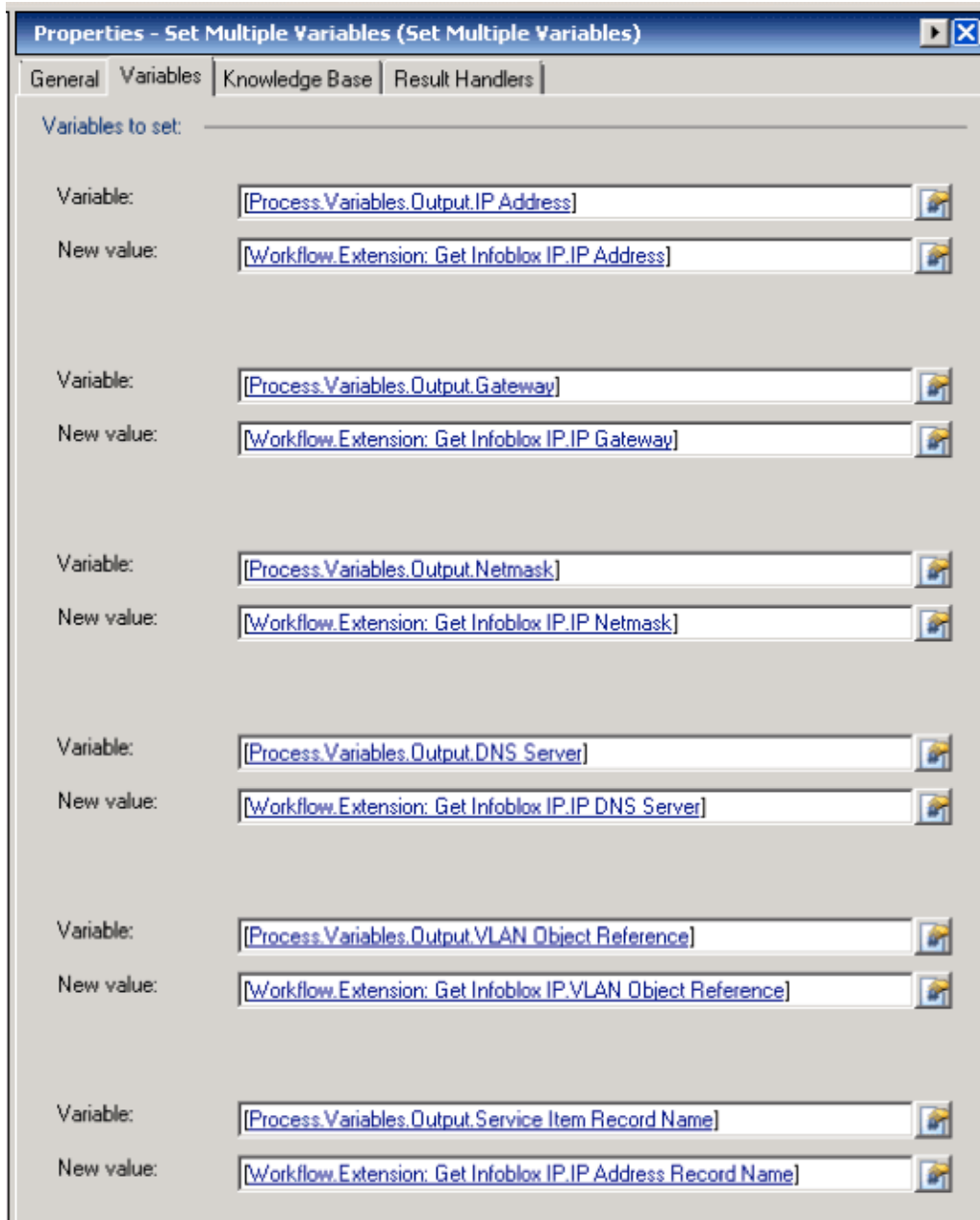
This image provides an example of the configuration:



4. Add **Set Multiple Variables** to the workflow.
5. On the Variables tab, add the values listed in this table:

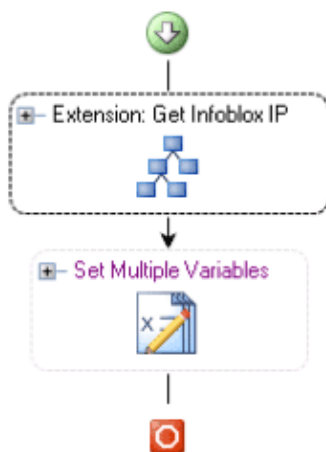
Variable Name	Value
Process.Variables.Output.IP Address	Workflow.Extension:Get Infoblox IP.IP Address
Process.Variables.Output.Gateway	Workflow.Extension:Get Infoblox IP.IP Gateway
Process.Variables.Output.Netmask	Workflow.Extension:Get Infoblox IP.IP Netmask
Process.Variables.Output.DNS Server	Workflow.Extension:Get Infoblox IP.IP DNS Server
Process.Variables.Output.VLAN Object Reference	Workflow.Extension:Get Infoblox IP.IP VLAN Object Reference
Process.Variables.Output.Service Item Record Name	Workflow.Extension:Get Infoblox IP.IP Address Record Name

This image provides an example of the configuration:



Once this procedure is complete, the workflow should appear as shown in this image:

Get IP Address >> User Defined

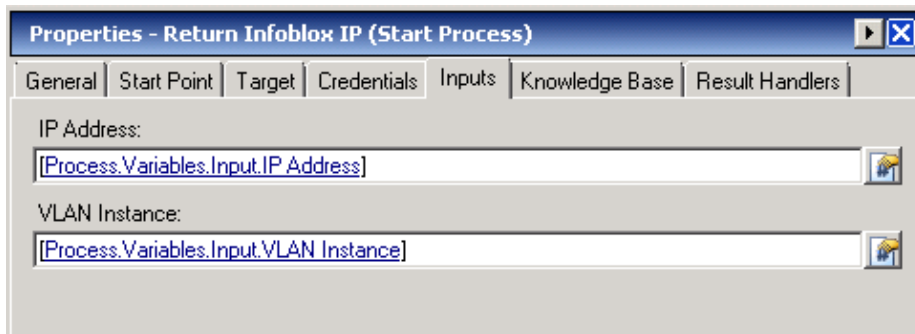


Add Extension: Return Infoblox IP

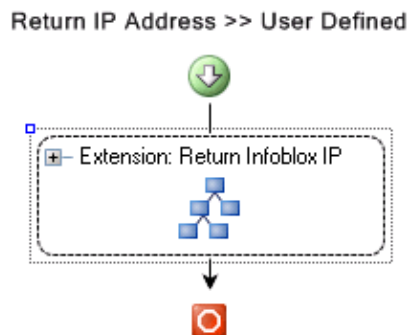
1. Edit the **Return IP Address >> User Defined** workflow.
2. Add the **Extension: Return Infoblox IP** process to the workflow
3. On the Inputs tab, add the values listed in this table:

Variable Name	Value
IP Address	Process.Variable.Input.IP Address
VLAN Instance	Process.Variables.Input.VLAN Instance

This image provides an example of the configuration.



Once this procedure is complete, the workflow should appear as shown in this image:



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