

DO274

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Table of Contents

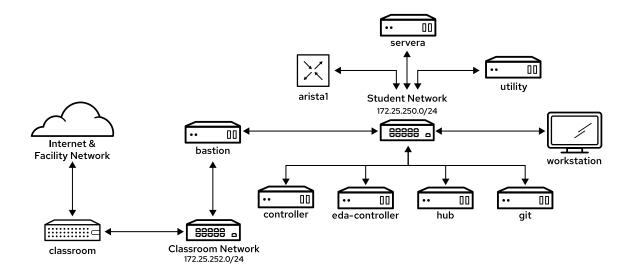
1. Ir	ntroduction	. 1
1	.1. Repositories for this Course	. 1
2. G	etting Started with Event- Driven Ansible	. 2
2	.1. Introduction to Event-Driven Ansible	. 2
	2.1.1. Event-Driven Ansible	. 2
	2.1.2. Event-Driven Ansible Components	. 2
	2.1.3. Running Ansible Rulebooks	. 2
	2.1.3.1. Running Ansible Rulebooks from the Command Line	. 2
	2.1.3.2. Running Ansible Rulebooks with Event-Driven Ansible Controller	. 2
	2.1.4. Content for the Event Source Plug-ins	. 2
	2.1.4.1. Red Hat Ansible Certified Content	. 2
	2.1.4.2. Ansible Validated Content	. 2
	2.1.4.3. Getting Content from Private Automation Hub	. 2
	2.1.5. Event-Driven Ansible Use Cases.	. 2
	2.1.5.1. Fact and Ticket Enrichment	. 2
	2.1.5.2. High Occurrence of Low-complexity Issues	. 2
	2.1.5.3. Security and Compliance Automation	. 2
2	.2. Creating and Testing Ansible Rulebooks	. 3
	2.2.1. Reading and Writing Ansible Rulebooks	. 3
	2.2.2. Selecting Actions for Rules	. 3
	2.2.2.1. Actions on an Automation Controller	. 3
	2.2.3. Event Source Plug-ins and Sample Rulebooks	. 3
	2.2.3.1. Reacting to Webhook Events	. 3
	2.2.3.2. Reacting to Log Events	. 3
	2.2.3.3. Reacting to URL Check Events	. 3
	2.2.4. Testing Ansible Rulebooks	. 3
2	.3. DEMO - Acting on Webhook Events	. 4
	2.3.1. <section_sub_intro_here></section_sub_intro_here>	. 4
2	.4. DEMO - Acting on System Journal Events	. 5
	2.4.1. <section_sub_intro_here></section_sub_intro_here>	. 5
2	.5. DEMO - Acting on Results from the URL Check Plug-in	. 6
	2.5.1. <section_sub_intro_here></section_sub_intro_here>	. 6
3. G	etting Started with Event- Driven Ansible Controller	. 7
3	.1. Installing Event-Driven Ansible Controller	. 7
	3.1.1. Planning the Installation	. 7
	3.1.1.1. Automation Controller, Private Automation Hub, and Event- Driven Ansible	

Controller with External Database Servers.	7
3.1.2. Event-Driven Ansible Controller Installation Options	7
3.1.2.1. Installation Requirements	7
3.1.2.2. Database Storage	7
3.1.3. Subscription and Support	7
3.1.4. Installing Red Hat Ansible Automation Platform	7
3.1.4.1. Installing Event-Driven Ansible Controller	7
3.1.5. Replacing the CA Certificate	7
3.1.5.1. Gathering Certificates and Private Keys	7
3.1.5.2. Preparing the Systems	7
3.1.6. Trusting Custom CA Certificates	7
3.1.7. Updating RPM Packages on Ansible Automation Platform Servers	7
3.2. Configuring Event-Driven Ansible Controller to Run Ansible Rulebooks	8
3.2.1. Event-Driven Ansible Controller Resources	8
3.2.2. Creating Credentials	8
3.2.3. Creating Projects	8
3.2.4. Creating Controller Tokens	8
3.2.5. Creating Ansible Rulebook Activations	8
3.2.6. Launching an Automation Controller Job Template or Workflow Template Using a	
Rulebook Activation	8
3.2.7. Viewing Rule Audits	8
3.3. DEMO - Configuring Event-Driven Ansible Controller to Run Ansible Rulebooks	9
3.3.1. <section_sub_intro_here></section_sub_intro_here>	9
4. Example Use Cases for Event- Driven Ansible	10
4.1. GitOps with Event-Driven Ansible	10
4.1.1. Using Webhooks in Event-Driven Ansible.	10
4.1.2. Configuring Webhooks in the Git Repository Server	10
4.1.2.1. Configuring GitLab to use Webhooks	10
4.1.2.2. Configuring Projects in GitLab to use Webhooks.	10
4.1.2.3. Testing a Webhook in GitLab	10
4.1.3. Using Tests from GitLab to Create Rules in Rulebooks	10
4.2. DEMO - GitOps with Event-Driven Ansible	11
4.2.1. <section_sub_intro_here></section_sub_intro_here>	11
4.3. Event-Driven Ansible and NetOps	12
4.3.1. Reacting to Network Events	12
4.3.2. Managing Network Devices	12
4.3.3. Running Playbooks that Include Networking Modules	12
4.3.3.1. Run Playbooks on Your Local System	12

4.3.3.2. Run Playbooks on an Automation Controller	12
4.3.4. Using Network Telemetry	12
4.3.4.1. Configuring Network Telemetry	12
4.3.4.2. Configuring gNMI on Network Switches	12
4.3.4.3. Configuring Telegraf	12
4.3.4.4. Managing and Querying Apache Kafka Topics	12
4.3.4.5. Using EDA to Query Apache Kafka	12
4.3.5. Integrating EDA with Chat Services	12
4.3.5.1. Configuring an Incoming Webhook	12
4.3.5.2. Configuring an Outgoing Webhook	12
4.4. DEMO - Event-Driven Ansible and NetOps	13
4.4.1. <section_sub_intro_here></section_sub_intro_here>	13
4.5. DEMO - Event-Driven Ansible and Automated Notifications	14
4.5.1. <section_sub_intro_here></section_sub_intro_here>	14
4.6. DEMO - Triggering Event-Driven Ansible from a Chat Room	15
4.6.1. <section_sub_intro_here></section_sub_intro_here>	15



1. Introduction



1.1. Repositories for this Course

Main Repository

- DO274_Notes: https://github.com/tmichett/DO274_Notes
 - Contains book components and demos and builds on Jenkins server. This is a private repository.
- DO274_Demo: https://github.com/tmichett/DO274_Demo
 - Contains PDF copy of book, demo source, and reference materials. This is a public repository and shared as part of the course delivery.



2. Getting Started with Event- Driven Ansible

2.1. Introduction to Event-Driven Ansible

- 2.1.1. Event-Driven Ansible
- 2.1.2. Event-Driven Ansible Components
- 2.1.3. Running Ansible Rulebooks
- 2.1.3.1. Running Ansible Rulebooks from the Command Line
- 2.1.3.2. Running Ansible Rulebooks with Event-Driven Ansible Controller
- 2.1.4. Content for the Event Source Plug-ins
- 2.1.4.1. Red Hat Ansible Certified Content
- 2.1.4.2. Ansible Validated Content
- 2.1.4.3. Getting Content from Private Automation Hub
- 2.1.5. Event-Driven Ansible Use Cases
- 2.1.5.1. Fact and Ticket Enrichment
- 2.1.5.2. High Occurrence of Low-complexity Issues
- 2.1.5.3. Security and Compliance Automation



2.2. Creating and Testing Ansible Rulebooks

- 2.2.1. Reading and Writing Ansible Rulebooks
- 2.2.2. Selecting Actions for Rules
- 2.2.2.1. Actions on an Automation Controller
- 2.2.3. Event Source Plug-ins and Sample Rulebooks
- 2.2.3.1. Reacting to Webhook Events
- 2.2.3.2. Reacting to Log Events
- 2.2.3.3. Reacting to URL Check Events
- 2.2.4. Testing Ansible Rulebooks



2.3. DEMO - Acting on Webhook Events

Section Info Here

Listing 1. Example Code box for CLI

[student@workstation ~]\$ sudo yum module install container-tools

Listing 2. Example Code box for YAML

```
---
- name: Deploy HTTPD Server Demo
hosts: server
collections:

tasks:

## Start and Run the HTTPD Container
- name: Start the Apache Container
podman_container:
```

Example 1. LAB/Exercise: Hands-On Activity Example

```
1. Download a container image.
```

a. Registry: registry.access.redhat.com

b. Image: ubi7

2. Run the container

2.3.1. <Section_Sub_Intro_Here>



2.4. DEMO - Acting on System Journal Events

Section Info Here

Listing 3. Example Code box for CLI

[student@workstation ~]\$ sudo yum module install container-tools

Listing 4. Example Code box for YAML

```
---
- name: Deploy HTTPD Server Demo
hosts: server
collections:

tasks:

## Start and Run the HTTPD Container
- name: Start the Apache Container
podman_container:
```

Example 2. LAB/Exercise: Hands-On Activity Example

1. Download a container image.

a. Registry: registry.access.redhat.com

b. Image: ubi7

2. Run the container

2.4.1. <Section_Sub_Intro_Here>



2.5. DEMO - Acting on Results from the URL Check Plugin

Section Info Here

Listing 5. Example Code box for CLI

```
[student@workstation ~]$ sudo yum module install container-tools
```

Listing 6. Example Code box for YAML

```
---
- name: Deploy HTTPD Server Demo
hosts: server
collections:

tasks:

## Start and Run the HTTPD Container
- name: Start the Apache Container
podman_container:
```

Example 3. LAB/Exercise: Hands-On Activity Example

```
1. Download a container image.
```

a. Registry: registry.access.redhat.com

b. Image: ubi7

2. Run the container

2.5.1. <Section_Sub_Intro_Here>



3. Getting Started with Event- Driven Ansible Controller

3.1. Installing Event-Driven Ansible Controller

- 3.1.1. Planning the Installation
- 3.1.1.1. Automation Controller, Private Automation Hub, and Event- Driven Ansible Controller with External Database Servers
- 3.1.2. Event-Driven Ansible Controller Installation Options
- 3.1.2.1. Installation Requirements
- 3.1.2.2. Database Storage
- 3.1.3. Subscription and Support
- 3.1.4. Installing Red Hat Ansible Automation Platform
- 3.1.4.1. Installing Event-Driven Ansible Controller
- 3.1.5. Replacing the CA Certificate
- 3.1.5.1. Gathering Certificates and Private Keys
- 3.1.5.2. Preparing the Systems
- 3.1.6. Trusting Custom CA Certificates
- 3.1.7. Updating RPM Packages on Ansible Automation Platform Servers



3.2. Configuring Event-Driven Ansible Controller to Run Ansible Rulebooks

- 3.2.1. Event-Driven Ansible Controller Resources
- 3.2.2. Creating Credentials
- 3.2.3. Creating Projects
- 3.2.4. Creating Controller Tokens
- 3.2.5. Creating Ansible Rulebook Activations
- 3.2.6. Launching an Automation Controller Job Template or Workflow Template Using a Rulebook Activation
- 3.2.7. Viewing Rule Audits



3.3. DEMO - Configuring Event-Driven Ansible Controller to Run Ansible Rulebooks

Section Info Here

Listing 7. Example Code box for CLI

[student@workstation ~]\$ sudo yum module install container-tools

Listing 8. Example Code box for YAML

```
---
- name: Deploy HTTPD Server Demo
hosts: server
collections:

tasks:

## Start and Run the HTTPD Container
- name: Start the Apache Container
podman_container:
```

Example 4. LAB/Exercise: Hands-On Activity Example

1. Download a container image.

a. Registry: registry.access.redhat.com

b. Image: **ubi**7

2. Run the container

3.3.1. <Section_Sub_Intro_Here>



4. Example Use Cases for Event- Driven Ansible

4.1. GitOps with Event-Driven Ansible

- 4.1.1. Using Webhooks in Event-Driven Ansible
- 4.1.2. Configuring Webhooks in the Git Repository Server
- 4.1.2.1. Configuring GitLab to use Webhooks
- 4.1.2.2. Configuring Projects in GitLab to use Webhooks
- 4.1.2.3. Testing a Webhook in GitLab
- 4.1.3. Using Tests from GitLab to Create Rules in Rulebooks



4.2. DEMO - GitOps with Event-Driven Ansible

Section Info Here

Listing 9. Example Code box for CLI

[student@workstation ~]\$ sudo yum module install container-tools

Listing 10. Example Code box for YAML

```
---
- name: Deploy HTTPD Server Demo
hosts: server
collections:

tasks:

## Start and Run the HTTPD Container
- name: Start the Apache Container
podman_container:
```

Example 5. LAB/Exercise: Hands-On Activity Example

1. Download a container image.

a. Registry: registry.access.redhat.com

b. Image: ubi7

2. Run the container

4.2.1. <Section_Sub_Intro_Here>



4.3. Event-Driven Ansible and NetOps

- 4.3.1. Reacting to Network Events
- 4.3.2. Managing Network Devices
- 4.3.3. Running Playbooks that Include Networking Modules
- 4.3.3.1. Run Playbooks on Your Local System
- 4.3.3.2. Run Playbooks on an Automation Controller
- 4.3.4. Using Network Telemetry
- 4.3.4.1. Configuring Network Telemetry
- 4.3.4.2. Configuring gNMI on Network Switches
- 4.3.4.3. Configuring Telegraf
- 4.3.4.4. Managing and Querying Apache Kafka Topics
- 4.3.4.5. Using EDA to Query Apache Kafka
- 4.3.5. Integrating EDA with Chat Services
- 4.3.5.1. Configuring an Incoming Webhook
- 4.3.5.2. Configuring an Outgoing Webhook



4.4. DEMO - Event-Driven Ansible and NetOps

Section Info Here

Listing 11. Example Code box for CLI

[student@workstation ~]\$ sudo yum module install container-tools

Listing 12. Example Code box for YAML

```
---
- name: Deploy HTTPD Server Demo
hosts: server
collections:

tasks:

## Start and Run the HTTPD Container
- name: Start the Apache Container
podman_container:
```

Example 6. LAB/Exercise: Hands-On Activity Example

1. Download a container image.

a. Registry: registry.access.redhat.com

b. Image: ubi7

2. Run the container

4.4.1. <Section_Sub_Intro_Here>



4.5. DEMO - Event-Driven Ansible and Automated Notifications

Section Info Here

Listing 13. Example Code box for CLI

[student@workstation ~]\$ sudo yum module install container-tools

Listing 14. Example Code box for YAML

```
---
- name: Deploy HTTPD Server Demo
hosts: server
collections:

tasks:

## Start and Run the HTTPD Container
- name: Start the Apache Container
podman_container:
```

Example 7. LAB/Exercise: Hands-On Activity Example

1. Download a container image.

a. Registry: registry.access.redhat.com

b. Image: ubi7

2. Run the container

4.5.1. <Section_Sub_Intro_Here>



4.6. DEMO - Triggering Event-Driven Ansible from a Chat Room

Section Info Here

Listing 15. Example Code box for CLI

[student@workstation ~]\$ sudo yum module install container-tools

Listing 16. Example Code box for YAML

```
---
- name: Deploy HTTPD Server Demo
hosts: server
collections:

tasks:

## Start and Run the HTTPD Container
- name: Start the Apache Container
podman_container:
```

Example 8. LAB/Exercise: Hands-On Activity Example

1. Download a container image.

a. Registry: registry.access.redhat.com

b. Image: ubi7

2. Run the container

4.6.1. <Section_Sub_Intro_Here>