



# Red Hat Training and Certification

DO274

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# 1. Getting Started with Event-Driven Ansible

## 1.1. Introduction to Event-Driven Ansible

### 1.1.1. Event-Driven Ansible

### 1.1.2. Event-Driven Ansible Components

### 1.1.3. Running Ansible Rulebooks

#### 1.1.3.1. Running Ansible Rulebooks from the Command Line

#### 1.1.3.2. Running Ansible Rulebooks with Event-Driven Ansible Controller

### 1.1.4. Content for the Event Source Plug-ins

#### 1.1.4.1. Red Hat Ansible Certified Content

#### 1.1.4.2. Ansible Validated Content

#### 1.1.4.3. Getting Content from Private Automation Hub

### 1.1.5. Event-Driven Ansible Use Cases

#### 1.1.5.1. Fact and Ticket Enrichment

#### 1.1.5.2. High Occurrence of Low-complexity Issues

#### 1.1.5.3. Security and Compliance Automation

## 1.2. Creating and Testing Ansible Rulebooks

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### 1.2.1. Reading and Writing Ansible Rulebooks

### 1.2.2. Selecting Actions for Rules

#### 1.2.2.1. Actions on an Automation Controller

### 1.2.3. Event Source Plug-ins and Sample Rulebooks

#### 1.2.3.1. Reacting to Webhook Events

#### 1.2.3.2. Reacting to Log Events

#### 1.2.3.3. Reacting to URL Check Events

### 1.2.4. Testing Ansible Rulebooks

## 1.3. 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

#### 1.3.1. <Section\_Sub\_Intro\_Here>

## 1.4. 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

#### 1.4.1. <Section\_Sub\_Intro\_Here>

## 1.5. DEMO - Acting on Results from the URL Check Plug-in

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

#### 1.5.1. <Section\_Sub\_Intro\_Here>



## 2. Getting Started with Event- Driven Ansible Controller

### 2.1. Installing Event-Driven Ansible Controller

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: **ubi7**
2. Run the container

#### 2.1.1. <Section\_Sub\_Intro\_Here>

## 2.2. Configuring Event-Driven Ansible Controller to Run Ansible Rulebooks

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

#### 2.2.1. <Section\_Sub\_Intro\_Here>

## 2.3. DEMO - Configuring Event-Driven Ansible Controller to Run Ansible Rulebooks

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

#### 2.3.1. <Section\_Sub\_Intro\_Here>

# 3. Example Use Cases for Event- Driven Ansible

## 3.1. GitOps with Event-Driven Ansible

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

#### 3.1.1. <Section\_Sub\_Intro\_Here>

## 3.2. DEMO - GitOps with Event-Driven Ansible

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

#### 3.2.1. <Section\_Sub\_Intro\_Here>

## 3.3. Event-Driven Ansible and NetOps

Section Info Here

### Listing 17. Example Code box for CLI

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

### Listing 18. 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 9. LAB/Exercise: Hands-On Activity Example

1. Download a container image.
  - a. Registry: **registry.access.redhat.com**
  - b. Image: **ubi7**
2. Run the container

#### 3.3.1. <Section\_Sub\_Intro\_Here>

## 3.4. DEMO - Event-Driven Ansible and NetOps

Section Info Here

### Listing 19. Example Code box for CLI

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

### Listing 20. 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 10. LAB/Exercise: Hands-On Activity Example

1. Download a container image.
  - a. Registry: **registry.access.redhat.com**
  - b. Image: **ubi7**
2. Run the container

#### 3.4.1. <Section\_Sub\_Intro\_Here>

## 3.5. DEMO - Event-Driven Ansible and Automated Notifications

Section Info Here

### Listing 21. Example Code box for CLI

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

### Listing 22. 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 11. LAB/Exercise: Hands-On Activity Example

1. Download a container image.
  - a. Registry: **registry.access.redhat.com**
  - b. Image: **ubi7**
2. Run the container

#### 3.5.1. <Section\_Sub\_Intro\_Here>



## 3.6. DEMO - Triggering Event-Driven Ansible from a Chat Room

Section Info Here

### Listing 23. Example Code box for CLI

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

### Listing 24. 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 12. LAB/Exercise: Hands-On Activity Example

1. Download a container image.
  - a. Registry: **registry.access.redhat.com**
  - b. Image: **ubi7**
2. Run the container

#### 3.6.1. <Section\_Sub\_Intro\_Here>