

Ansible Security automation workshop

Introduction to Ansible security automation for security teams



Ansible security automation workshop

Housekeeping

- Timing
- Breaks
- Takeaways







What you will learn

Introduction

- Introducing Ansible Automation Platform
- Ansible security automation overview

Section 1

- Exploring the lab environment
- Ansible Automation Platform basics
- Lab exercises

Section 2

- Security personas
- Automation controller basics
- Lab exercises

Section 3

Wrapping up



Ansible security automation workshop

Introduction

Topics Covered:

- Why Ansible Automation Platform?
- Ansible security automation overview

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Why Ansible Automation Platform?







Automation happens when one person meets a problem they never want to solve again





Why the Ansible Automation Platform?



Powerful

Orchestrate complex processes at enterprise scale.

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Simple

Simplify automation creation and management across multiple domains.

Agentless

Easily integrate with hybrid environments.



Automate the deployment and management of automation Your entire IT footprint

Do this... Deliver continuously Orchestrate Manage configurations **Deploy applications** Provision / deprovision Secure and comply On these... 22 Load balancers Applications Containers Virtualization platforms Firewalls \bigcirc = = · · $\left(+\right)$ Storage Network devices Servers Clouds And more ...



Break down silos





Introduction

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What is Ansible security automation?



What Is Ansible security automation?

Ansible security automation is our expansion deeper into the security use case. The goal is to provide a more efficient, streamlined way for security teams to automate their various processes for the identification, search, and response to security events. This is more complex and higher-value than the application of a security baseline (PCI, STIG, CIS) to a server.

Ansible security automation is a supported set of Ansible modules, roles and playbooks designed to unify the security response to cyberattacks.



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What Ansible security automation covers



Is It A Security Solution?

No. Ansible can help Security teams "stitch together" the numerous security solutions and tools already in their IT environment for a more effective cyber defense.

By automating security capabilities, organizations can better unify responses to cyberattacks through the coordination of multiple, disparate security solutions, helping these technologies to act as one in the face of an IT security event.

Red Hat will not become a security vendor, we want to be a security enabler.



What Does It Do?



Investigation Enrichment

Enabling programmatic access to log configurations such as destination, verbosity, etc.

Threat Hunting

Automate alerts, correlation searches and signature manipulation to preemptively identify threats

Incident Response

Creating new security policies to grant access, block or quarantine a machine



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Ansible security automation

Ansible Security Ecosystem



Ansible security automation workshop

Section 1

Introduction to Ansible security automation

basics





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Section 1

Exercise 1.1

Topics Covered:

- Exploring the lab environment
- What are automation execution environments?
- Automation content navigator (ansible-navigator)
- Workshop inventory overview





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Security workshop architecture







What are Automation execution environments?



Automation execution environments

Components needed for automation, packaged in a cloud-native way



Build, create, publish

Development cycle of an automation execution environment





Develop, test, run

How to develop, test and run containerized Ansible content





Workshop Automation execution environment

Ansible Security Roles and Automation content collections already available

Do I need to do anything? No

- Everything has been set up for you and ready to use.
- All Content Collections and Roles are included.
- ansible-navigator configuration preconfigured

What's included?

We will use ansible-navigator to explore the security_ee content

ansible-navigator
execution-environment:
 image: security_ee:latest
 enabled: true
 container-engine: podman
 pull-policy: missing





Automation content navigator (ansible-navigator)



ansible-navigator

Using the latest ansible-navigator command



What is ansible-navigator?

ansible-navigator command line utility and text-based user interface (TUI) for running and developing Ansible automation content.

It replaces the previous command used to run playbooks "ansible-playbook".

\$ ansible-navigator run playbook.yml



ansible-navigator

Mapping to previous Ansible commands

ansible command	ansible-navigator command
ansible-config	ansible-navigator config
ansible-doc	ansible-navigator doc
ansible-inventory	ansible-navigator inventory
ansible-playbook	ansible-navigator run



How do I use ansible-navigator?

Hello ansible-navigator



How do I use ansible-navigator?

As previously mentioned, it replaces the ansible-playbook command.

As such it brings two methods of running playbooks:

- Direct command-line interface
- Text-based User Interface (TUI)

Direct command-line interface method
\$ ansible-navigator run playbook.yml -m stdout

Text-based User Interface method
\$ ansible-navigator run playbook.yml





Workshop inventory



Security workshop inventory

The Basics

- Contains all machines of your environment
- Setup up just for you, individually
- Note your individual IP addresses for each machine
- The exercises needs you to replace example IP addresses with your individual ones
- /home/student<X>/lab_inventory/hosts

[all:vars]

ansible_user=student<X>
ansible_ssh_pass=ansible
ansible_port=22

[control]

ansible ansible_host=22.33.44.55
ansible_user=ec2-user
private_ip=192.168.2.3



Workshop inventory - Groups



Ansible Inventory - Groups

[all:vars]

ansible_user=student1
ansible_ssh_pass=ansible
ansible_port=22

[control]

ansible ansible_host=22.33.44.55 ansible_user=ec2-user private_ip=192.168.2.3

[siem]

qradar ansible_host=22.44.55.77 ansible_user=admin private_ip=172.16.3.44 ansible_httpapi_pass="Ansible1!" ansible_connection=httpapi ansible_httpapi_use_ssl=yes ansible_httpapi_validate_certs=False ansible_network_os=ibm.qradar.qradar

[ids]

snort ansible_host=33.44.55.66 ansible_user=ec2-user private_ip=192.168.3.4



Workshop inventory - Variables



Ansible Inventory - Variables

[all:vars]
ansible_user=student1
ansible_ssh_pass=ansible
ansible_port=22

[control]

ansible_host=22.33.44.55 ansible_user=ec2-user private_ip=192.168.2.3

[siem]

qradar ansible_host=22.44.55.77 ansible_user=admin private_ip=172.16.3.44
ansible_httpapi_pass="Ansible1!" ansible_connection=httpapi ansible_httpapi_use_ssl=yes
ansible_httpapi_validate_certs=False ansible_network_os=ibm.qradar.qradar

[ids]

snort ansible_host=33.44.55.66 ansible_user=ec2-user private_ip=192.168.3.4



Exercise Time!

Do Exercise 1.1 in your lab environment

- Follow the steps to access your environment
- Your environment will have unique IP addresses and DNS names.

The screenshots are only examples

• Access to machines is done via the VS Code Online editor using the

built-in terminal



Section 1

Exercise 1.2

Topics Covered:

- Ansible Playbook basics
- Managing Check Point Next Generation Firewalls
- Running your first playbook



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Ansible Playbook basics



Exercise 1.2

Ansible playbooks



Playbook example

- name: install and start apache
hosts: web
become: yes

tasks:

_ _ _

- name: httpd package is present

yum:

- name: httpd
- state: latest
- name: latest index.html file is present
 template:
 src: files/index.html
 dest: /var/www/html/
- name: httpd is started
 service:
 name: httpd
 state: started






Ansible plays

What am I automating?



What are they?

Top level specification for a group of tasks. Will tell that play which hosts it will execute on and control behavior such as fact gathering or privilege level.

Building blocks for playbooks

Multiple plays can exist within an Ansible playbook that execute on different hosts.

- name: install and start apache
hosts: web
become: yes



Ansible modules

The "tools in the toolkit"



What are they?

Parametrized components with internal logic, representing a single step to be done. The modules "do" things in Ansible.

- name: latest index.html file ... template: src: files/index.html dest: /var/www/html/

Language

Usually Python, or Powershell for Windows setups. But can be of any language.

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Ansible plugins

The "extra bits"



What are they?

Plugins are pieces of code that augment Ansible's core functionality. Ansible uses a plugin architecture to enable a rich, flexible, and expandable feature set.



- name: install and start apache
hosts: web
become: yes

Example filter plugins:

{{ some_variable | to_nice_json }}
{{ some_variable | to_nice_yaml }}

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Ansible playbooks

 name: install and start apache hosts: web become: yes

tasks:

- name: httpd package is present
 yum:
 name: httpd
 state: latest
- name: latest index.html file is present
 template:
 src: files/index.html
 dest: /var/www/html/
- name: httpd is started
 service:
 name: httpd
 state: started





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Ansible playbooks

- name: install and start apache
hosts: web
become: yes

tasks:

- name: httpd package is present
yum:

A task

- name: httpd
 state: latest
- name: latest index.html file is present
 template:
 src: files/index.html
 dest: /var/www/html/
- name: httpd is started
 service:
 name: httpd
 state: started





Ansible playbooks

- name: install and start apache
hosts: web
become: yes

tasks:

- name: httpd package is present

A module

yum:

name: httpd state: latest

- name: latest index.html file is present
 template:
 src: files/index.html
 dest: /var/www/html/
- name: httpd is started
 service:
 name: httpd
 state: started





Ansible Colors

Running Playbooks The most important colors of Ansible

A task executed as expected, no change was made.

A task executed as expected, making a change

A task failed to execute successfully

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Managing Check Point Firewalls

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Managing Check Point Next Generation Firewalls

How do I use access Check Point firewalls?

- Accessed via a central management server
- Windows management software is called "SmartConsole"

Lab Check Point instances?

- Lab SmartConsole instance is installed on your Windows host.
- Accessed via generic RDP client or lab-provided RDP-HTML5 client
- HTTP REST API used to call Check Point API

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	Calumat: C Geteral	+ • • × \$\$ 2 tepto • (2 Asses) • O Aussis \$\$ Asses) • O Aussis \$\$ T n Active Eldols Machana O'Ulawaya Beconnected Eldols \$\$ T m Active Eldols Machana O'Ulawaya Beconnected Eldols \$\$ Connectos m Operators • • • • • • • • • • • • • • • • • • •	1 © 1 − ← B Object Gare ▲ Network	
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G.	Yame Datit Dray gy-2d3c68 gy-2d3c68 gy-2d3c68 PAL Aderse 122,192,241,111 GS GS OS GS Aderse 122,192,241,111 GS GS Userse Status - NA - NA - NA	Open server		
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	no ano mangua			
				Red Hat

Exercise 1.2

First Check Point Management Server Login

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Columns: 💿 General	•	*• 🔨 🗙 🎜 Scripts • 🖆 Actions	• O Monitor Q Search	T	1 📀 1	Q Search	
Status Name	IP Version	Active Blades Hardware CPU Usage	Recommended Updates Comments			← 🎽 🗄 🕴 🗰 New +	
s 🥝 🕾 gw-2d	c68 172.16.241.111 R80.20	🛨 🖬 🛛 Open server 🔍 💷 4%	3 updates available			Object Categories	
- 📼 myngfv	v 52.23.204.42 R80.20	Open server				Network Objects	
						Services	5
						Applications/Categories	75
						VPN Communities	
						🛦 Data Types	
						挫 Users	
						📕 Servers	
						⊙ Time Objects	
						🞗 UserCheck Interactions	
						🕜 Limit	
Generation Status:	6c68 172.16.241.111 Gaia R80.20 — N/A	Open server	Management Blades Metwork Policy ES Logging & Management Status				
		Memory: • 19% Device Information			Activate Blades		
No tacks in prograss a			B 404 70 470 044			4 Droff changes cound	ade





Running your first Playbook



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Verifying the playbook was successful Check Point Firewall Policy

≒ 👝 🗙 🚊 🗧 🗧 Install Policy 🖬 Actions 🗸 Search for IP, object, action, ...

🖶 asa-192.168.0.11

VPN

* Any

* Any

Destination

* Any

Services & Application

* Any

* Any



No.

1

2

Name

asa-drop-192.168.0.10-

to-192.168.0.11

Cleanup rule

Log into SmartConsole

- Check Point Firewall Policy
- Check network objects for added hosts

Source

* Any

💻 asa-192.168.0.10

Check policies for added policy

			Check Poi Smart Co	nt — Ć nsole	7 ×	
		¢	Search 备 ⋮Ξ	¥ New… +	Objects	
		Ho	s ts asa-192.168.0.1	10	Validation	
		-	asa-192.168.0.1	11	UT	
					411	
		Q ~ /	~ Y			
s	Action		Track	Install On		
	Urop		- None	* Policy Targets		
	Urop		- None	Policy Targets		

Exercise Time!

Do Exercise 1.2 in your lab environment

- Follow the steps in the exercises
- Remember to use the IP addresses assigned to you
- The Check Point credentials differ from the standard workshop details provided.
- Click on the **Workshop access** link on the exercise page for login information.



Section 1

Exercise 1.3

Topics Covered:

- What is an IDPS?
- Snort basics
- Intro to Ansible Roles
- Running a playbook interacting with Snort





What is an IDPS?

Intrusion Detection and Prevention Systems



What do they do?

- Monitors systems and networks
- Generates logs for malicious activity or policy violations
- Attempts to stop incident
- Logs are collected centrally, typically to a SIEM
- Typically used by security operations





Snort basics

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Snort

Open Source Intrusion Detection and Prevention System



What does Snort do?

- Real time traffic analysis and packet logging on IP networks
- Content search and matching
- Service running on possible targets

Your Snort workshop instance

- Snort is installed on a RHEL instance
- RHEL instance accessed via SSH
- Ansible uses SSH connection to automate Snort





Snort Rules

Open Source Intrusion Detection and Prevention System



What are Snort rules?

- Rules determine what traffic is collected
- Rules define next step for collected traffic

Want more details on Snort rules?

► <u>Snort rule infographic</u>







Intro to Ansible Roles



Ansible security automation roles

Reusable automation actions



What are Ansible roles?

- Group your tasks and variables of your automation in a reusable structure.
- Write roles once, and share them with others who have similar challenges in front of them.

Workshop Ansible Security Roles

- Already included in security EE
- ids_config, ids_rule, log_manager



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Exercise Time!

Do Exercise 1.3 in your lab environment

- Follow the steps in the exercises
- Remember to use the IP addresses assigned to you
- Click on the **Workshop access** link on the exercise page for

login information.



Section 1

Exercise 1.4

Topics Covered:

- Intro to Automation Content Collections
- What is a SIEM?
- Introducing QRadar
- Automating your QRadar instance











Intro to Ansible Content Collections



Ansible Content Collections

Simplified and consistent content delivery



What are they?

Collections are a data structure containing automation content:

Modules, playbooks, roles, plugins, docs, tests

Workshop Ansible security collections

- Already included in security EE
- ibm.qradar, ansible.security, check_point.mgmt and more



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Certified Content Collections





90+

certified platforms



SIEM Overview

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What is a SIEM?

Security Information and Event Management



What do they do?

- Supports threat detection, security incident management
- Real-time analysis of security alerts
- Aggregates activity from multiple sources
- Mostly used by security analysts





Introducing QRadar



IBM QRadar SIEM

Security and Information and Event Management



What does it do?

- Collects, analyses and stores network data in real time.
- Provides real-time information and monitoring
- Creates alerts and offenses, and responses to network threats.

QRadar Workshop Instance

- Uses ibm.qradar collection
- Ansible connects using QRadar HTTP API



adar

IBM QRadar SIEM

Address most important security challenges

Complete Visibility Prioritized Threats Automated Investigations Proactive Hunting

Network activity Data activity Users and identities Threat intelligence Configuration information Vulnerabilities and threats Application activity Cloud platforms





Automating your QRadar instance



IBM QRadar Interface

■ IBM QRadar Security Intelligence - C	ommunity Edition	¢.
ashboard Offenses Log Activity Network A	tivity Assets Reports	System Time: 2:15 F
Show Dashboard: Threat and Security Monitoring	New Dashboard Prename Dashboard Order Dashboard Add Item •	Next Refresh: 00:00:15 📲 💋 (
efault-IDS / IPS-All: Top Alarm	My Offenses (Flow Bias (Total Bytes)
	No results were returned for this item.	
	Most Severe Offenses	
Time Series data unavailable at this time.	No results were returned for this item.	Time Series data unavailable at this time.
	Most Recent Offenses	
	No results were returned for this item.	
View in Log Activity	Top Services Denied through Firewalls (Event Count)	View in Network Activity
pp Systems Attacked (IDS/IDP/IPS)		Top Category Types
vent Count)		Category Offenses
		Application Query 0
		Host Query 0
		Network Sweep 0
	Time Series data unavailable at this time.	Mail Reconnaissance 0
		Unknown Form of Recon 0
Time Series data unavailable at this time.		Top Sources
		No results were returned for this item.

Platform

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Verify Changes in the UI

	Display: Rules V Group: Select a group.		Groups Actions	 Revert Rule 	DDoS	View the	e IBM App Exchange for mo	vre	
My Offenses	Rule Name 🔺	Group	Rule Category	Rule Type	Enabled	Response	Event/Flow Count	Offense Count	Oriç
	DDoS Attack Detected	D\DoS	Custom Rule	Event	True	Dispatch New Event	0	0	Modified
II Offenses	DDoS Events with High Magnitude Become Offen	D\DoS	Custom Rule	Event	True		0	0	System
3v Category	Load Basic Building Blocks	System	Custom Rule	Event	True		0	0	System
by calegoly	Potential DDoS Against Single Host (TCP)	D\DoS	Custom Rule	Flow	False	Dispatch New Event	0	0	Modified
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cues									

Exercise Time!

Do Exercise 1.4 in your lab environment

- Follow the steps in the exercises
- Remember to use the IP addresses assigned to you
- QRadar credentials differ from the standard workshop

username and password

• Click on the **Workshop access** link on the exercise page for login information.


Ansible security automation workshop

Section 2

Security personas

Ansible Security Automation Use-Cases



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Security Personas Overview



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Section 2

Security Personas



Security Operator

Toolset

Firewalls, PAM, IDPS

Tasks

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- Manage, configure security devices
- Escalate security events to analyst

Challenges

Attacks more frequent and sophisticated



Security Analyst

Toolset

► SIEM, SOAR

Tasks

- Analyze and coordinate remediation
 Challenges
- Attacks more frequent and sophisticated



Chief Information Security Officer

Resources

- Conferences, papers, analyst reports
 Tasks
- Oversee security operations
- Direct and manage security strategy

Challenges

Multiple, siloed security teams



Section 2

Exercise 2.1

Topics Covered:

- What is investigation enrichment?
- Lab scenario overview

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What is investigation enrichment?

Collate, investigate and build context for security anomalies



What is investigation enrichment?

- Process of adding contextual information to security events
- Vital for effective security response
- Typically performed by security analyst
- Events redirected to a SIEM
- Ansible security automation enables programmatic redirection

Lab Scenario

- You, the security analyst, is informed of a security anomaly
- You need to gather events from devices and investigate the event







Investigation Enrichment Scenario overview







Investigation Enrichment



Platform

Investigation Enrichment



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Investigation Enrichment



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Investigation Enrichment



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Exercise Time!

Do Exercise 2.1 in your lab environment

- Follow the steps in the exercises
- Remember to use the IP addresses assigned to you



Section 2

Exercise 2.2

Topics Covered:

- Introduction to automation controller
- What is threat hunting?
- Lab scenario overview









Introduction to Automation controller







What is Automation controller?

Automation controller is a UI and RESTful API allowing you to scale IT automation, manage complex deployments and speed productivity.

Automation controller provides

- Role-based access control
- Push-button deployment access
- All automations are centrally logged
- Powerful workflows match your IT processes



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Platform

Anatomy of an Automation Job













Automation controller features



Inventories

Inventory is a collection of hosts (nodes) with associated data and groupings that Automation Controller can connect to and manage.

- Hosts (nodes)
- Groups
- Inventory-specific data (variables)
- Static or dynamic sources





Credentials

Credentials are utilized by Automation Controller for authentication with various external resources:

- Connecting to remote machines to run jobs
- Syncing with inventory sources
- Importing project content from version control systems
- Connecting to and managing network devices

Centralized management of various credentials allows end users to leverage a secret without ever exposing that secret to them.

red	entials		
	Name 🔻 Q	Add Delete	1-5of5 ▼ < >
	Name 1	Туре	Action
	Ansible Galaxy	Ansible Galaxy/Automation Hub API Token	đ
	azure_credential	Microsoft Azure Resource Manager	/ B
	registry.redhat.io credential	Container Registry	/ B
0	Tower Credential	Red Hat Ansible Automation Platform	/ B
		Mashina	4 . 6



Project

A project is a logical collection of Ansible Playbooks, represented in Ansible Automation Controller.

You can manage Ansible Playbooks and playbook directories by placing them in a source code management system supported by automation controller, including Git, Subversion, and Mercurial.

Projects				
□ Name ▼ Q	Add Delete			1-4 of 4 💌 🔇
Name †	Status	Туре	Revision	Actions
>	Successful)	Git	cf402be 📗	12 <i>#</i>
> Webdev Git Repo	Successful	Git	82dafae 🏙	C2 //
> 🗌 Webops Git Repo	Successful	Git	47c5109 📕	72 Ø
> O Workshop Project	Successful	Git	fe1f099 🏨	C2
			1-4 of 4 items 💌 🔍	< 1 of1page >

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Job Templates

Everything in automation controller revolves around the concept of a **Job Template**. Job Templates allow Ansible Playbooks to be controlled, delegated and scaled for an organization.

A Job Template requires:

- An **Inventory** to run the job against
- A Credential to login to devices.
- A Project which contains Ansible Playbooks

Create New Job Template			5
Name *	Description	Job Type * ③	Prompt on launch
٥		Run	•
Inventory * ③	Project * ⑦	Execution Environment ③	
۹	Q	Q	
Playbook * ③			
Select a playbook 👻			
Credentials ③			Prompt on launch
Q			
Labels ③			
			-
Variables ⑦ VAML JSON			Prompt on launch
1			
2			



Expanding on Job Templates

Job Templates can be found and created by clicking the **Templates** button under the *Resources* section on the left menu.

-								
Templ	ates							
	ame •	Q Add ▼ Delete	1		1-	-6 of 6	• <	
		Name 1	Туре 🗍	Last Ran 🗍	Actions			
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>		Deploy Webapp Server	Workflow Job Template	8/16/2021, 11:47:51 AM	7	q	A	٥
>		INFRASTRUCTURE / Turn off IBM Community Grid	Job Template			q	A ⁿ	ق
>	0	Install Apache	Job Template	8/16/2021, 11:03:50 AM		q	M	<u>ال</u>
>		Node.js Deploy	Job Template	8/16/2021, 11:47:51 AM		q	ø	۵
>		Web App Deploy	Job Template	8/16/2021, 11:47:33 AM		Ŧ	gr.	Ø

Executing an existing Job Template

Job Templates can be launched by clicking the **rocketship button** for the corresponding Job Template

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Templ	ates					5
	ame •	✓ Q Add ✓ Delete			1-6 of 6	- < >
		Name 1	Туре 1	Last Ran 1	Actions	
>	0	Create index.html	Job Template	8/16/2021, 11:37:51 AM	P	/ #
>		Deploy Webapp Server	Workflow Job Template	8/16/2021, 11:47:51 AM	V 4	/ #
>		INFRASTRUCTURE / Turn off IBM Community Grid	Job Template		P	/ #
>		Install Apache	Job Template	8/16/2021, 11:03:50 AM	P	/ 0
>		Node.js Deploy	Job Template	8/16/2021, 11:47:51 AM	q	/ 0
>		Web App Deploy	Job Template	8/16/2021, 11:47:33 AM	ą	/ 0
				1-6 of 6 items 🔹 🔍	< 1 of1pa	ige > >>

2,



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Creating a new Job Template (1/2)

New Job Templates can be created by clicking the **Add button**

				•			
ates							
ame 🕇	✓ Q Add ✓ Delete			1-	6 of 6	• <	
	Name †	Туре 🗘	Last Ran 1	Actions			
	Create index.html	Job Template	8/16/2021, 11:37:51 AM		¥	an an	Ľ
	Deploy Webapp Server	Workflow Job Template	8/16/2021, 11:47:51 AM	°5°	¥	d'	l
	INFRASTRUCTURE / Turn off IBM Community Grid	Job Template			4	de la	Į
	Install Apache	Job Template	8/16/2021, 11:03:50 AM		ę	A ¹	U
	Node.js Deploy	Job Template	8/16/2021, 11:47:51 AM		4	(III)	l
_	Web App Depley	Job Template	8/16/2021 11:47:33 AM		-	A	1
		ates Ime <	ates Ime Add Delete Name 1 Create index.html Job Template Deploy Webapp Server Workflow Job Template INFRASTRUCTURE / Turn off IBM Community Grid Job Template Install Apache Job Template Job Template Job Template	ates Ime Add Type Type Last Ran Ime Type Last Ran Last Ran Ime Type Last Ran Voitfilow Job Template 8/16/2021, 11:47:51 AM Last Ran Last Ran	ates me Mame 1 Type 1 Last Ran 1 Actions Create index.html Job Template 8/16/2021, 11:37.51 AM Deploy Webapp Server Workflow Job Template 8/16/2021, 11:37.51 AM INFRASTRUCTURE / Turn off IBM Community Grid Job Template 8/16/2021, 11:37.50 AM Install Apache Job Template 8/16/2021, 11:37.51 AM	ates me Ime Ime </td <td>etes</td>	etes

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Creating a new Job Template (2/2)

This **New Job Template** window is where the inventory, project and credential are assigned. The red asterisk * means the field is required .

plates				
eate New Job Ter	nplate			
Name *		Description	Job Type * 💿	Prompt on laur
	A		Run	
Inventory * 🗇	Prompt on launch	Project * ⑦	Execution Environment ③	
Q		Q	٩	
Select a playbook	•			Prompt on laur
٩				
Labels 💿				
Variables ⑦ YAML JSON]			Prompt on launch
1				
2				



Surveys

Controller surveys allow you to configure how a job runs via a series of questions, making it simple to customize your jobs in a user-friendly way.

An Automation controller survey is a simple question-and-answer form that allows users to customize their job runs. Combine that with controller's role-based access control, and you can build simple, easy self-service for your users.

Survey Preview	×
First Line *	
Second Line *	



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Creating a Survey (1/2)

Once a Job Template is saved, the Survey menu will have an **Add**

Button

Click the button to open the Add Survey window.

Back to Templates Details Access No	ptifications Schedules Jobs Survey	
uestion *	Description	Answer variable name * 💿
What is your favorite color?		Blue
nswer type * 💿	Required	
Text		
linimum length	Maximum length	Default answer
D	1024	
Save Cancel		

Creating a Survey (2/2)

The Add Survey window allows the Job Template to prompt users for one or more questions. The answers provided become variables for use in the Ansible Playbook.

Back to Templates Details Access	Notifications Schedules Jobs Survey	
Question *	Description	Answer variable name * ③
Answer type * ③	Required	
Textarea	▼	Defaultanswer
0	1024	

106

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Ansible Automation

Using a Survey

When launching a job, the user will now be prompted with the Survey. The user can be required to fill out the Survey before the Job Template will execute.

Launch I Creat	e index.html	×
	What is the hanner text?	
2 Preview		
		<i>k</i>
		\wedge



What is threat hunting?


Threat hunting Proactively defend your environment



What is threat hunting?

- Proactive tasks such as triage, identifying new threats.
- Updates from security bulletins and signature manipulation
- Correlation of events to create new alerts
- Typically performed by security operators and analysts
- Requires multiple tools.

Lab Scenario

- You're the security operator in detect a firewall policy violation
- Then, we are the security analyst who needs to correlate events and investigate



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Threat hunting Scenario overview

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Exercise Time!

Do Exercise 2.2 in your lab environment

- Follow the steps in the exercises
- Remember to use the IP addresses assigned to you
- Click on the **Workshop access** link on the exercise page for

login information.



Section 2

Exercise 2.3

Topics Covered:

- What is incident response?
- Lab scenario overview

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Incident response Mitigating the damage of a security attack or breach



What is incident response?

- Remediate a cyber attack or security breach
- Mitigate the risk caused by the security event
- Involves multiple stakeholders
- Organization must have incident response plan
- Requires multiple tools.

Lab Scenario

- As SecOps, we identify events generated on IDPS.
- Events need to be escalated. Logs must be redirects to SIEM
- As the analyst, we will inspect and create a remediation plan



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Incident Response Scenario overview







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Incident Response





Incident Response





Exercise Time!

Do Exercise 2.3 in your lab environment

- Follow the steps in the exercises
- Remember to use the IP addresses assigned to you
- Click on the **Workshop access** link on the exercise page for

login information.



Ansible security automation workshop

Section 3

Wrapping up

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Wrapping up

Resources

- Free Ansible Automation Platform 2 overview course
- Ansible security automation (Overview)
- Simplify your security operations center (E-Book)
- Red Hat Ansible Automation Platform blog
- Start your Ansible Automation Platform trial



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Wrapping up

Bookmark the Github organization

- <u>GitHub organization</u>
- Examples, samples and demos
- Webinar playbooks

Ansible-security Ansible.com/			
Overview □ Repositories 13 ⑦ Packages ∧ People	e III Projects		
ids_rule Public Ansible role to manage rules and signatures for Intrusion Detection Systems ● Python ☆ 9 ♀ 5	demo-content Ansible Security demo sample playbooks and recordings. ● Jinja ☆ 4 ♀ 6	Public	People This organization has no public members must be a member to see who's a part of organization.
log_manager Public Role to manage logs in multiple firewall devices	SplunkEnterpriseSecurity Role to ship custom modules for Splunk Enterprise Security ● Python ☆ 3 ♀ 1	Public	Top languages Python Shell Jinja
ids_rule_facts Public Collect facts based on filters from IDS Provider rule definitions ● Python ☆ 2 ♀ 1	acl_manager ☆ 2 양 3	Public	reportabuse

Repositories

Q Find a repository	Туре 👻	Language 👻	Sort 👻	
				Red Hat Ansible Automation Platform



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Thank you



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