Red Hat Insights 2020-04

Remediating Configuration Issues Using Advisor and Ansible Playbooks

Create playbooks in Advisor to run with your Ansible workflow

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Create playbooks in Advisor to run with your Ansible workflow

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Abstract

Create Ansible Playbooks to automate remediation of issues identified by the Advisor service. Providing Feedback: If you have a suggestion to improve this documentation, or find an error, submit a Bugzilla report at http://bugzilla.redhat.com. Select the Cloud Software Services (cloud.redhat.com) product and use the Documentation component.

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CHAPTER 1. ADVISOR SERVICE REMEDIATIONS OVERVIEW

The Advisor service helps you resolve issues on Red Hat Enterprise Linux (RHEL) systems by providing resolution steps for each recommendation, tailored to each system. You can then remediate issues manually or create Ansible Playbooks to automate resolution procedures.

CHAPTER 2. MANUALLY REMEDIATING ADVISOR RECOMMENDATIONS

The Advisor service provides users with the steps to resolve issues manually for each rule + system pairing.

Procedure

1. Navigate to the Advisor service > Systems page and log in if necessary.
2. Locate and select the system on which to resolve the recommendations.
3. Locate and select the recommendation to resolve.
4. Expand the description, scroll past **Detected issues**, and view the specific **Steps to resolve** the recommendation on that system.
5. Follow the **Steps to resolve** to remediate the issue on the system.

CHAPTER 3. CREATING ANSIBLE PLAYBOOKS TO AUTOMATE REMEDIATIONS

Advisor service users can create Ansible Playbooks to automate the remediation of recommendations.

NOTE

Look for an Ansible icon, which indicates whether there is a playbook available for a specific rule + system pairing. A blue Ansible icon indicates that a playbook is available. A grey icon with a line through it indicates that a playbook is not available.

Procedure to create a playbook to remediate an individual recommendation on systems impacted by it

1. Navigate to Advisor service > Recommendations and log in if necessary.
2. Locate and click on the recommendation to resolve.
3. In the **Affected systems** list, check the box next to each system you want to add to the playbook.
4. Click **Remediate**.
5. Select whether to add the remediations to an existing or new playbook and take the following action:
    a. Click **Existing Playbook** and select the desired playbook from the dropdown list, OR
    b. Click **Create new Playbook** and add a playbook name.
    c. Click **Next**.
6. Review the information in the summary.
    a. Scroll to the bottom of the summary and toggle **Auto Reboot** if available and desired.
    b. Click **Create**.

Verification steps

1. Select **Remediations** in the Red Hat Insights services menu.
2. Locate the playbook you just created and check the box next to it.
3. Download the playbook using the **Download playbook** link.

Procedure to create a playbook to remediate multiple recommendations on an individual system.

1. Navigate to Advisor service > Systems and log in if necessary.
2. Locate and select the system for which to create the playbook.
3. Click the check box next to each recommendation you want to resolve.
4. Click **Remediate**.

5. Select whether to add the remediations to an existing or new playbook and take the following action:

    a. Click **Existing Playbook** and select the desired playbook from the dropdown list, OR

    b. Click **Create new Playbook** and add a playbook name.

    c. Click **Next**.

6. Review the information in the summary.

    a. Scroll to the bottom of the summary and toggle **Auto Reboot** if available and desired.

    b. Click **Create**.

CHAPTER 4. REFERENCE MATERIALS

To learn more about the Advisor service, see the following resources:

- *Assessing Red Hat Enterprise Linux (RHEL) Configuration Issues Using Red Hat Insights*
- *Generating Advisor Service Reports*
- Red Hat Insights Documentation
- Red Hat Insights Product Support page

CHAPTER 5. IMPORTANT CHANGES WITH THE 2020-04 RELEASE OF RED HAT INSIGHTS

The 2020-04 release of Red Hat Insights includes significant changes to the application features and services.

Changes to the Red Hat Insights application

The Red Hat Insights application now includes the services that were previously bundled with the Cloud Management Services for RHEL application, and were part of the Red Hat Smart Management bundle, along with Red Hat Satellite.

The former cloud management services, plus a couple of new services, are now included in the value that Insights brings to each Red Hat Enterprise Linux (RHEL) subscription.

Insights Advisor

The tools and capabilities that constituted Red Hat Insights prior to this release are now available as the **Advisor** service. The *rules* that have always been the currency of Insights are now called Advisor **Recommendations**.

Insights security rules have moved

The CVE security rules that were previously curated by the Insights rules team are now included with all other Red Hat CVEs in the Vulnerability service. Security rules are high profile CVEs, some of which have been through the Customer Security Awareness Program. They are identifiable in the Vulnerability service by a security rule icon. You can also filter security rules in the Vulnerability service.

Services included with Red Hat Insights

The services included with Red Hat Insights in the 2020-04 release are:

- **Advisor.** Identify and fix configuration issues that can negatively impact the availability, performance, stability, and security of RHEL systems.
- **Vulnerability.** Assess and monitor the exposure of your RHEL environment to CVEs and security rules.
- **Compliance.** Assess and monitor the compliance of your RHEL systems with SCAP security policies.
- **Patch.** Enable consistent patch workflows for RHEL systems across the open hybrid cloud.
- **Drift.** Compare system configurations of a system over time, or to other systems and baselines, to identify discrepancies in your environment and perform drift analysis.
- **Policies.** Evaluate and react to system configuration changes in your environment.

The integrated tools that work with each of the services above are:

- **Inventory.** Topological inventory of RHEL systems under Red Hat Insights management
- **Remediations.** Repository of Ansible Playbooks that you create and manage using Red Hat Insights
- **Subscription Watch.** Comprehensive, product-by-product, account-level subscription reporting service across hybrid cloud deployments

Resources

- Red Hat Insights Product Support page
- Red Hat Insights Documentation
- Red Hat Insights Release Notes
- Red Hat Insights blog channel