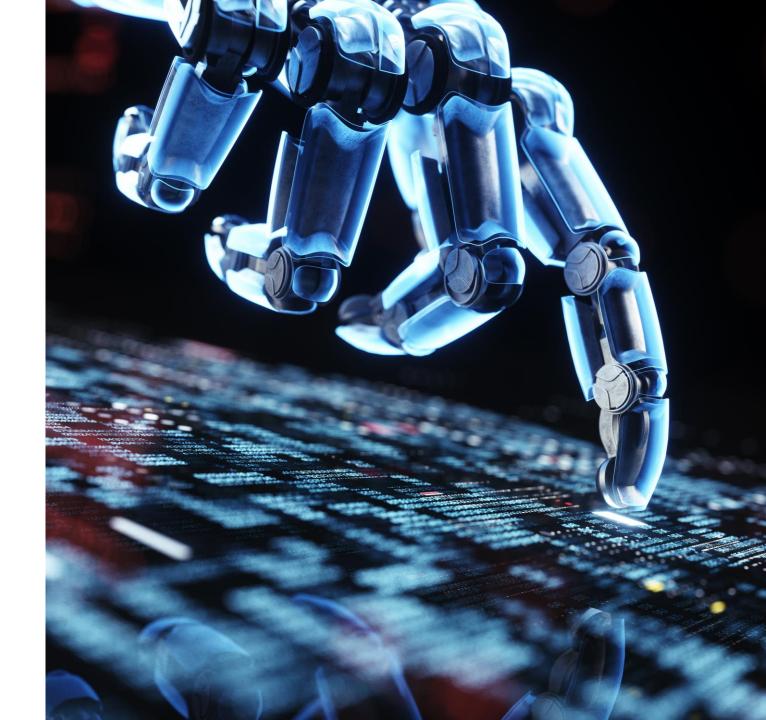


Agenda

- · Remediation Phase (Continued)
 - Day 60
 - · Alerting
 - Day 90
 - Automation
 - Autopilot
 - · Automated Reports
- Next Steps

Day 60 Remediations (continued): Set up Alerting

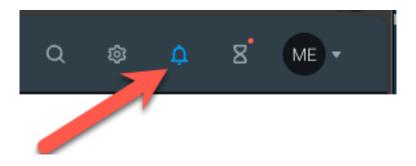


Alert Types

- · Rule Based
 - Activity taking place for the first time
- Statistical Anomaly Based
 - · Tasks with unusual number, results, timing or types
- Permissions Analytic Based
 - · Any of the findings from the Permissions Analytics Report
- Activity Based
 - · Customizable logic rules. Ex: (Any failure on this crown jewel resource)

Recommended Alerts

 Click the bell icon in the upper right corner of the Permissions Management portal to access the alerting menu

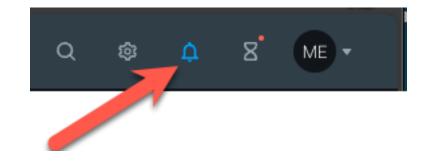


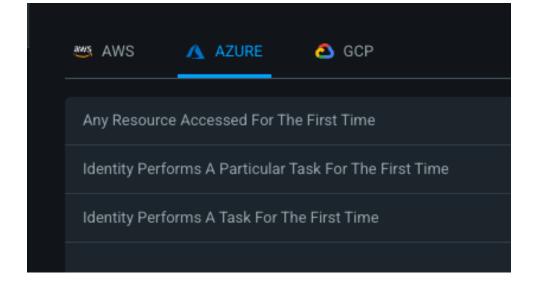
Recommended Alerts – Rule-Based Anomaly

 Click the bell icon in the upper right corner of the Permissions Management portal to access the alerting menu

There are 3 types of rule-based

anomaly triggers:





Recommended Alerts – Rule-Based Anomaly

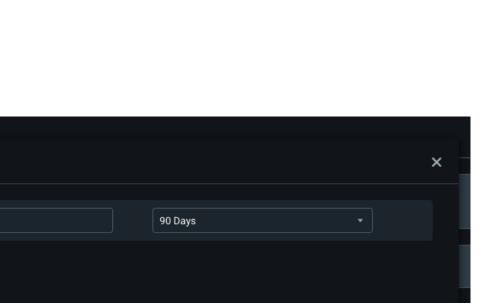
Azure - Identity Performs Task for the First Time

Time Interval

Authorization Systems

Configuration

- Choose the rule type you'd like to create. Recommended to start with "Identity Performs Task for the First Time"
- Choose your authorization system(s)
- Choose the time period to evaluate:



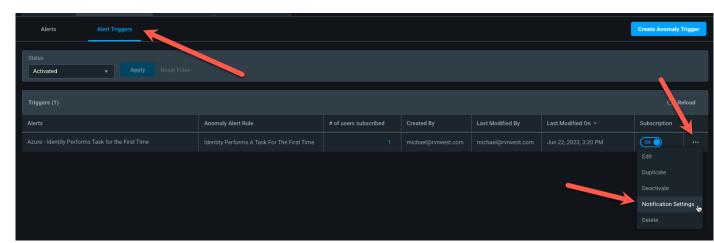
Azure - Identity Performs Task for the First Time

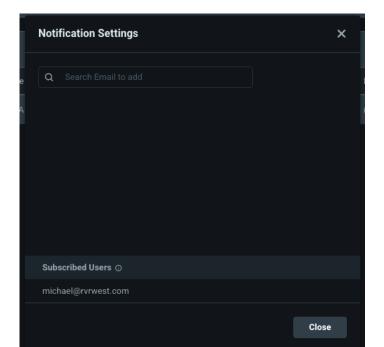
☐ All

✓ ► All Azure Subscriptions

Recommended Alerts – Rule-Based Anomaly

- Go to the Alert Triggers tab, click on the 3 dots menu on your new trigger, and choose Notification Settings:
- Choose which admins should receive the alerts:
- Repeat the process for other authorization systems





Recommended Alerts – Statistical Anomaly

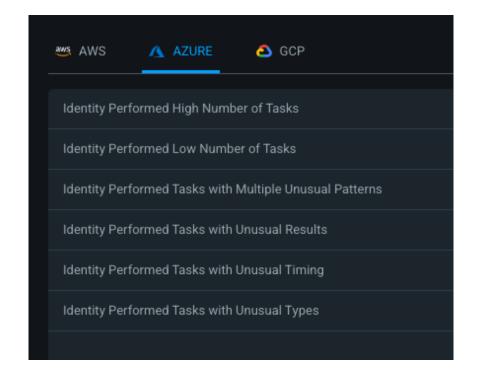
 Go to the Statistical Anomaly tab, Alert Triggers, and choose Create Alert Trigger:



Recommended Alerts – Statistical Anomaly

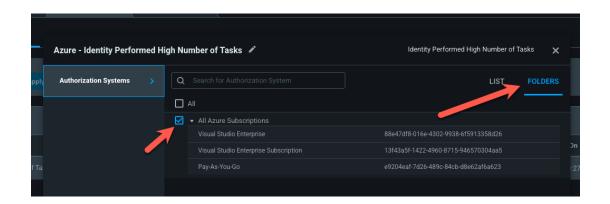
- Go to the Statistical Anomaly tab, Alert Triggers, and choose Create Alert Trigger:
- There are 6 kinds of Statistical Anomaly Alerts you can create.
 Recommended to start with these:
 - · Identity Performed High Number of Tasks
 - Identity Performed Tasks with Multiple Unusual Patterns
 - · Identity Performed Tasks with Unusual Results
 - Identity Performed Tasks with Unusual Timing
 - · Identity Performed Tasks with Unusual Types

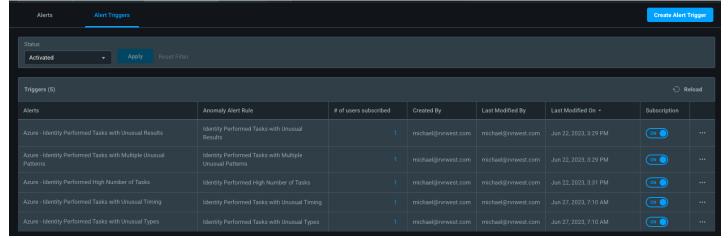




Recommended Alerts – Statistical Anomaly

- It's recommended that you set up your alert triggers based on folders rather than picking and choosing individual subscriptions
- When completed, you should have at least 5 alert triggers:





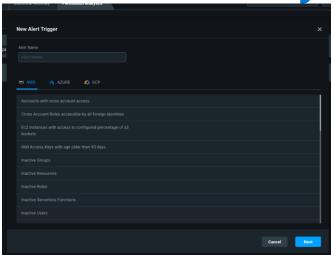
Recommended Alerts – Permissions Analytics

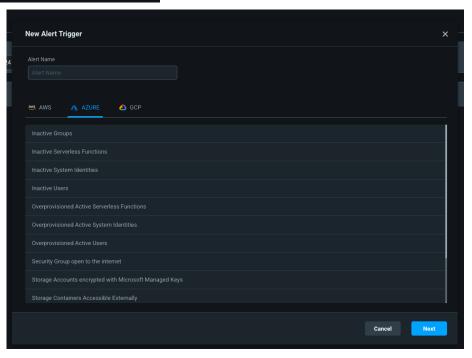
 Go to the Permission Analytics tab, Alert Triggers, and choose Create Alert Trigger:



Recommended Alerts – Permissions Analytics

- There are different permissions analytics for AWS, Azure, and GCP
- Create the alerts on the following pages for each provider, to start





Recommended Alerts – Permissions Analytics

Recommended initial set of alerts, start here at minimum, add additional Permissions Analytics alerts depending on need:

AWS

- Overprovisioned Active Roles
- Overprovisioned Active Users
- · Roles with Privilege Escalation
- Service Accounts with Privilege Escalation
- · Super Roles
- Super Users
- Users with Privilege Escalation
- (Optional, depending on use of IDP for MFA) User with no MFA

Azure

- Overprovisioned Active
 System Identities
- Overprovisioned Active Users
- · Super System Identities
- Super Users

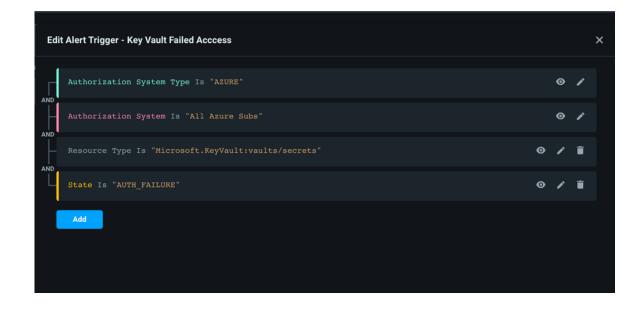
GCP

- Overprovisioned Active Service Accounts
- Overprovisioned Active Users
- Service Accounts with Privilege Escalation
- Super Service Accounts
- Super Users
- Users with Privilege Escalation

Recommended Alerts – Activity Alerts

- Can customize which specific resources to generate alerts on
 - · Resource Type
 - · Resource Name
 - Task Name
 - · Username
 - State
 - · Authorization Failure, Error, Success
- Focus on crown jewel type resources
 - Ex: Failure Access to KeyVault





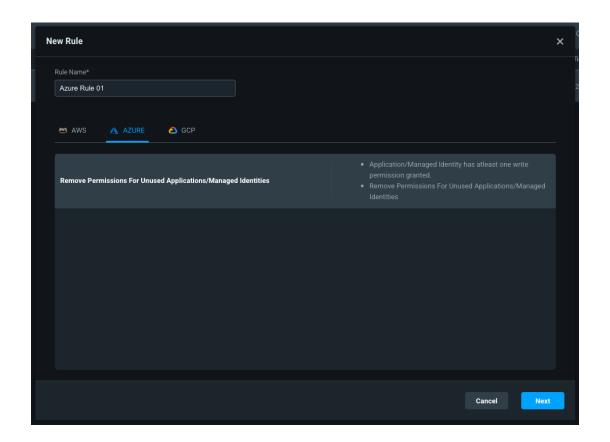
Day 90 Remediations: Leverage Automation



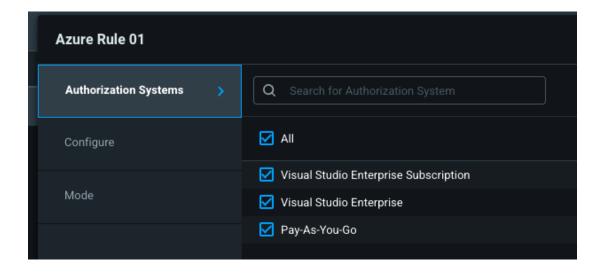
Automation – Autopilot

- Autopilot allows you to automate the right-sizing of permissions, remove unused roles, and remove unused role assignments / permissions
- · Rules are based on inactivity remember that EPM has 90 days of activity data, so inactivity will be based on 90 days of usage or less
- · Available Rules
 - · AWS-Delete Unused Roles
 - Azure-Remove Permissions For Unused Applications/Managed Identities
 - GCP-Remove Permissions for Unused ServiceAccounts

- · Go to the Autopilot tab
- · Click the New Rule button
- Select Azure as the auth system type
- Provide a name and click Next



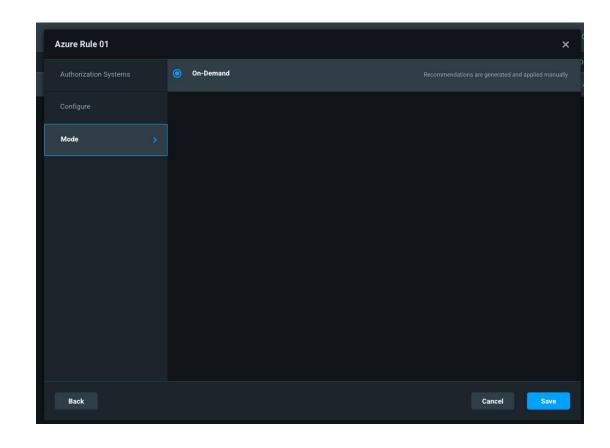
 Select your authorization system(s). You may select one or more than one



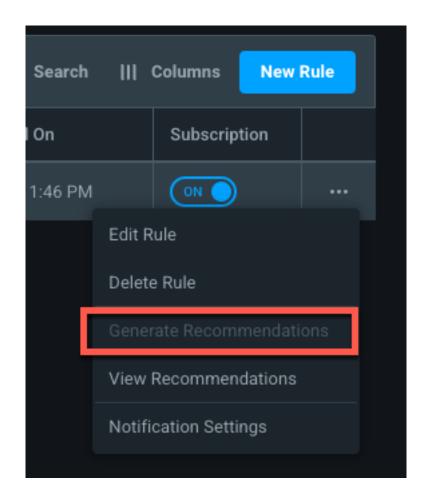
 Choose the rule's inactivity timer threshold



- Choose the mode, typically ondemand
- · Click Save
- Repeat process for other authorization systems of same type or different types
 - Autopilot rules are slightly different between AWS, Azure, and GCP, but fundamentally do similar things

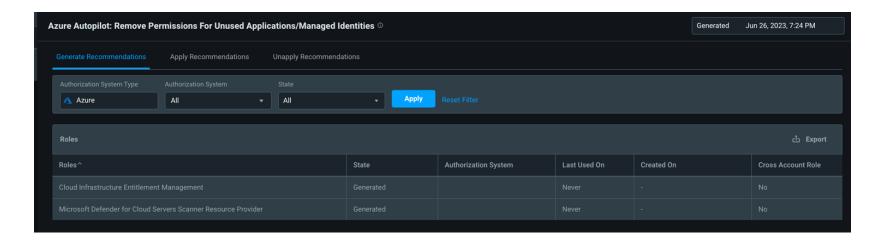


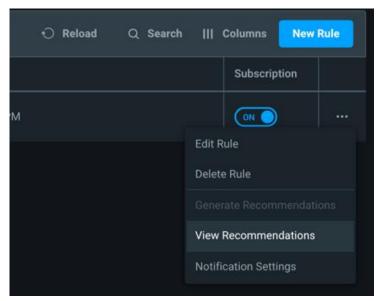
- Click the Generate
 Recommendations button on
 the 3 dots menu to kick off the
 recommendations process
- · If you onboarded EPM recently then no recommendations may be available for 30/60/90 days, depending on how you configured the Autopilot rule



View Auto Pilot Recommendations

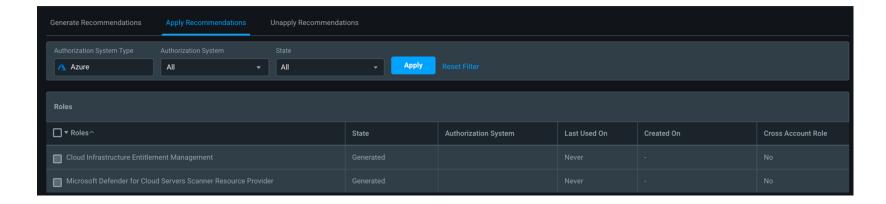
- · Click the View Recommendations button on the 3 dots menu.
- The recommendations for that rule will be shown.
 - Example below these are the apps whose permissions would be removed



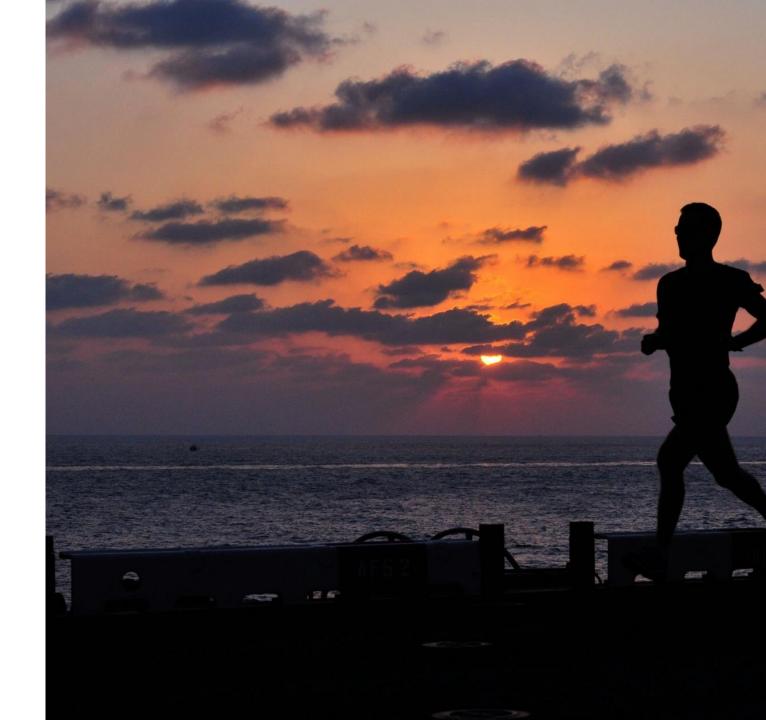


Apply Recommendations

- After confirming the changes, check the box to which recommendation you want to apply, then hit "Apply" button on bottom
 - Note: A Controller will need to be setup to be able to make changes in the Authorization System



Next Steps



Where do we go from here?

- · Finish remediating the most critical items found in the POC
- · SOC leverage data and alerts for investigation of incidents
- · JIT Privilege Elevation for critical resource access
- · Start to remediate most over permissioned users/groups/apps
- Monitor PCI Score, did it go up or down?
- · Continue to use Entra Permissions Management
 - · We'll follow up in about 3 weeks
 - · What did you like?
 - · What needs to be improved?
 - What else did you find?
- · Would a roadmap conversation be helpful?

Thank you!



