

# Getting Remediation Done

A Guide to  
Effective Execution

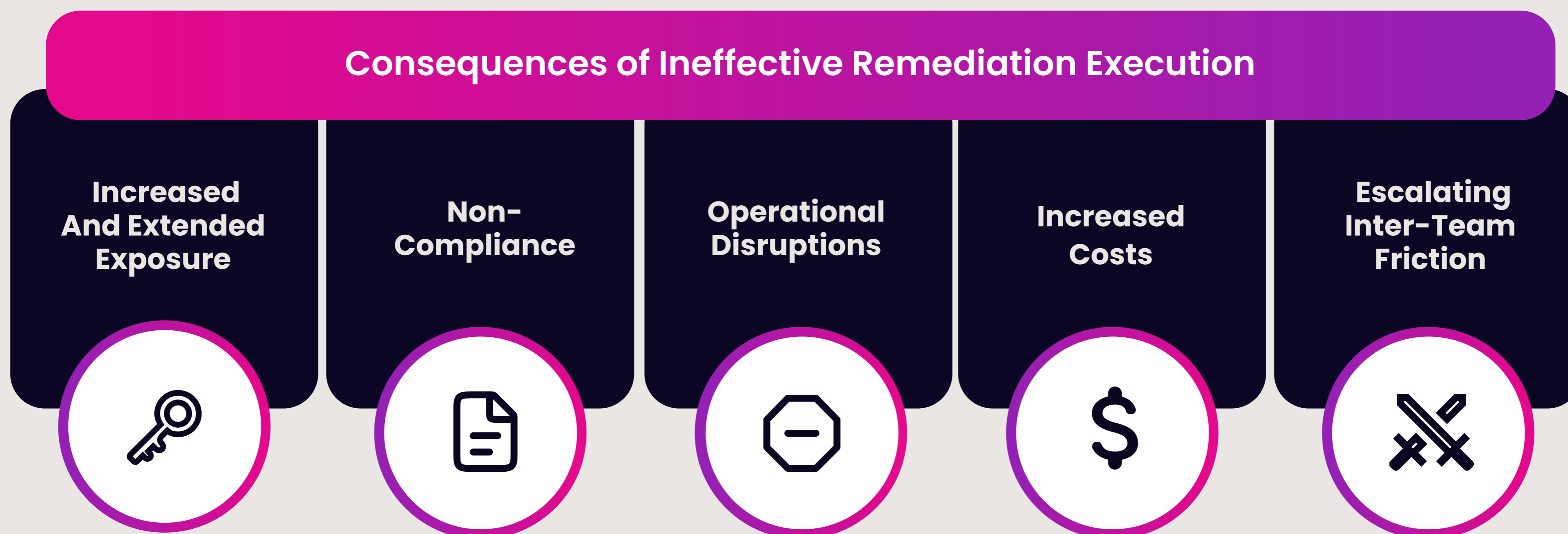
 GUIDE

Remediation execution is the most crucial - yet often the toughest - part of vulnerability management. While identifying risks and creating plans are necessary steps, ensuring those plans are put into action without delays or missteps is where many organizations falter. The gap between planning and execution leaves businesses vulnerable, no matter how strong their strategy may be.

Security teams encounter an overwhelming volume of findings and testing tool overload, making it difficult to focus on what matters most. But once the noise has been filtered out, and the to-do list is built, the challenge becomes making sure remediation tasks are completed efficiently and communicated clearly across all teams. Without proper execution, vulnerabilities linger, exposing the organization to unnecessary risks and compliance issues.

Effective execution requires more than just a solid plan - it demands coordination, prioritization, and clear ownership at every stage.

## Consequences Of Ineffective Remediation Execution



When remediation plans aren't properly executed, organizations face increased risks and operational challenges. One of the most immediate impacts is the increased and extended exposure to threats. When vulnerabilities are not remediated in a timely manner, the risk of exploitation grows, giving attackers more time to find and capitalize on weak points in the system.

Operating outside of agreed-upon SLAs and internal company standards is another consequence of ineffective remediation execution. These internal benchmarks are designed to ensure that vulnerabilities are addressed within a specified timeframe, and failing to meet them can lead to delays and increased risk exposure. Not adhering to these internal expectations can also create trust issues and friction between teams, as well as with leadership, making it more difficult to maintain accountability and cohesion across the organization.

Operational disruptions are another consequence of ineffective remediation. Exploited vulnerabilities often lead to downtime, system outages, and other interruptions that can halt business operations. These disruptions not only harm productivity but can also damage customer relationships and trust.

As vulnerabilities become more nuanced, the complexity of remediation increases, thereby escalating the costs associated with addressing them. What might have been a relatively simple fix can quickly snowball into a resource-intensive process as new vulnerabilities pile onto existing ones.

Lastly, ineffective remediation execution also heightens existing tensions between security, development, and operations teams. These groups already face challenges in aligning priorities (more on that later), and stalled remediation efforts only further fuel frustrations. As teams struggle to stay on the same page, trust erodes, and the collaborative effort needed for effective vulnerability management becomes even harder to achieve. This friction ultimately slows down progress and makes it harder to execute remediation tasks swiftly and efficiently.

## Common Challenges In Remediation Plan Execution

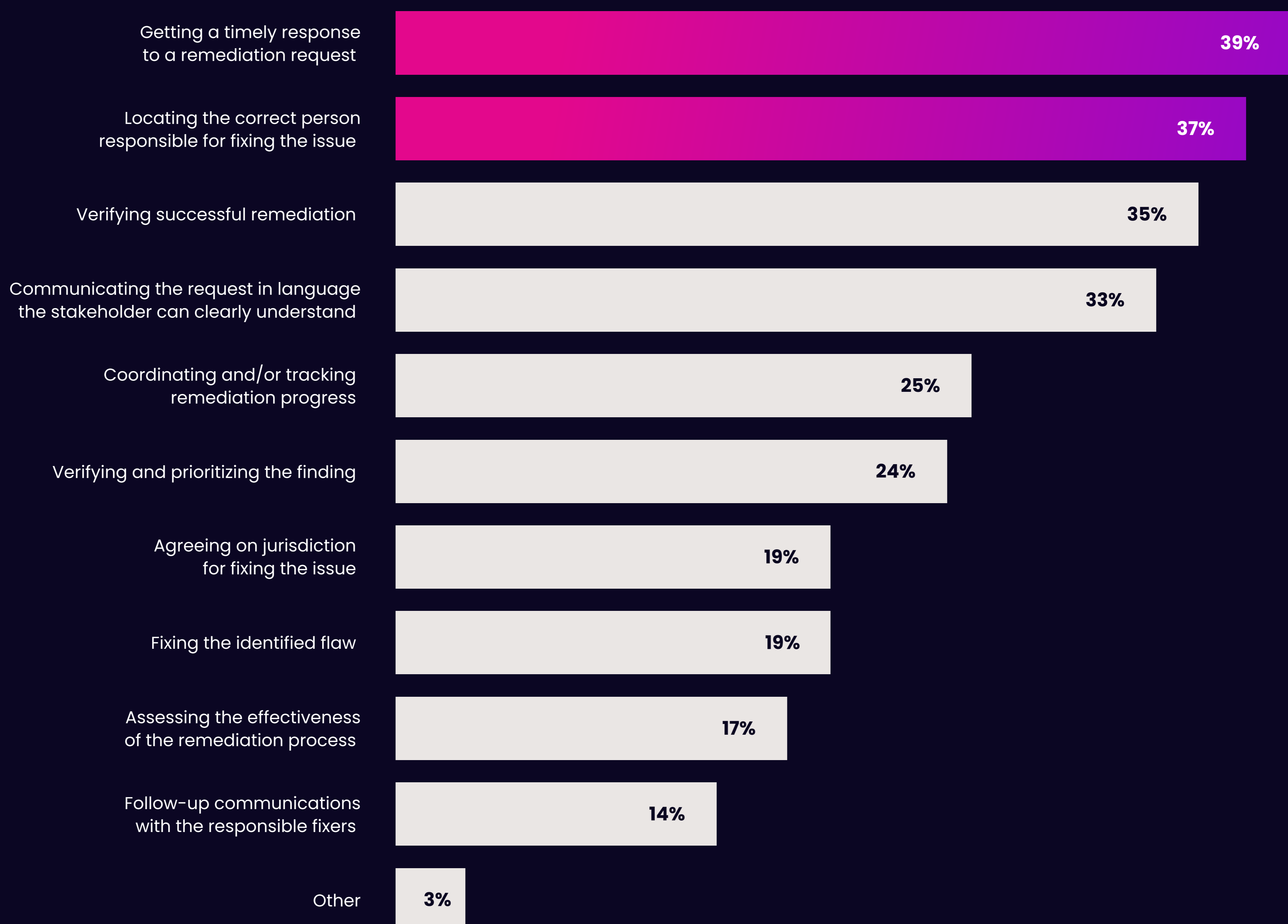
Even with a strong remediation plan in place, executing that plan is often fraught with obstacles. These challenges, whether rooted in coordination, communication, or task management, can significantly delay remediation efforts and increase risk exposure. Understanding these challenges is the first step toward overcoming them and ensuring that remediation tasks are completed effectively.

## COORDINATION DIFFICULTIES BETWEEN TEAMS

One of the most common issues stems from the fact that security and fixing teams often operate in silos. Each team has its own priorities, tools, and workflows, which can create roadblocks when it comes to coordinating remediation efforts. Moreover, security teams may struggle to identify the right person to handle a specific task, while fixing teams are left juggling requests from multiple sources without clear ownership. These challenges are reflected in DarkReading's report, [The State of Risk Reduction: A Need for Speed](#), where the top two most time consuming aspects of vulnerability remediation are getting a timely response to a remediation request, and locating the correct person responsible for fixing the issue.

### Time-consuming Aspects of Vulnerability Remediation

Which of the following are the most time-consuming aspects of coordinating vulnerability remediation with stakeholders outside the security team?



**Note:** Maximum of 3 responses allowed.

**Data:** Dark Reading survey of 108 IT cybersecurity professionals at companies with 100 or more employees.

Additionally, the variety of tools used by different teams adds another layer of complexity. Each team relies on its own toolsets, which may not integrate smoothly, leading to inefficiencies and a lack of alignment. Compounding this is the issue of conflicting priorities across development, operations, and security. Fixing teams are often swamped with their own backlogs and other operational tasks, leaving remediation requests sidelined or delayed, further widening the gap between security and other departments.

### COMMUNICATION GAPS

A lack of clear and actionable communication often compounds the coordination difficulties. Security teams tend to send an overwhelming amount of information to fixing teams, but without proper context, it's difficult for them to determine what is truly important. Missing details like the business impact, affected systems, or the severity of a vulnerability make it challenging for fixing teams to understand the priority level of each task.

As a result, fixing teams struggle to distinguish between high-priority vulnerabilities that pose a real threat and lower-impact issues. This lack of clarity not only slows down the remediation process but also leads to confusion about which tasks should be addressed first, increasing the risk of critical vulnerabilities remaining unaddressed.

### TICKET AND TASK MANAGEMENT ISSUES

Effective ticket and task management is critical for keeping remediation efforts on track, but this too presents challenges. With fixing teams overwhelmed by an unprioritized backlog, it's difficult to manage tasks, allowing important vulnerabilities to slip through the cracks, which further increases risk exposure.

To complicate matters, fixes are sometimes marked as complete before they've been properly verified. This leads to vulnerabilities being marked as resolved when, in reality, they remain unmitigated. The lack of a verification process creates confusion and delays, as security teams must revisit these issues and ensure that the proper fixes have been implemented.

## Overcoming Remediation Plan Execution Challenges

Addressing the obstacles to effective remediation execution requires a strategic approach that emphasizes collaboration, communication, and efficiency. By streamlining processes and leveraging the right tools and technologies, organizations can ensure that their remediation plans are not only well-coordinated but also actionable.

### EFFECTIVE COLLABORATION AND COMMUNICATION

The foundation of successful remediation execution lies in clear ownership and responsibility for each task. Without defined roles, tasks can fall through the cracks, leaving vulnerabilities unresolved. Ensuring that each remediation request has a designated owner is key to preventing confusion and delays.

Equally important is providing said owner with detailed, actionable vulnerability data. This data should include the business impact, affected systems, and severity of each vulnerability to ensure the teams have all the necessary context. By sending this information through the tools that fixing teams already use, not only is the process more efficient – since teams aren't forced to switch between tools – but it also minimizes friction. Fixing teams aren't burdened with yet another tool pushed onto them by the security team, making them more inclined to collaborate.

Further, establishing bi-directional communication between security and fixing teams is essential for keeping everyone aligned on remediation progress. Regular updates and clear channels for feedback allow teams to address issues as they arise, ensuring that remediation tasks move forward without unnecessary delays.

## Seemplicity Recommends:



- ▶ Use ticketing systems, like Jira and Trello, to assign dedicated owners to each remediation task.
- ▶ Use templates within your ticketing systems to automatically populate important details like business impact, affected systems, and severity level.
- ▶ Use a centralized tool that integrates with fixing teams' workflows to enable bi-directional communication between stakeholders.

### BALANCE THE BACKLOG

Managing the backlog of remediation tasks is another critical challenge, particularly for overwhelmed fixing teams. To avoid overburdening them with too many requests at once, it's important to deliver remediation requests in digestible formats and manageable chunks. In doing so, security teams can reduce the risk of overload and ensure that fixing teams can address vulnerabilities without feeling buried under a mountain of tasks.

Prioritizing tasks based on the fixing teams' workload and capacity is crucial to maintaining balance. By aligning remediation requests with the available resources, teams can work more effectively, reducing inter-team friction and ensuring that the most critical vulnerabilities are addressed first.

## Seemplicity Recommends:



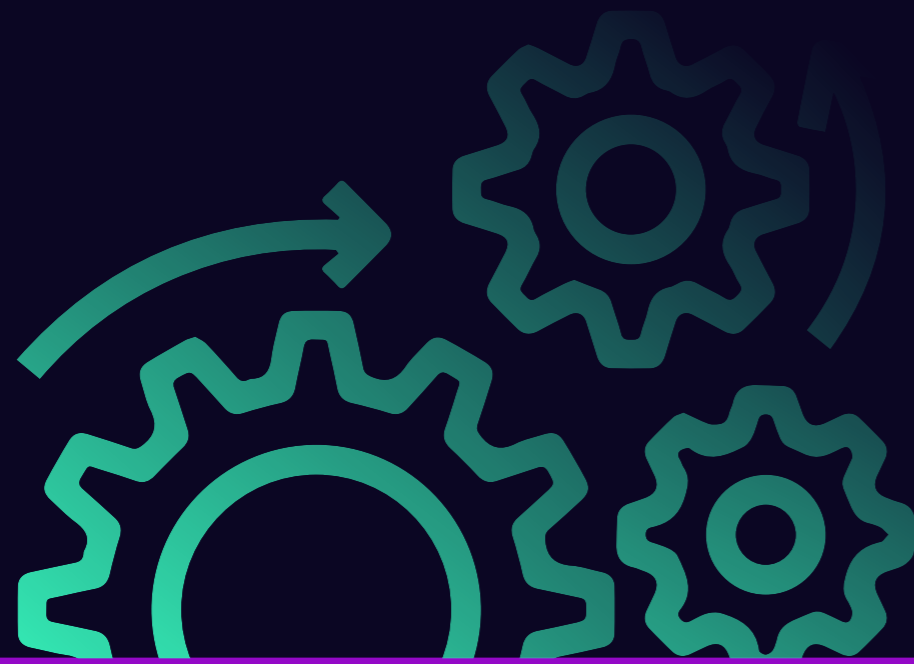
- ▶ Group findings by common fix, aggregating them into a single remediation task to reduce the number of tickets created.
- ▶ Create task-focused tickets that outline the specific steps needed to resolve the issue.
- ▶ Set limits on how many tasks each fixing team can take on at a time, using workload tracking features in tools like Jira to track the number of open tasks per team.
- ▶ Prioritize the remediation tasks in each fixing team's backlog for effective resource allocation.

### LEVERAGE AUTOMATION

Automation plays a key role in reducing the manual overhead associated with managing remediation tasks. Automating the prioritization and assignment of these tasks ensures that vulnerabilities are addressed in the right order, with minimal manual intervention. This not only speeds up the remediation process but also allows security teams to use their already-strained manual resources elsewhere.

By automating workflows, organizations can further streamline the process, ensuring that each remediation request is delivered to the right person with the necessary context. Automated workflows help ensure consistency and accuracy across teams, making it easier to execute remediation plans efficiently and without unnecessary delays.

## Seemplicity Recommends:



- ▶ Incorporate information from the configuration management database (CMDB) and organizational responsibility context to automatically identify the task's relevant owner.
- ▶ Integrate vulnerability management tools with ticketing systems to automatically generate remediation tasks.
- ▶ Establish predefined rules to automatically prioritize remediation tasks based on internal and external risk context.

## ESTABLISH AND TRACK PERFORMANCE METRICS

Measuring the effectiveness of remediation execution is crucial for continuous improvement and ensuring that vulnerabilities are being addressed in a timely and efficient manner. By tracking key performance indicators (KPIs), organizations can gain insights into how well their remediation processes are working and where adjustments may be needed. Below are some of the essential KPIs that can help teams evaluate the success of their remediation efforts.

### Mean Time to Remediate (MTTR)

MTTR is one of the most critical metrics for assessing remediation efficiency. It tracks the average time it takes to fix a vulnerability from the moment it's identified until it's fully remediated. A shorter MTTR indicates that vulnerabilities are being addressed quickly, minimizing the window of exposure to potential attacks. Monitoring MTTR helps organizations gauge their response times and identify bottlenecks in the process.

### SLA Compliance

Service Level Agreement (SLA) compliance measures how well an organization adheres to the predefined timeframes for resolving vulnerabilities. These SLAs are typically set based on the criticality of the vulnerabilities and are crucial for ensuring that high-priority issues are addressed promptly. Tracking SLA compliance helps ensure that teams are meeting the expectations set for remediation timelines, particularly for high-risk vulnerabilities.

## Remediation Backlog Size

The size of the remediation backlog reflects how many vulnerabilities are awaiting resolution. A growing remediation backlog can be a red flag, indicating that fixing teams are overwhelmed or that prioritization processes are ineffective. Monitoring the backlog helps identify resource constraints and highlights the need for better task management or workflow improvements to keep vulnerabilities from piling up and increasing risk.

## Validation Accuracy

Validation accuracy tracks the percentage of vulnerabilities that have been properly remediated and validated before being marked as resolved. This KPI ensures that vulnerabilities aren't prematurely closed without proper validation, which can lead to lingering security risks. By focusing on validation accuracy, organizations can reduce the chance of vulnerabilities slipping through the cracks and improve overall remediation quality.

## Final Thoughts: Driving Effective Remediation Execution

Effective remediation execution is essential for maintaining a strong security posture. Identifying vulnerabilities and building a remediation plan are only the first steps – ensuring those vulnerabilities are properly addressed through coordinated and efficient execution is where real security gains are made. By overcoming the common challenges associated with remediation execution, teams can drastically reduce their threat exposure and ensure that critical vulnerabilities are addressed before they can be exploited.

Focusing on clear communication, leveraging automation, and maintaining a balanced workload for fixing teams are all key strategies that not only enhance remediation efficiency but also improve overall team collaboration. When these execution challenges are addressed, organizations can expect more streamlined workflows, enhanced productivity, faster response times, and ultimately a stronger security posture that is capable of keeping pace with the organization's vulnerability backlog.

By optimizing the execution phase of remediation, organizations are better equipped to handle the complexities of modern cybersecurity challenges. The path to streamlined and scalable remediation is paved with clear ownership, actionable insights, and seamless coordination across teams.



For a more in-depth look at how to streamline and accelerate remediation efforts, read our [Solution Brief on Remediation Execution](#).

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