

Intelligent asset discovery and *assessment*

Gain complete visibility to
reduce costs, mitigate risk,
and accelerate modernization

You can't control what you can't see

As enterprises work toward their transformation goals, they're adopting hybrid cloud, modernized data centers, and diverse technology ecosystems. But while these transformations fuel innovation and business agility, they also lead to asset sprawl, visibility gaps, and unmanaged risk.

Most enterprises lack a comprehensive single source of truth for their technology estate. With limited visibility, underutilized and duplicated assets consume valuable resources. Poor visibility hinders control of the technology estate, creating security blind spots and increasing exposure to compliance risk. And a reactive approach to asset management, with IT teams jumping from one fire to the next, damages operational efficiency and leaves little time for strategic initiatives.

Gain complete asset visibility

A proactive, structured approach to asset discovery and assessment provides the foundation for control and optimization throughout the technology estate. With a comprehensive, accurate, and real-time view of hardware, software, networks, and cloud assets, organizations can make informed decisions to accelerate modernization, reduce costs, and mitigate risk.

Read on to discover:

- The risks and costs of poor asset visibility
- A framework for a proactive approach to asset discovery and assessment
- A structured process for gaining complete visibility of all technology assets

Half of organizations *don't have accurate visibility* into their cloud instances. Only 27% have visibility of licenses deployed in the cloud.¹

And 50% of technology and finance executives say *underutilized or overprovisioned resources* are one of the top reasons their on-demand tech budgets overrun. Almost as many (45%) cite *shadow IT and unmanaged resources* as a major cause of overspending.²

¹Flexera 2025 State of ITAM Report, Flexera, 2025:
<https://info.flexera.com/ITAM-REPORT-State-of-IT-Asset-Management>

²The on-demand tech paradox, Capgemini Research Institute, 2025:
<https://www.capgemini.com/wp-content/uploads/2025/09/Final-Web-Version-Report-Cloud.pdf>





The asset visibility challenge

Modern enterprises depend on a vast array of technology assets that extend far beyond traditional data centers. These expanded asset estates include on-premises hardware, virtualized and containerized environments, cloud workloads, IoT and OT systems, endpoint devices, and third-party Application Programming Interface (API)s and connected assets.

The colossal scale and complexity of these landscapes make complete visibility extremely hard to achieve. The problem is compounded by rapid self-service provisioning and removal of resources in the cloud. In hybrid and multi-cloud setups common in modern organizations, assets can also move dynamically between environments, leading to inventory drift.

For organizations with large IoT or OT estates, the challenge multiplies, with critical assets often remaining invisible to IT teams, which creates significant security, operational, and compliance risks.

Traditional approaches leave too many gaps

In the face of this sprawling complexity, many organizations still rely on manual reconciliation. These processes are time-consuming and error-prone, and typically involve multiple, uncorrelated discovery tools that result in duplication and inaccuracies. Even when information is accurate, it's often out of date by the time reconciliation is complete.

Other organizational issues can also obscure asset visibility. In large enterprises, it's not uncommon to see inconsistent ownership and governance;

without clear accountability for asset maintenance and updates, resources are wasted and security gaps widen. Meanwhile, mismatched inventories and missing or incomplete records create compliance and audit-readiness gaps.





Taming the complexity with intelligent, proactive asset discovery and assessment

A more joined-up and proactive approach to asset discovery and assessment programs addresses these gaps through automation, integration, and governance, enabling organizations to:

- **Mitigate risk:** Visibility and control over every asset helps identify shadow IT, outdated hardware, and noncompliant software. Armed with this knowledge, organizations enhance their security posture and audit preparedness.
- **Reduce costs:** Identifying unused resources or over-licensed software enables organizations to eliminate redundancy, consolidate workloads, and optimize license usage. Accurate asset data also enables hardware rationalization and power usage optimization, further reducing costs while increasing IT sustainability.
- **Accelerate modernization and transformation:** Complete and accurate asset inventories provide vital support for smooth cloud migrations and consolidation initiatives.

A proven framework for intelligent asset discovery and assessment

To enable a structured and proactive approach to asset visibility and control, we recommend a four-phase framework that covers every aspect of technology, process, and governance.

 Phase 1 Strategy and scoping	<ul style="list-style-type: none"> • Define the scope of the asset estate to be assessed, including on-premises and cloud environments, network devices, OT, IoT, and endpoints. • Establish goals and success metrics, such as coverage percentage, accuracy, or update frequency. • Identify data sources, including the configuration management database (CMDB), network scans, endpoint detection and response (EDR) tools, and cloud APIs. • Map the program's stakeholders across infrastructure management, security, compliance, and finance.
 Phase 2 Discovery and data collection	<ul style="list-style-type: none"> • Deploy multi-method discovery, including agent-based, agentless, passive network, and API-based. • Integrate data from endpoint & SNOW tools (system center configuration manager (SCCM), CMDB), cloud platforms (such as AWS Config, Azure Resource Graph, and GCP APIs), and virtual environments (such as VMware, OpenShift, and Nutanix reports). • Collect data on asset attributes, including configuration, utilization, ownership, and software versions.
 Phase 3 Functional assessment and normalization	<ul style="list-style-type: none"> • Correlate and de-duplicate asset data across sources to gain a single source of truth. • Pinpoint gaps in the technology estate by identifying missing, obsolete, or orphaned assets. • Conduct assessments of configuration compliance and vulnerability, and benchmark against security frameworks from CIS, NIST, or ISO. • Prioritize remediation actions by assigning risk, asset lifecycle, and criticality scores.
 Phase 4 Governance and continuous improvement	<ul style="list-style-type: none"> • Define ownership and accountability across IT ops, security, and finance teams. • Establish a cadence for continuous discovery, which should be conducted daily or in real time. • Integrate discovery and assessment results into the CMDB, security tools, and IT Service Management (ITSM) activities. • Facilitate continuous improvement by conducting periodic audits and establishing feedback loops.

See and control every asset with Asset Discovery and Assessment by Capgemini

At Capgemini, we apply the four-phase framework to deliver a structured service that enables organizations to gain visibility and control of every asset throughout complex hybrid environments – on-premises, in the cloud, and at the edge.





Asset Discovery and Assessment by Capgemini provides a single source of truth for all IT and digital assets, enabling improved governance and compliance posture, enhanced operational efficiency, and support for cost optimization and sustainability initiatives.

The service covers a series of key components that combine to deliver comprehensive asset visibility:

- **Discovery:** Automated scanning of physical, virtual, and cloud assets using agent-based and agentless methods.
- **Classification:** Categorization of assets by function, ownership, and business impact.
- **Assessment:** Evaluation of asset health, performance, compliance, and security vulnerabilities.
- **Reporting and visualization:** Real-time dashboards for systems management, KPI tracking, obsolescence alerts, performance monitoring, and optimization opportunity identification.
- **Continuous visibility:** Regular updates to maintain data accuracy and ensure readiness for audits and modernization initiatives.

Measurable business value

Asset discovery and assessment helps organizations achieve meaningful business outcomes.³

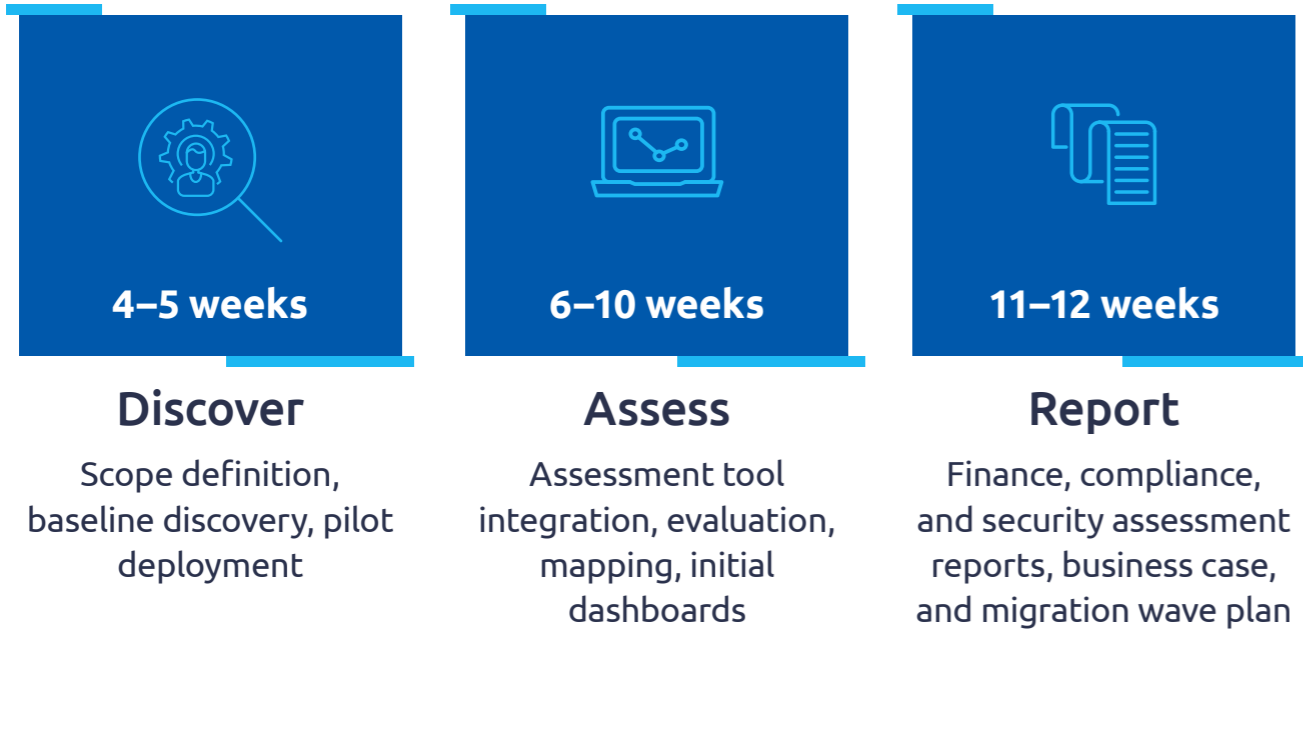
 Operational Efficiency	<ul style="list-style-type: none"> • 100% visibility of on-premises and cloud assets • 30–40% reduction in manual reconciliation effort • 25% faster time-to-deploy for modernization projects
 Financial Performance	<ul style="list-style-type: none"> • 10–15% annual IT cost optimization through the removal of redundant assets and software licenses⁴ • 20% reduction in audit-related penalties or rework
 Risk And Compliance	<ul style="list-style-type: none"> • 60% faster vulnerability identification and remediation • 45% higher audit-readiness and compliance accuracy
 Sustainability	<ul style="list-style-type: none"> • 15–20% energy savings through rationalized hardware utilization

³Outcomes based on Capgemini industrial practice and execution.

⁴CIO Playbook for Smarter IT Cost Management, Gartner, 2026: <https://www.gartner.com/en/information-technology/topics/cost-optimization>

Asset Discovery and Assessment: Implementation roadmap

Gain comprehensive asset visibility and take decisive action.



Regain control with visibility of every asset

If you can't see an asset, you can't secure it or optimize it. But with the visibility provided by comprehensive and continuous discovery and assessment, you can close security and compliance gaps, avoid wasted IT spend, and ensure every asset contributes to improved business performance.

Asset Discovery and Assessment by Capgemini even the most complex technology estates can become powerful foundations for enterprise transformation.

To learn more about how we can help you gain comprehensive asset visibility and build a stronger digital foundation for your business, *get in touch with our experts.*

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About Capgemini

Capgemini is an AI-powered global business and technology transformation partner, delivering tangible business value. We imagine the future of organizations and make it real with AI, technology and people. With our strong heritage of nearly 60 years, we are a responsible and diverse group of 420,000 team members in more than 50 countries. We deliver end-to-end services and solutions with our deep industry expertise and strong partner ecosystem, leveraging our capabilities across strategy, technology, design, engineering and business operations. The Group reported 2024 global revenues of €22.1 billion.

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