



Comprehensive Cost and Security Management for C2S Environments

Security Highlights

CloudTrail Integration

Leverage the strength of CloudTrail reporting. CloudCheckr parses the logs for actionable information and alerting

Security Group and Permission Mapping

CloudCheckr makes the complex problem of understanding accesses and permissions easy.

Perimeter Assessment

CloudCheckr's simple to understand presentation of your environment's perimeter ensures that there are no surprise "holes" or accesses.

Policy Checks

Daily scans of over 450 policy checks ensure that users are always aware of potential security risks and violations.

Automated Alerting

Security and event alerting ensures that even the largest environment can be comfortably managed.

Full Audit History

CloudCheckr provides instant access to a full history of resources, configurations, changes, and permissions.

Cloud Transformation Demands New Thinking

The cloud provides enormous agility to empower innovation. It also requires us to rethink much of what we do to manage and secure our environments. IT no longer controls the ordering process and resources. Users can self-provision without IT permission or knowledge. Resources no longer have fixed costs. Instead, users are charged by the hour. To make matters more complicated, resource purchasing and allocation in a dynamic, scaling environment can be a challenge—and optimization is even harder.

Cloud agility brings risks. In the new world of ephemeral, auto-scaling infrastructure, tools that rely upon traditional techniques like port scanning and PEN testing are obsolete. Users are able to self-provision, define configurations, and scale their environments without ever interacting with the security team. This places an enormous burden on the security team. Challenges to AWS security include:

- Identifying points of exposure
- Minimizing attack vectors and surface area
- Conducting perimeter assessments of virtual private clouds (VPCs)
- Controlling IAM permissions
- Creating multiple layer of defense
- Tracking environment changes
- Monitoring threats

CloudCheckr Keeps Your C2S Cloud in Check

CloudCheckr is a cloud management platform that unifies IT, Security, & Finance teams who need to keep their cloud in check across their C2S environment. CloudCheckr turbo-charges your cloud with cost management, continuous security, resource utilization, and self-healing automation to enable operational efficiencies, reduced waste, and total governance across your environment.

CloudCheckr generates a complete picture of a user's environment which shows billing details, multi-accounts, resources, configurations, permissions, changes, and more. It then optimizes and analyzes that picture to provide actionable intelligence on costs, reserved instances, security & compliance posture and AWS resources data. CloudCheckr is delivered as an Amazon Machine Image (AMI) or on-prem software solution that integrates within your existing tools and processes, providing unified governance across your C2S.

Uncover Hidden Costs with CloudCheckr

Cloud cost management consists of two core initiatives: allocation and optimization. The AWS price list contains over 70,000 entries and even mildly inefficient purchasing can result in the doubling of operational costs. CloudCheckr helps users to properly size resources, ensure that idle resources are terminated, and buy resources in the most advantageous manner. Cost allocation presents its own challenges: self-provisioning and consolidated billing can make it virtually impossible to itemize expenses.

CloudCheckr solves this problem by connecting users, applications, departments, and business units with costs. It analyzes and dissects the AWS bill to create automated invoicing and chargebacks. It enables users to create and enforce business rules around tagging and attribution of resources. Costs become transparent and CloudCheckr allows budgets to be monitored and controlled.

CloudCheckr collects the widest possible set of AWS data streams in the industry. Using read-only access, CloudCheckr uses the AWS DBR, CloudTrail, CloudWatch, API access, Config logs, and more to generate a complete picture of a user's environment including users, resources, utilization levels, tags, and more. It then analyzes that picture to find opportunities and inefficiencies. CloudCheckr presents its results through automated reports and alerts. Users are able to access the results through dashboards, through automated outputs like emails and SNS topics, through third party tools and solutions, through its robust API, and through exportable tables and CSV files. All of this delivers users the most relevant data with the least amount of effort in the shortest period time. CloudCheckr allows users to confidently manage their costs while scaling their environment.

Continuous Security & Compliance Auditing

CloudCheckr leverages native AWS data to deliver the most robust security solution in today's marketplace. Agentless, CloudCheckr relies on AWS data sources such as CloudTrail logs, Config logs, VPC flow logs, CloudWatch metrics API calls, and more. CloudCheckr generates a complete picture of a user's environment including resources, configurations, permissions, changes, and more. It then analyzes that picture to find exposures and identify mitigation steps. CloudCheckr presents its results through automated reports and alerts. Users are able to access CloudCheckr results through its dashboards, through automated outputs like emails and SNS topics, through third party tools and solutions, through its robust API, and through exportable tables and CSV files. All of this delivers users the most relevant security data with the least amount of effort in the shortest period time.

While some cloud management platforms focus only on security monitoring and assessment, CloudCheckr also ensures compliance. Organizations can ensure they meet specific regulations including HIPAA, FISMA, PCI, and more, using CloudCheckr's benchmark reports based on the CIS Best Practices for cloud security. From technical settings for operating systems to middleware, software applications to network

Cost Highlights

Automated Chargeback

Create pre-set filters to automatically identify, group, and attribute costs for projects, applications, departments, and business units.

Resource Purchasing Recommendations

Receive detailed reports and recommendations to ensure ideal sizing and purchasing of resources.

Advanced Spend Analysis

Sophisticated cost grouping generates a comprehensive picture. Track trends in spending to create accurate future predictions.

Cost Optimization

Receive daily reporting and alerting to identify idle, underutilized, and wasted resources.

Automated Budget Alerts

Tie costs into automated budget alerts. Ensure that users and teams avoid budget surprises and overages.

Invoice Generation

Programmatically create and schedule invoices for business units, departments, and application owners.

devices, these benchmarks help ensure that de facto, best practice configuration standards are consistently met. The CIS Benchmark Report is just one of the many security checks integrated within the CloudCheckr platform. In fact, over 450 Best Practice checks are available to optimize utilization, decrease cloud spend, and ensure security.

Continuous Monitoring For C2S

The Continuous Diagnostic and Mitigation (CDM) program helps combat threats on government networks.



Key Services Within The Cloudcheckr Platform

Cost Allocation

Cost attribution is one of the largest obstacles to cloud adoption. CloudCheckr solves the problem by providing sophisticated cost allocation to enable full visibility and attribution of AWS costs. The CloudCheckr platform automatically delivers granular cost and spend reports to specific users at preset schedules. Users can also leverage its customizable tagging rules and enforcement mechanisms along with RI assignment features to ensure that all costs remain accurately allocated.

Reserved Resource Purchasing

AWS has over 70,000 individually priced service options. Making sense of these myriad choices requires systematic analysis. CloudCheckr does this through comprehensively capturing resources, usage, and pricing. CloudCheckr analyzes the data, presents multiple scenarios, and ensure that users are able to make the best possible choices to generate the largest possible savings. CloudCheckr also provides coverage for more than just EC2; users receive analysis and recommendations for RDS, ElastiCache, RedShift, and other services. Typical users save over 30% using reserved resource purchasing recommendations.

CloudCheckr supports the AWS C2S cloud and delivers a best-in-class solution to satisfy the CDM requirements including:

- Accurate Inventory of AWS IaaS assets
- Vulnerability Assessment of AWS IaaS assets
- Configuration Audit of AWS IaaS assets
- User Entitlement Assessment of AWS IaaS assets
- Get into “Secure State” of AWS IaaS assets
- Monitor for Changes to “Secure State” of AWS IaaS assets

CloudTrail Integration

CloudCheckr ingests AWS CloudTrail logs and transforms them into instantly actionable information. CloudCheckr collects all of the data, translates complex AWS terminology into commonly used terms, and presents it in a simple and accessible manner. Users can leverage CloudCheckr through preconfigured reports, searches, and alerts. CloudCheckr also enables user to perform ad-hoc searches and create customizable alerts.

Policy Checks

CloudCheckr offers a comprehensive collection of over 450 Best Practice checks. The checks come from established standards, AWS recommendations, white papers, and our in-house subject matter experts. Grouped into categories and prioritized by importance, users are able easily ensure that their infrastructure is configured properly. Configurable cross-account visibility and aggregation allows you to confidently assess their security exposure within complex deployments.

Invoicing and Chargeback

With the dynamic nature of cloud usage, invoicing is one of the most difficult tasks facing finance team. CloudCheckr simplifies the problem and allows users to automate both chargeback and invoicing with its Advanced Grouping reports and CloudCheckr's Invoice generator. Users can define the business unit, cost center, or even individual user to receive reports and invoices based upon usage. These can be automated for daily, weekly, and monthly delivery.

Cost Best Practices and Warning Reports

Managing cloud costs can be a time-consuming endeavor. CloudCheckr addresses this with its prebuilt best practice checks and cost warning reports to proactively ensure users are not unintentionally wasting resources and money. With over 200 best practices tailored to unique nature of cloud usage and with automated reports and alerts for oversized, idle, and orphaned resources, CloudCheckr ensures that users are avoiding sprawl and waste that often accompanies cloud usage. Typical users reduce cloud costs by 30% by optimizing spend and minimizing waste.

Perimeter Analysis

Perimeter security is fundamentally different within the cloud environment. Resources are dynamic. With Elastic IPs, entry and exit points changes. Instead of applying old ideas and cloudwashing a solution, CloudCheckr's addresses these challenges from the ground up. Users are able to instantly identify publicly accessible objects, their network ACL rules, subnets, and more. Results are presented hierarchically and provide for easy export.

VPC Analysis

Gain visibility inside of your VPCs. CloudCheckr enables user to identify gateways, subnets, DHCP option sets, and more. CloudCheckr also provides enhanced visibility with its Traffic Analysis and enables quick access with pre-configured common searches. CloudCheckr's summary and detail reports ensure that user are fully aware and in control of their environment.

Cost Management Benefits

Cost Allocation

Enables users to accurately charge costs within applications, departments, and units. Proper attribution of costs promotes more responsible resource usage and enables cost governance as users can accurately assess their position relative to existing budgets.

Cost Optimization

Enables users to confidently maximize scarce funding. Users can typically purchase additional resources within the same budget to increase innovation, improve functionality, and offer better service to their customers while still operating within the same cost constraint.

Invoicing and Chargebacks

Enables finance to efficiently invoice users for charges within the dynamic cloud environment. This enables the measurement of ROI and tracking of business costs and profitability.

Automated Budget Alerts

The last piece of cost governance involves visibility. Users can often be greeted with unpleasant surprises as costs often mount without warning. CloudCheckr solves this problem through its automated budget alerts. Users can set multiple thresholds across variable time-periods. Users can create alerts that are automatically delivered to project owners, application owners, management, and finance. With CloudCheckr, users are always aware of their spending and management can enforce true cost governance.

Permission and Security Groups

Tracking AWS permissions and security groups can be a full time job in the dynamic AWS environment. CloudCheckr makes it easy by automatically mapping and grouping all user accesses. The reporting and alerting allows instantaneous visibility within individual and across multiple accounts. The full history is automatically saved. Users can confidently scale their environment as CloudCheckr ensures that they retain visibility into their permissions regardless of environment size.

Automated Security Alerts

By leveraging CloudTrail and other rich AWS data sources, CloudCheckr is able to provide users with the most comprehensive group of alerts on the market. Users can rely on CloudCheckr's out of the box preset selections or employ its underlying flexibility to configure a virtually unlimited numbers depending upon their particular environment needs. With CloudCheckr, users can cut through the noise while meeting the complex demands of the dynamic cloud environment.

Complete History for Easy Forensics

The cloud is dynamic and auditing is difficult. CloudCheckr addresses this by saving a complete history of all resources, configuration, users, actions, and permissions for the life of a user's environment. The reporting makes all of this information instantly accessible in an ordered and usable format.

CloudCheckr enables users to understand their environment and exposure, identifying potential security issues and providing explanations and instructions for mitigation of risks.

Cloud Security is a Shared Model

AWS security is based upon the shared model. Amazon manages and maintains security for its foundational services. Users assume responsibility above the line.

CloudCheckr enables users to fulfill their shared security responsibilities by identifying and offering mitigation instructions for AWS C2S infrastructure.

Security Benefits

Identify Exposures

CloudCheckr collects CloudTrail data, Config logs, API information, and CloudWatch metrics. CloudCheckr then unites this data to create a complete picture of user's resources, permissions, configurations, and exposures.

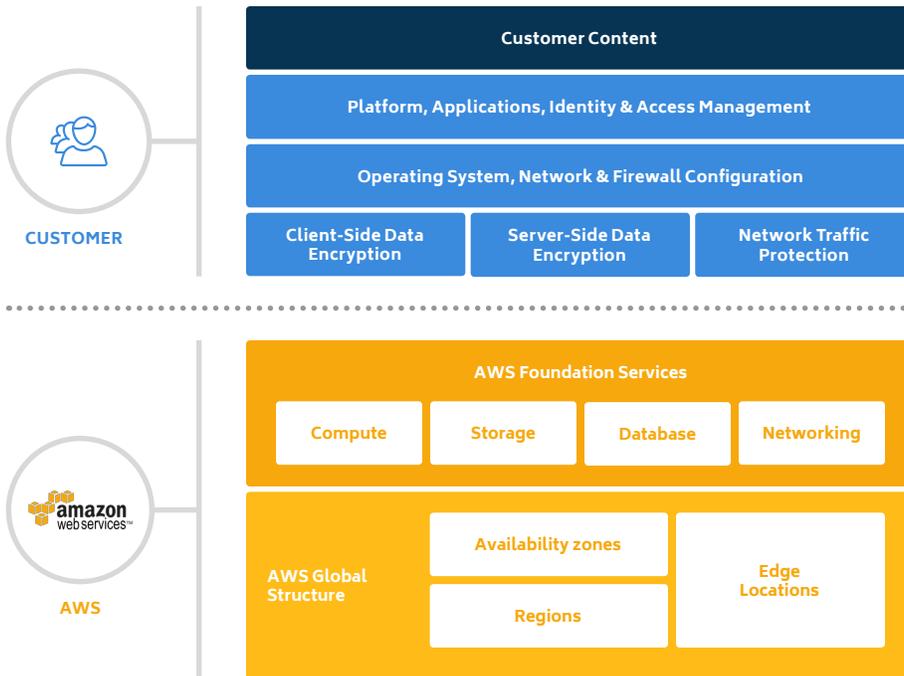
Report and Alert

Once CloudCheckr collects all of the information. It provides reports and alerts to potential vulnerabilities. CloudCheckr employs a full team of security experts to ensure that it is always applying the most current security standards. With its automated reporting, existing and new configuration and security issues are instantly visible.

Mitigate and Continuously Monitor

CloudCheckr offers detailed mitigation instructions within its checks. Users can quickly fix the issue and rely on CloudCheckr to confirm the fix and continuously scan for new and emerging issues.

Security is a shared responsibility between AWS and our customers



- Customers configure AWS security features
- Get access to a mature vendor marketplace
- Can implement and manage their own controls
- Gain additional assurance above AWS controls

- Culture of security and continual improvement
- Ongoing audits and assurance
- Protection of large-scale service endpoints

About CloudCheckr

The CloudCheckr cloud management platform unifies cost, security, and inventory management with visibility and intelligence to mitigate security risks, optimize costs, and increase operational efficiencies across cloud infrastructure. With continuous monitoring, 450 best practice checks, and built-in automation, CloudCheckr enables IT, Security, and Finance teams to manage their AWS environments with confidence. Government organizations and Global 2000 enterprises trust CloudCheckr to unify their native AWS data and deliver the most robust cloud management platform in today's marketplace.

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