



WHITE PAPER

Get to the Cloud Faster, and More Securely

As enterprises continue to migrate applications, services and workloads to the cloud, they are addressing the challenge of how to protect resources in an open, cloud environment while also securely sharing the right information. It's an opportunity to rethink how your enterprise manages Identity and Access Management (IAM) and how to ensure that your cloud migrations have the right "future-proofed" access control.

Cloud migration is here

Cloud migration is helping enterprises improve their infrastructures, as legacy applications and services are transitioned to the cloud. With that comes a focus on security, to ensure the new services are certified against emerging cloud-based security standards, and within that focus you'll find access control and authorization approaches helping lead the charge.

[Attribute-based access control \(ABAC\)](#) - also called externalized dynamic authorization - is the new proven model for access control. ABAC takes advantage of attribute values from subjects, resources, and the environment to make access control decisions based on digital policies that define how resources may be accessed. As SaaS (software-as-a-Service) and cloud-based applications become predominant in your cloud infrastructure, an ABAC model ensures that your access control (security, compliance, business) policies are centrally enforced across cloud resources.

Enterprises that implement an ABAC model using an externalized authorization management service within a cloud environment realize a wide range of benefits, from fine-grained access control to centralized digital policy management. Improved security [compliance](#), auditing, and monitoring are other compelling reasons to consider externalized dynamic authorization.

The power of policy-based access control

In addition to the benefits of centralized authorization to all the applications and cloud resources, the policy-based model for access control is powerful and can help meet even those most stringent and complex use cases. It is achieved by transforming natural language access control policies into digital policies, and then enforcing those policies through the Axiomatics Policy Server's authorization engine, which contains a centralized access control policy management store.

Commercially available cloud offerings include built-in security features that often include basic identity and access management. Using an ABAC implementation can extend this limited, out-of-the-box access control to the granularity that is needed in today's complex environment. ABAC policies can consume attributes such as the subject (e.g. identity), resource (e.g. metadata), and environment (e.g. geographic location) and the relationship between these values when performing an access control decision.

"Customers across industries are working with a range of cloud service providers, and we're able to help them ease this transition securely: maintaining the protection of assets while also ensuring information is shared with the right people, at the right time, and under the right conditions."

- David Brossard, CTO



Another benefit to ABAC in the cloud is taking advantage of having a central location where all the cloud's access control decisions take place. By integrating externalized authorization with the existing Cloud & Network Monitoring Services (e.g. Amazon's Lambda, S3, API Gateway, CloudWatch), you can collect and track metrics on virtually every access control request and decision made in the cloud. Triggers and alerts can then be implemented as well, for example, to notify someone if too many access request denials are being issued within a given period.

During the transition to a cloud environment, there is a mix of on-premise applications and cloud services, and while applications are moving to the cloud, an ABAC service can apply policies and enforce decisions within both environments, while only having to manage policies in one location. This hybrid implementation can help to ease the transition of [applications](#) into the cloud as the authorization service already exists in the cloud. For your team - this saves time, eliminates repetitive re-coding, and shifts focus to the bigger picture of the cloud transition.

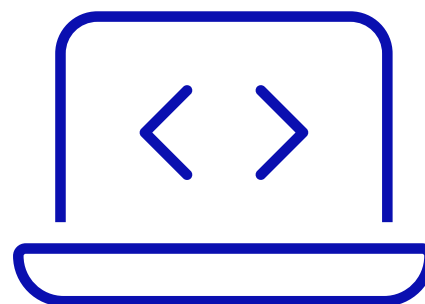
Axiomatics can help ease the burge of your enterprise migration to a cloud infrastructure, by implementing an externalized dynamic authorization framework to extend your cloud's identity and access management services, and provide fine-grained access control, tighter control of your cloud resources, and a central authorization service to log, monitor, and analyze your cloud's access control decisions.

Axiomatics provides a suite of [solutions](#) that enforce dynamic authorization—controlling access to applications, databases, APIs, [Big Data](#) and [microservices](#); on premise, in the cloud or within a hybrid implementation—from one centrally managed point. This approach is both policy and context based to help ensure only the right users have access when authorized. Advanced auditing and reporting tools also ensure compliance is met on an ongoing basis, while real-time controls allow policy changes to be instantly enforced to meet rapidly-changing regulatory environments.

Take the next steps

Learn how a security vendor can help secure your access control while allowing you to focus on your core business initiatives.

[Meet with our solution experts for a demo](#) of our Axiomatics Authorization Management Platform and discuss how our approach can save your organization time and money.



Stay connected and informed

Get the latest insights, announcements, and assets from our thought leaders and customer success team:



[Blog articles](#)



[Press releases and announcements](#)



[Resources, solution briefs, and tools](#)



[Join us on LinkedIn](#)



[Subscribe to our LinkedIn Newsletter](#)



[Subscribe to our YouTube channel](#)

Axiomatics - a Leonardo Company is the originator and leading provider of runtime, fine-grained authorization delivered with attribute-based access control (ABAC) for applications, data, APIs, and microservices.

The company enables enterprises to effectively and efficiently connect Axiomatics' award-winning authorization platform to critical security implementations, such as Zero Trust or identity-first security. The world's largest enterprises and government agencies continually depend on Axiomatics' award-winning authorization platform to share sensitive, valuable, and regulated digital assets – but only to authorized users and in the right context.

Follow us on LinkedIn: <https://linkedin.com/company/axiomatics>

Join us on YouTube: <https://youtube.com/@axiomatics>

Learn more or request a demo of our solution:

axiomatics.com

info@axiomatics.com

US Office: +1 (312) 374-3443 | Europe Office: +46 8 51 510 240