

CIEM

What to expect from an IGA Solution

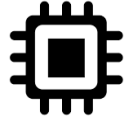


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SELF DRIVEN IAM

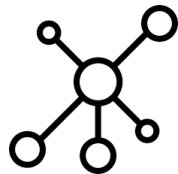
Cloud Infrastructure – Key Ingredients



Compute



Storage

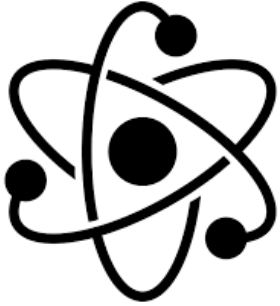


Networking

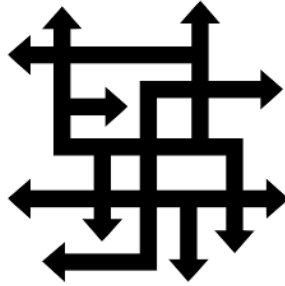


Services

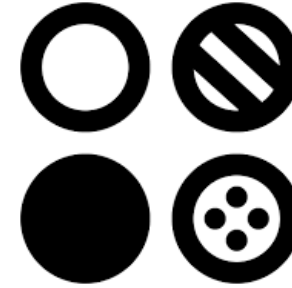
Multi Cloud Environment - Challenges



Dynamicity



Complex
Permission Set

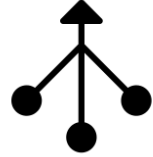


Inconsistent Security
Model

We need a "standardized" way to manage these environments.

Governance Strategy – 5 Steps

Step 1



Develop Business Context

Develop Business Context

Organizational Unit

Use organizational structure (business unit, region, teams)

Process

Leverage organizational business processes (HR Processes like on-boarding, Vendor Management, Procurement scheduled company audits, Engineering activities like DevOps etc)

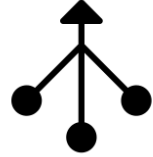
Program/Project

Time-bound initiatives (marketing campaigns, Engineering Proof-of-Concepts, joint technical ventures with partners etc)

One or more above context can serve as operational foundation to manage cloud infrastructure

Governance Strategy – 5 Steps

Step 1



Develop Business Context

Step 2



Design Entitlement Catalog

Design Entitlement Catalog

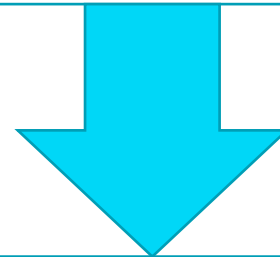
IGA Solution Entitlement & Policy Catalog

Business Context

- ❖ Organizational Units
- ❖ Process
- ❖ Program/Project

Roles

- ❖ Administrator
- ❖ Owner
- ❖ Security Auditor
- ❖ Contributor
- ❖ Viewer



Security

Permissions

Roles

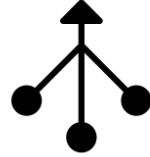
Policies

Services



Governance Strategy – 5 Steps

Step 1



Develop Business Context

Step 2



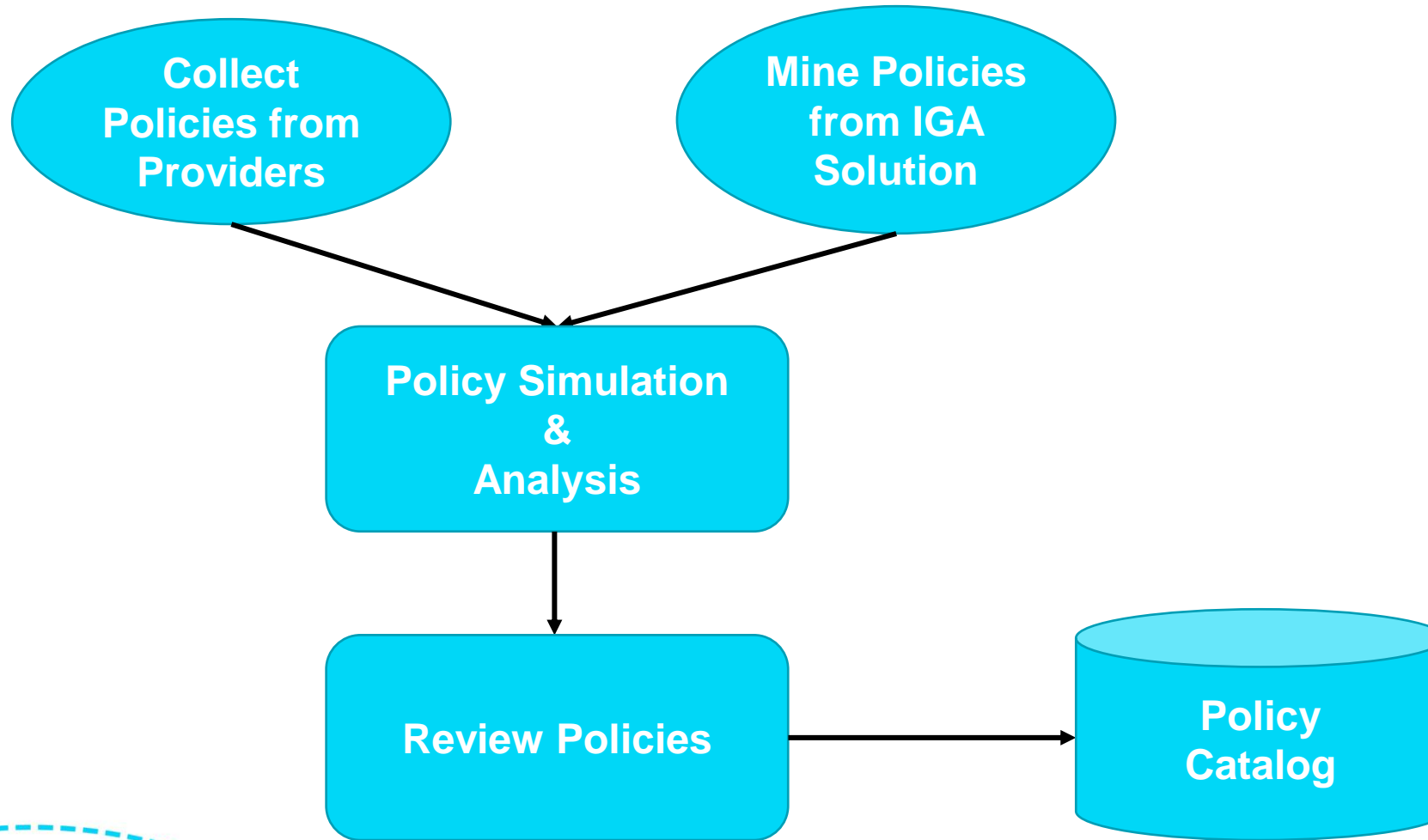
Design Entitlement Catalog

Step 3



Design Policy Catalog using Policy Intelligence

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CIEM – Governance Ready

IGA Solution Entitlement & Policy Catalog

Business Context

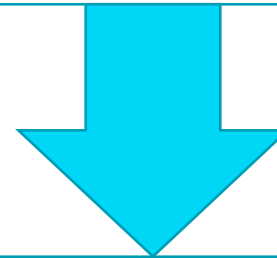
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- ❖ Process
- ❖ Program/Project

Roles

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- ❖ Security Auditor
- ❖ Contributor
- ❖ Viewer

Policies

- ❖ Should Have
- ❖ Can Have
- ❖ Should Not Have
- ❖ Should Not have (exception)



Security

Permissions

Roles

Policies

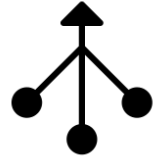
Services



Cloud
infrastructure

Governance Strategy – 5 Steps

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Develop Business Context

Step 2



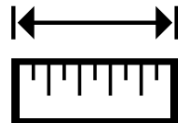
Design Entitlement Catalog

Step 3



Design Policy Catalog using Policy Intelligence

Step 4



Measure Usage, Excess Entitlements,
Effective permissions & Cost

Metrics

Usage

When something was last used, frequency of usage, what scenarios it gets used

Revoke unused entitlements

Grant when required ONLY

Excess Entitlements

What entitlement should not be granted?

Revoke entitlements that should not be given

Effective Permissions

How does cumulative permissions look like? Does it result in toxic combination?

Eliminate Toxic Combination

Cost

What Services are costing more? Are we within budget?

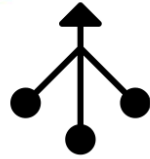
Find optimizations

Improve Capacity Planning

Metrics will provide continuous visibility into your Cloud Infra Entitlement landscape

Governance Strategy – 5 Steps

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Develop Business Context

Step 2



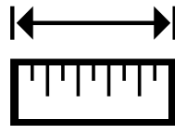
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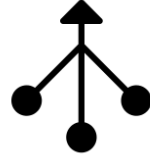
Refine Entitlements and Policies

Refine Entitlements & Policies

- Dormant Entitlements need to be taken out
- Policies can become obsolete
- Review changes to entitlements and policies

Governance Strategy – 5 Steps

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Develop Business Context

Step 2



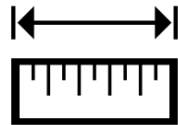
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Design Policy Catalog using Policy Intelligence

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Measure Usage, Excess Entitlements, Effective permissions & Cost

Step 5



Refine Entitlements and Policies

Recommendations

- Set up Business Context for Cloud Infrastructure usage
- Define/Refine Entitlement Model for Business Context
- Integrate findings from Policy Simulation, Intelligence tools from Cloud Infrastructure providers with IGA Solution's Policy Engine (Test your Policies!)
- Track Metrics around usage, excess entitlements, effective permissions and cost
- Develop shared responsibility model



THANK YOU!