

CSA-Cloud Security Alliance-

*Monitoring and controlling authority to handle the security issues related to Cloud Platform

Threats to Cloud Security

*data loss/lose control on the data

*Account Hijacked

Remedial(Authentication and authorization rule)

*Shared Technology related issues.(multitenancy)(Hypervisor,VM modification,DDOS,Improper Isolation)

Remedial: proper monitoring and scanning and proper access control.

*Insecure API

*Abuse and Nefarious use of Cloud/Malcious Insider :

Remedial :

how CSP is accesing your resources,

local and global authorization rule/policies must be framed properly

Remedial action

- *Secure Methodology to access cloud Resources
- *Strong Authentication and access control rules
- *Vulnerability scanning
- *Log analysis
- *Monitoring and auditing
- *SLA
- *Proper Isolation/compartmentalization
- *data Categorization and Protection

- *Monitoring
- *proper compartmentalization
- *proper installation
- *strong authentication and access control
- *
- *SLA/policies
- *vulnerability scanning

Identity and Access management(IAM)

It is primary mechanism for *

- *Authentication

- *Access control on data

- *Authorization control

- *Maintain roles

- *Comply with Regulation

- *

useful for

- *Automation

- *Portability

- *Build trust

IDaaS

Identity refers to set of attributes associated with something and make it recognizable. All objects may have same attributes, but their identity cannot be the same. This unique identity is assigned through unique identification attribute.

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Registration

Authentication

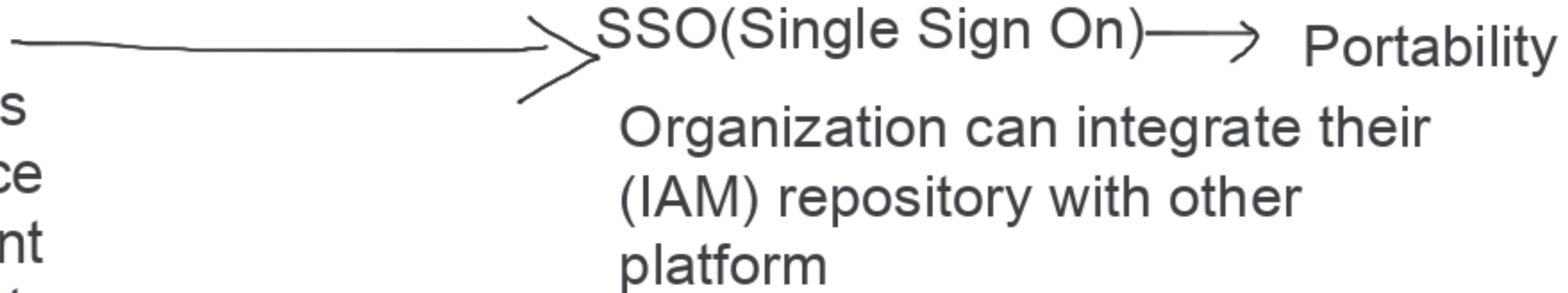
Directory Service

Federated Services

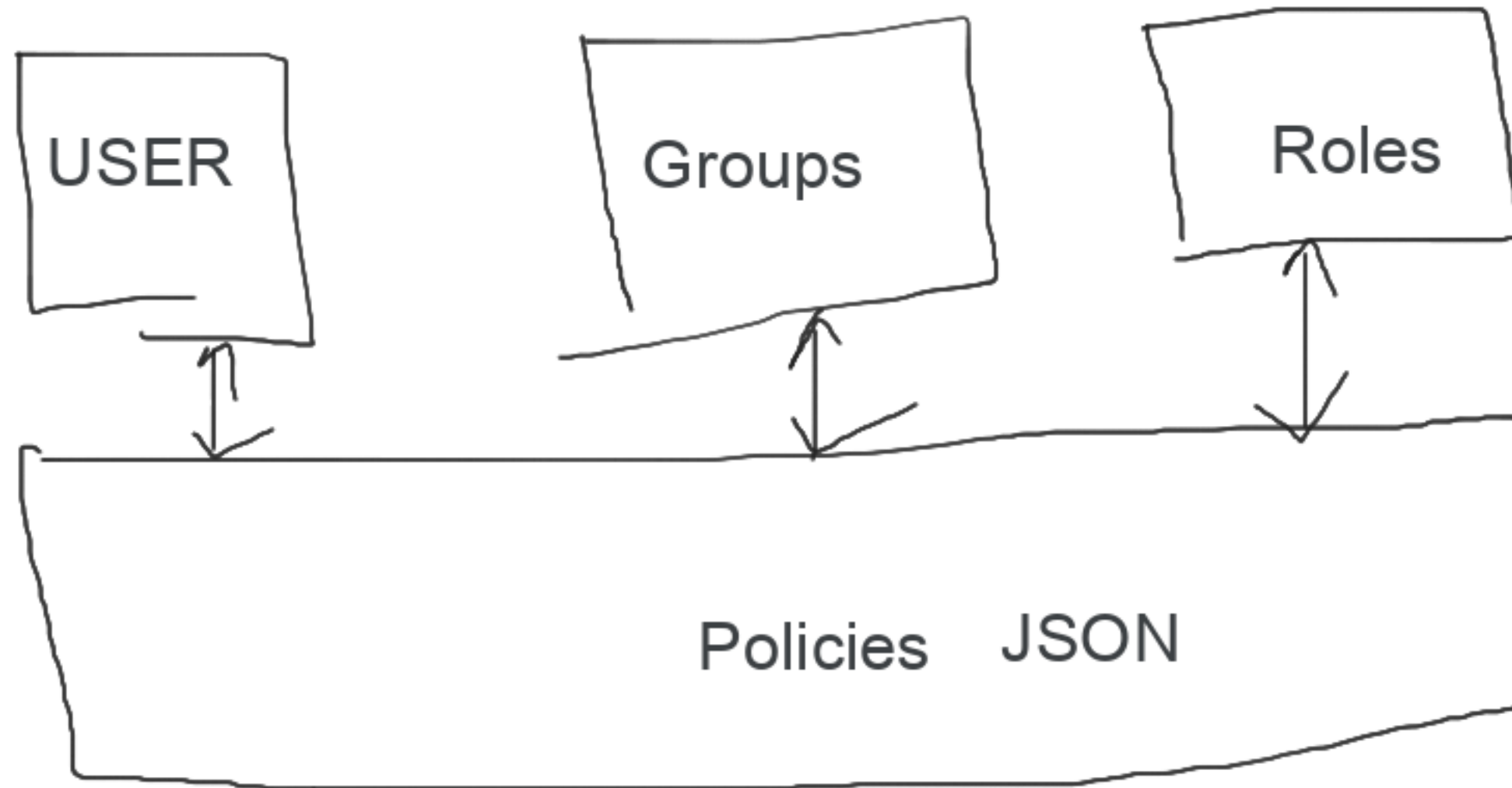
Identity Governance

Profile management

Policy Enforcement



IAM



Security

Groups :They control Inbound and outbound Traffic to ur VM

Features of IAM

- *Fine Grain Control on resources
- *Enhanced the Security
- *Multifactor authentication
- *Flexible Credential system
- *redemine the polocy easily

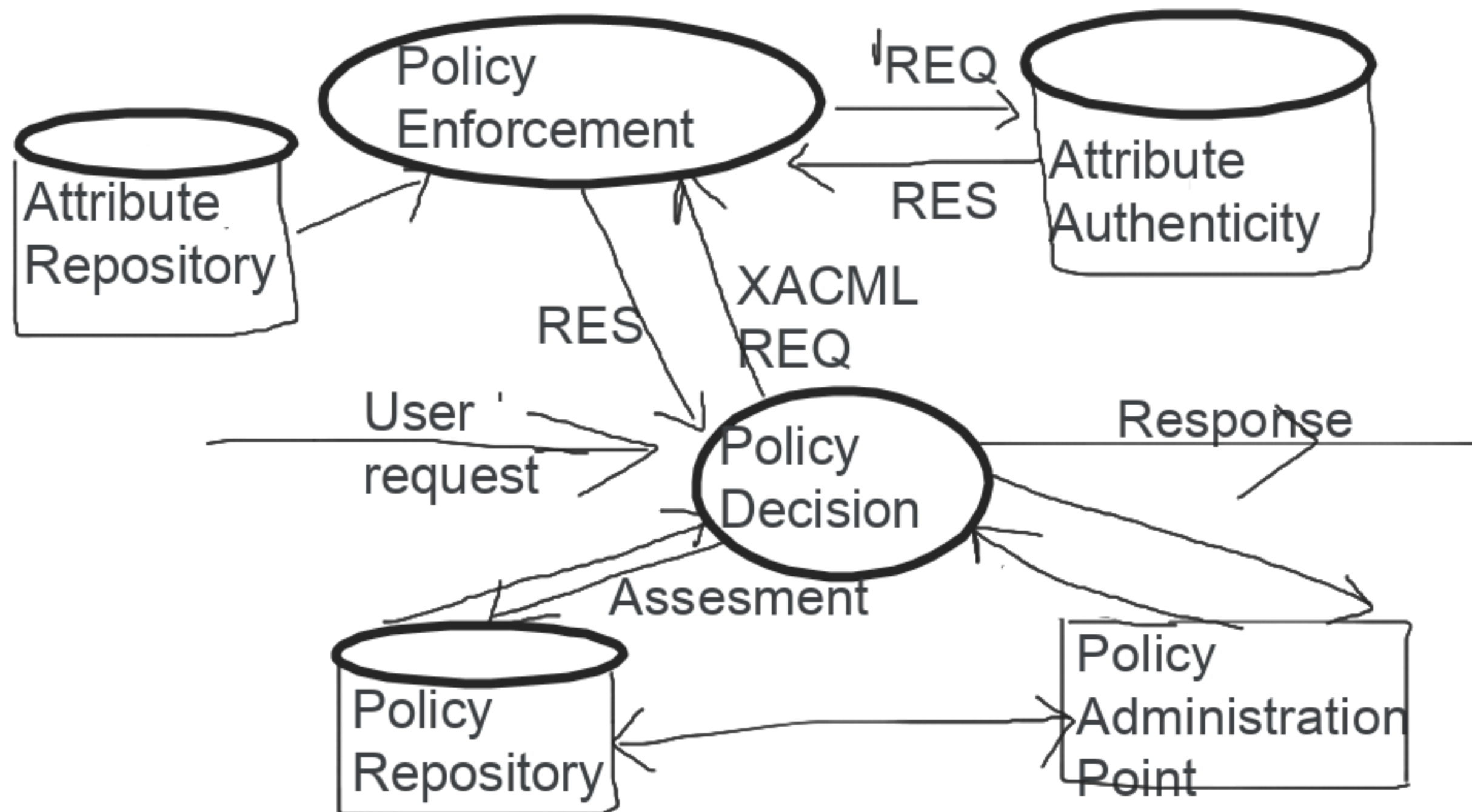
*IDP(Identity
Provider)

Open-Id

Architecture of Identity Management

XACML: Extensible
Access Control Markup
language

*Versign



Cloud Federation

- *Collaboration of more than one cloud Platform
- *To Shared the workload spikes
- *To share resources and also to share revenue gain
- *Interoperability and Portability in cloud platform
- *DMTF(Distributed Management Task force) organization to standarization cloud interoprations issues
- *security issues of Inter cloud/Cloud federation can also be handle through IAM mechanism