

Experiment No: 7

Aim: To study and implement 11dentity and access management (IAM) portion practices mont AWS Theoryleis at sono of sloubivibil typin Explain the concept and need of acrees management 22222 , dop a 2129 Access management (AM) is process of identifying and controlling and managing authorized or specified user access to a system. Tt is a board concept. that len composes all policies, methodologies and tooled to maintain access privilage-inamapound asi (E AM is primarily an information security, IT and data governance process used in gamming lacceisses to valid users of prohibiting involved users. - Typically Amis used in conjuction with ridentity access management - TAM. I Identify, management executed, provision and controls the different users, moles and groups - and policies whereas AM ensures that these moles and policies lave allowed An AM based application istates whe different - duserounder and their policies - tom as entitlements of energy additional



Experiment No! 7

in Explain ht Amando its components i will TAM sic an identify and access management is the security discipline that enables the wight individuals to access the right resources at the sight seasons. These recources Deouth be took regarded to complete a gob i acress as database with mission exitical total geron reexities and similar poide doin cloude in the pi er cherified use accesizensques en It soans be roategorized into sour components: 110 ost moderationation broad a si it 3) User Management appliving 22970 PT 119) 197 Central 30 User Repository 21 MA entidi mocompaner tiler following zinor Awsnimmore Roots Voeri and AWS TAMAUSER 13 19 17 Root user is the fix to cloud service I dentity Créated by default when you coeade your cloud service provider account destant Tto important to note all cloud services providers have some form of root elements. AWS FAM usier rean be created by a mot user on another of AM reuses who has entitlements on create additional JAM user.



Can autheticate on start a remode session using their exedentials on alias Can corresponds to themany application process on another machine based identity. whi has polone a souted pidenoitales 2) Roles and Policies i) Idended for guaranting i) Defines permission and can temporary access for be attached to user groups entities ilite application extralescolescoles of sequices sobulari booth usa AWS recources ii) Addached to the TAM be one services ! weers wigoups: ii) Temporary permission. 2 viv) Defines who bean is) Thist relationship is not applicable as they assumentherde do not involve books southered to de V) Delines a get of v) Providos a way to permissions that can grant precise be attached to permissions to a multiple entities. specific entity.



. Explain Thine and custom policies in Aws An online policy is a policy readed for a shope of AM = identity . shops one . This staline policies maintain a starce one to one relationship between a policy and Identity either you an execute is policy and rembed it in an identity. An Awisimanaged policy is a standalone no has policy th orthogras co entreolinand administration stemposon access to be attackny tydeer group Standalone policy that the policy has its own ARN that includes the policy name. 16 To You can execute Extandatione policy in your ocon AWS account that you oan attach to principate? entities voscognes? (: - Explaine Multifaction Authentication on AWS entity dentity and Acresic Management best practice that requires a second authentication factor o him additioned