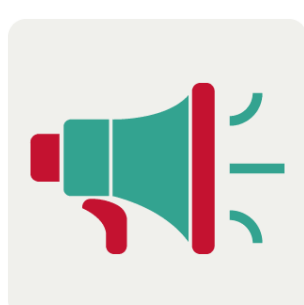


1



Introduction

- | | |
|---|---|
| 1 | SCPs are rules that control what you can and cannot do in your AWS accounts |
| 2 | They work at the level of your whole organization or specific groups within it |
| 3 | SCPs can't give you new permissions. Instead, they can only limit what's allowed. |
| 4 | You set these rules from one central place, and they apply to all users and roles in the accounts they cover. |
| 5 | A user without any IAM permission policies has no access, even if the applicable SCPs allow all services and all actions. |
| 6 | <div> <div>Exclusivity to AWS Organizations</div> <div> <div>1</div> <div>2</div> </div> <div> <div>SCPs are exclusive to AWS Organizations and can only be used when you've enabled an organization in your AWS account</div> <div>They are part of the service control features offered by AWS Organizations.</div> </div> </div> |

2



Key Points

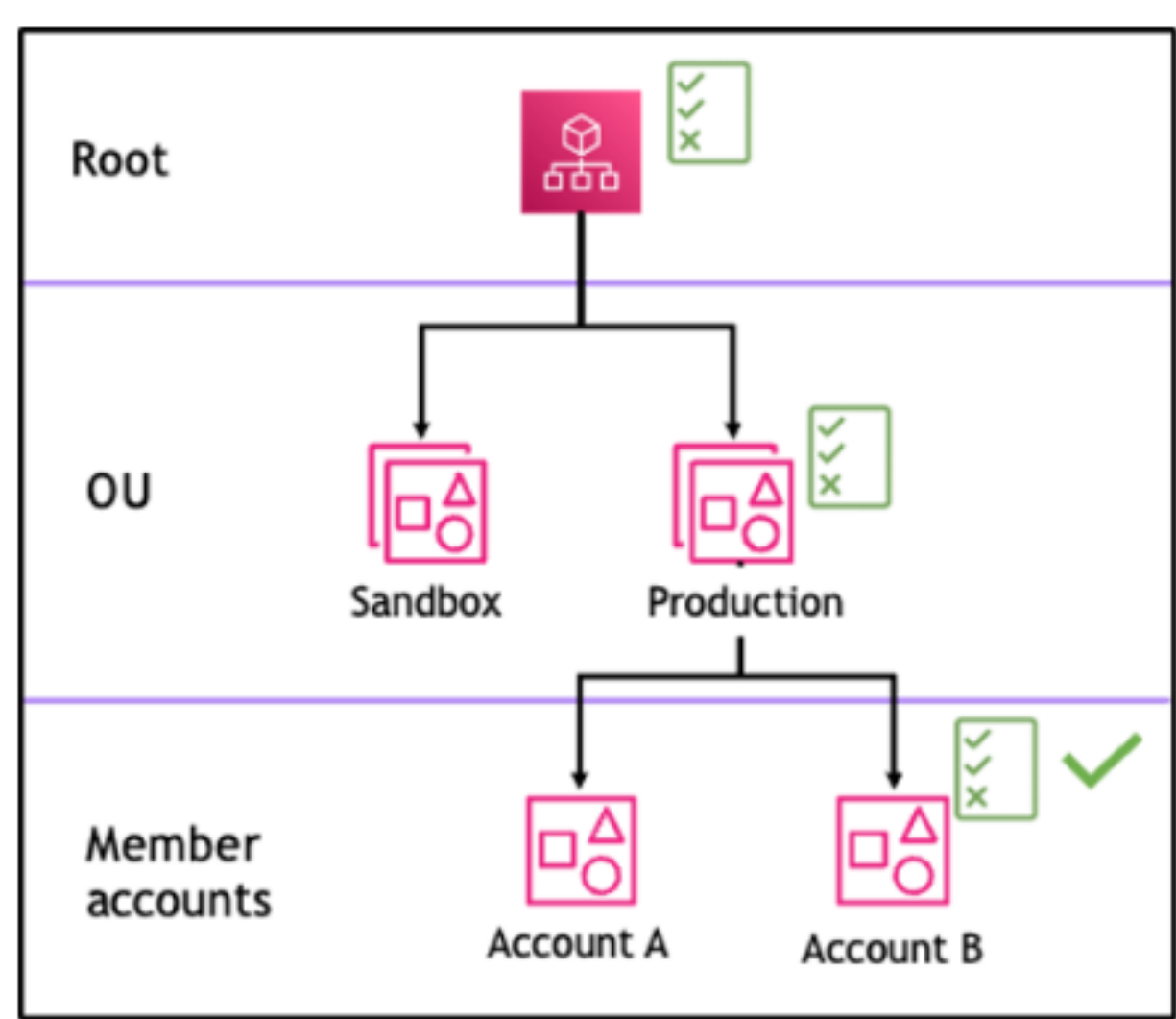
- | | | | | | |
|---|----------------------|---|---|---------------------|----------------------------|
| 1 | Layered Architecture | 1 | SCPs can be applied at different levels within an organization | 2 | Organizational units (OUs) |
| 3 | | | | Individual accounts | |
| | | 2 | Policies applied at higher levels affect all entities within their scope. | | |
| 2 | Scope of Application | 1 | An SCP restricts permissions for IAM users and roles in member accounts, including the member account's root user. | | |
| | | 2 | SCPs affect only member accounts in the organization. They have no effect on users or roles in the management account. | | |
| 3 | Deny by Default | 1 | SCPs are deny-based. Primary function is to deny or restrict permissions across accounts in an organization. | | |
| | | 2 | If a permission is blocked at any level above the account, either implicitly or explicitly a user or role in the affected account can't use that permission | | |
| 4 | Evaluation Logic | 1 | When determining whether an action is allowed, AWS evaluates SCPs in conjunction with IAM policies. | | |
| | | 2 | An action must be allowed by IAM policies and not explicitly denied by SCPs to proceed. | | |

3

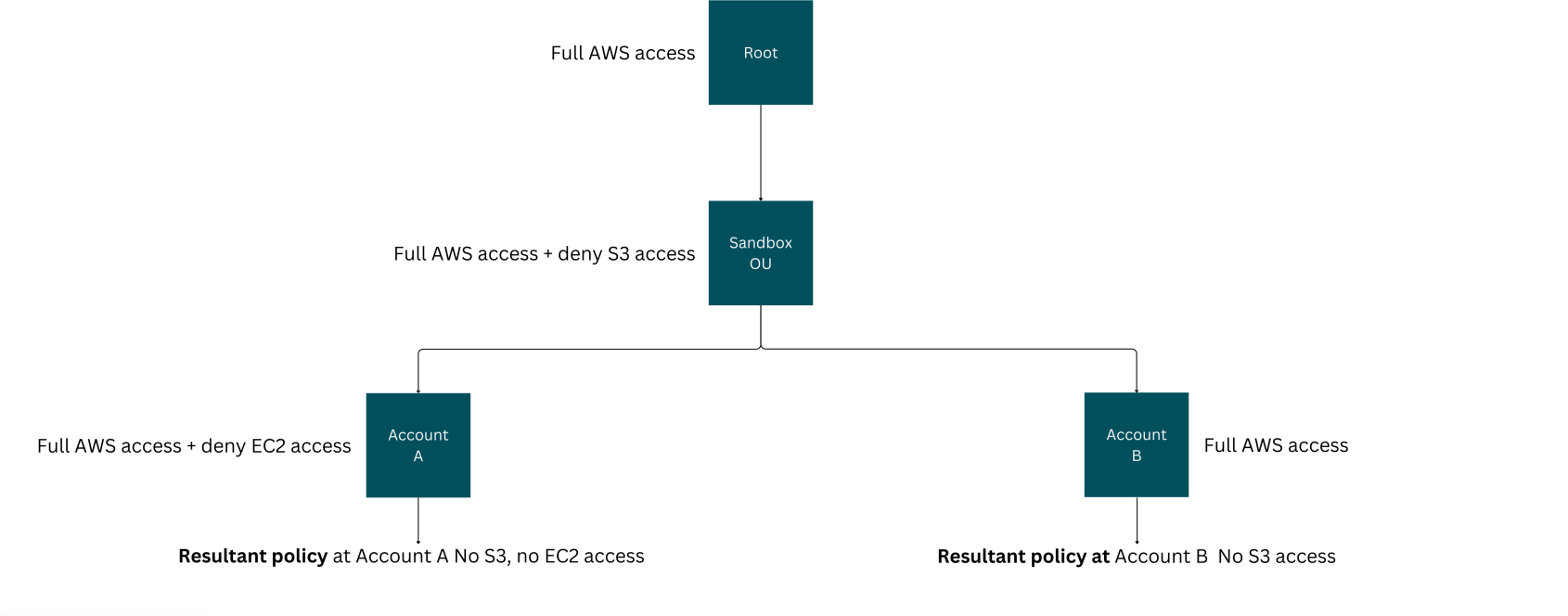
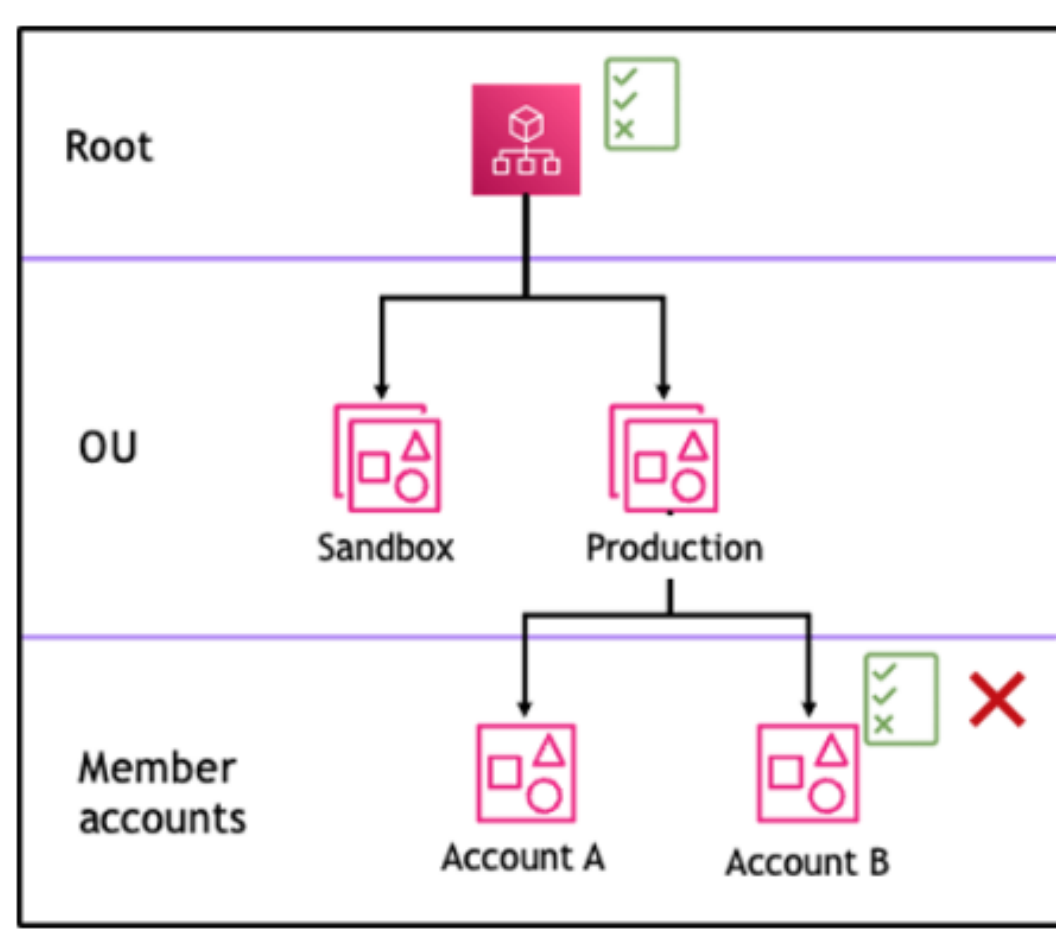


Default SCP

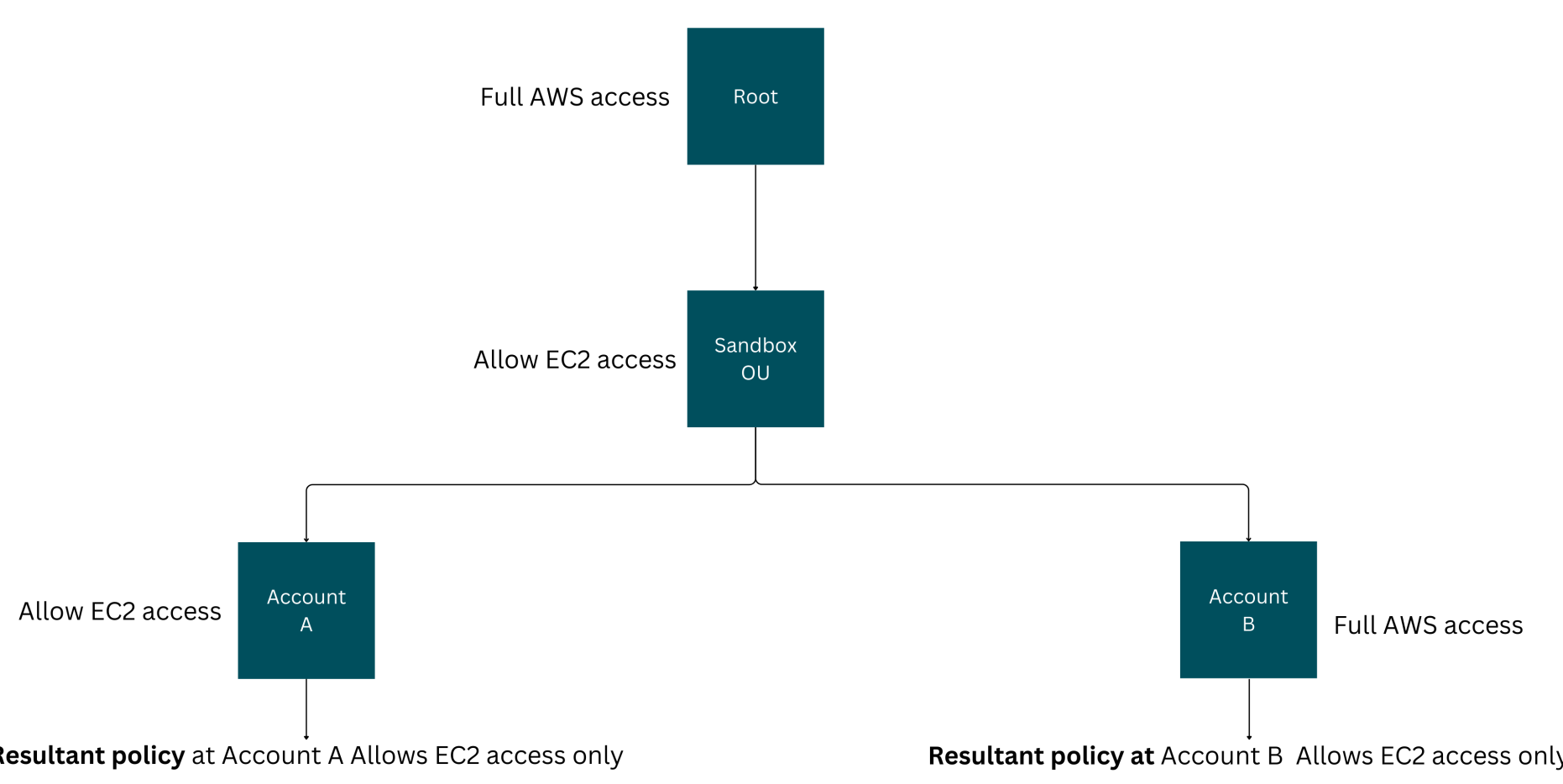
- 1 Automatically attached to all entities in an AWS Organization, allowing unrestricted access to AWS services.
- 2 Permits all actions (*) on all resources (*), ensuring no SCP-imposed restrictions at the outset.
- 3 Serves as an upper limit on permissions; actual access is defined by IAM policies.



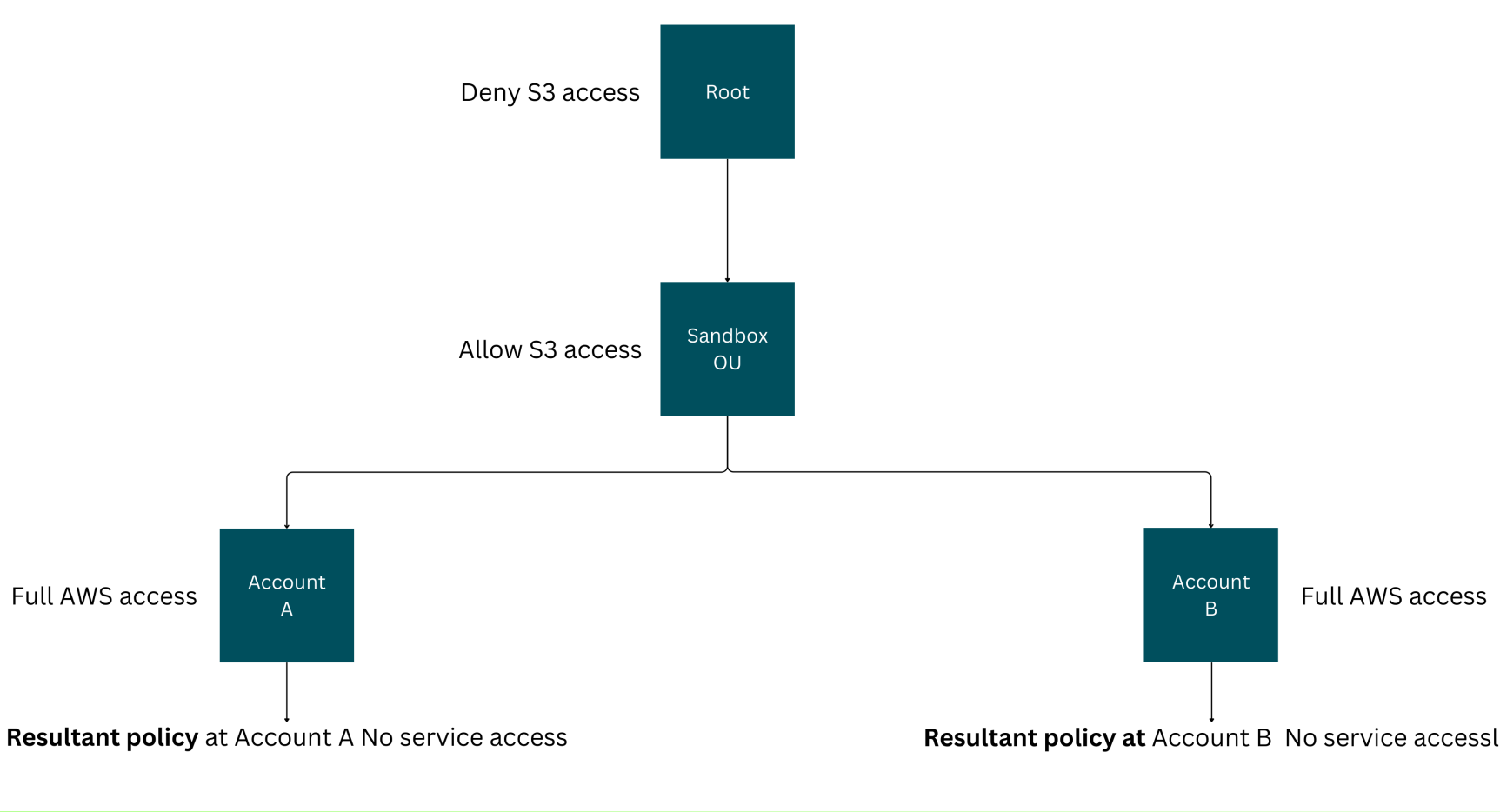
1 How SCPs work with Allow



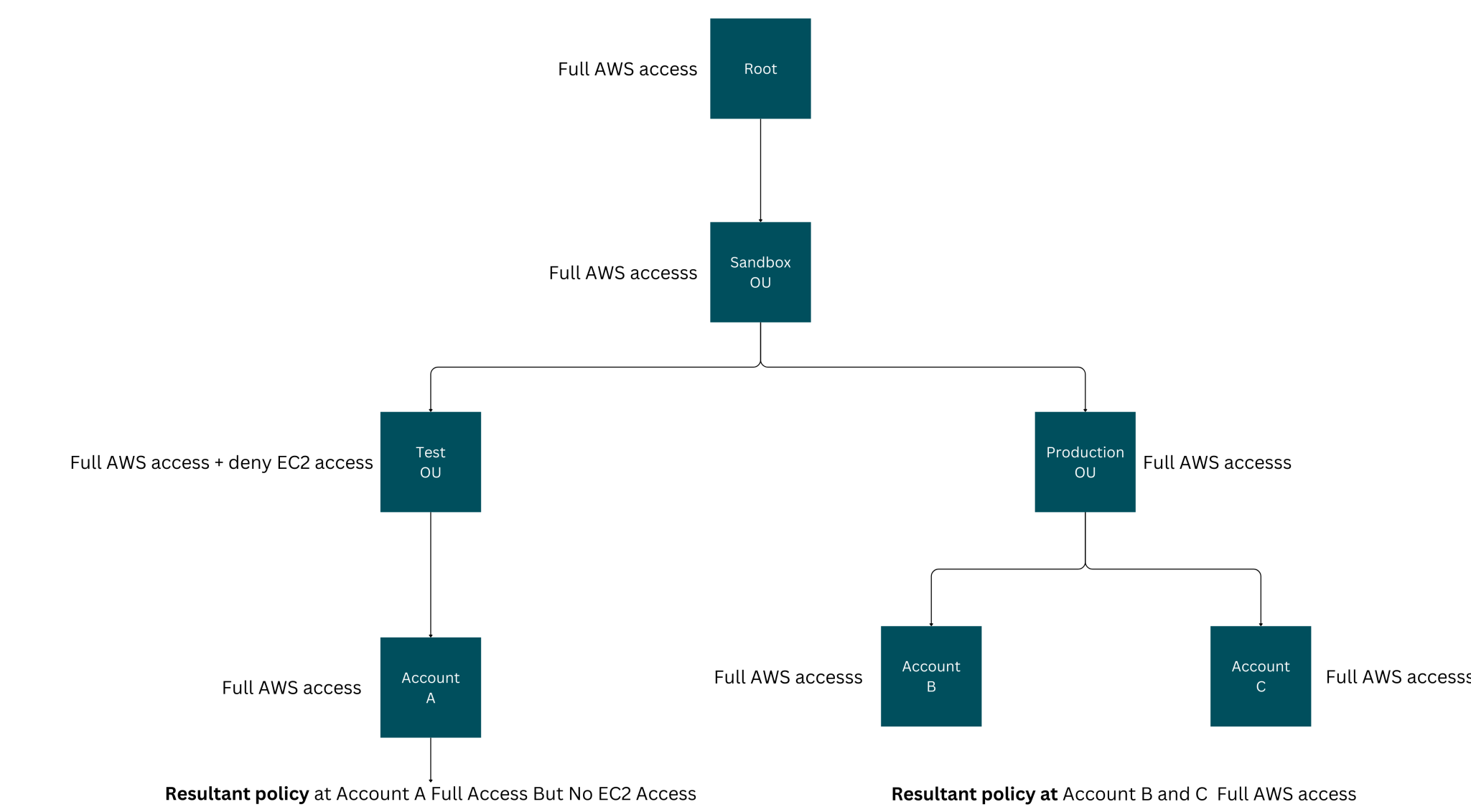
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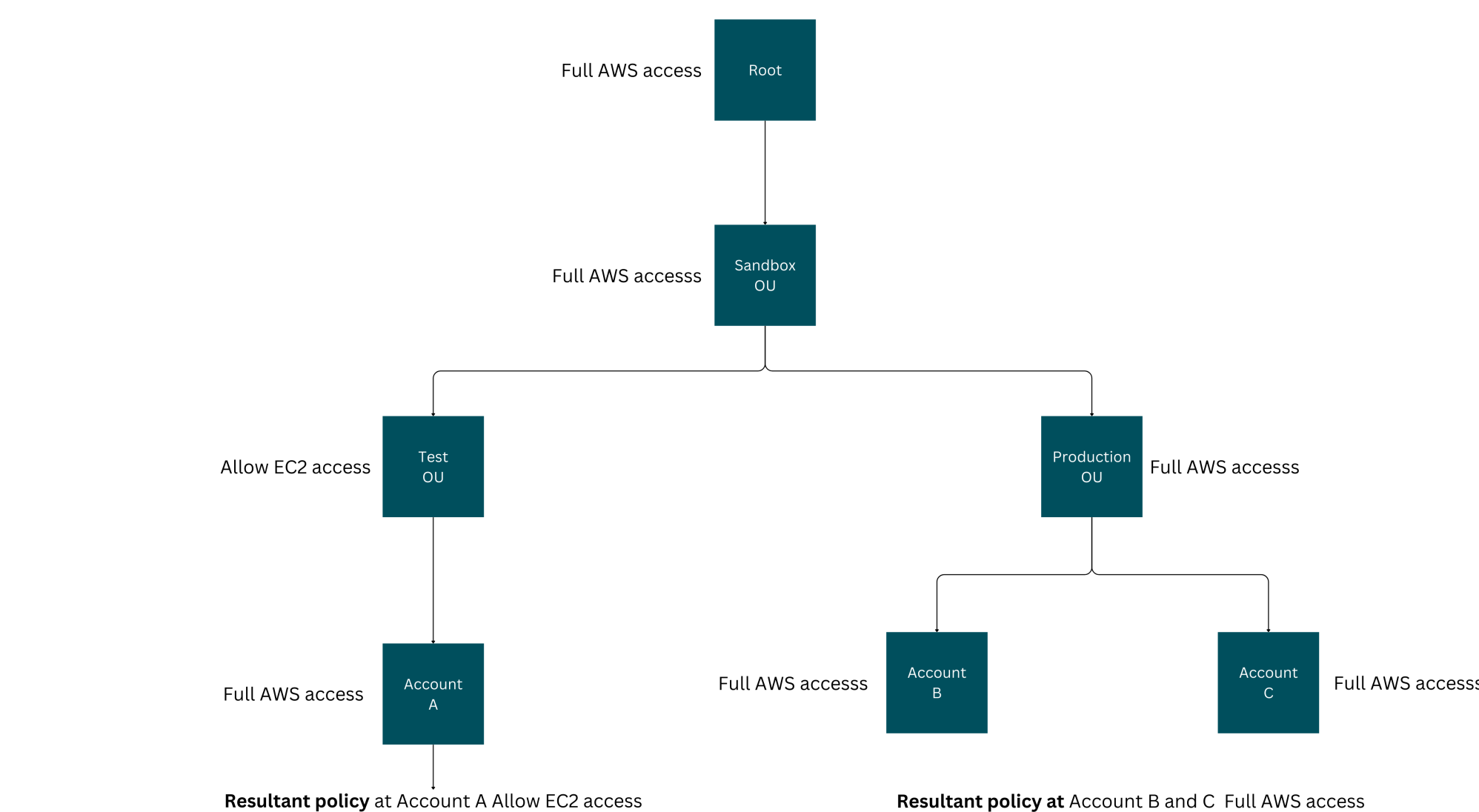
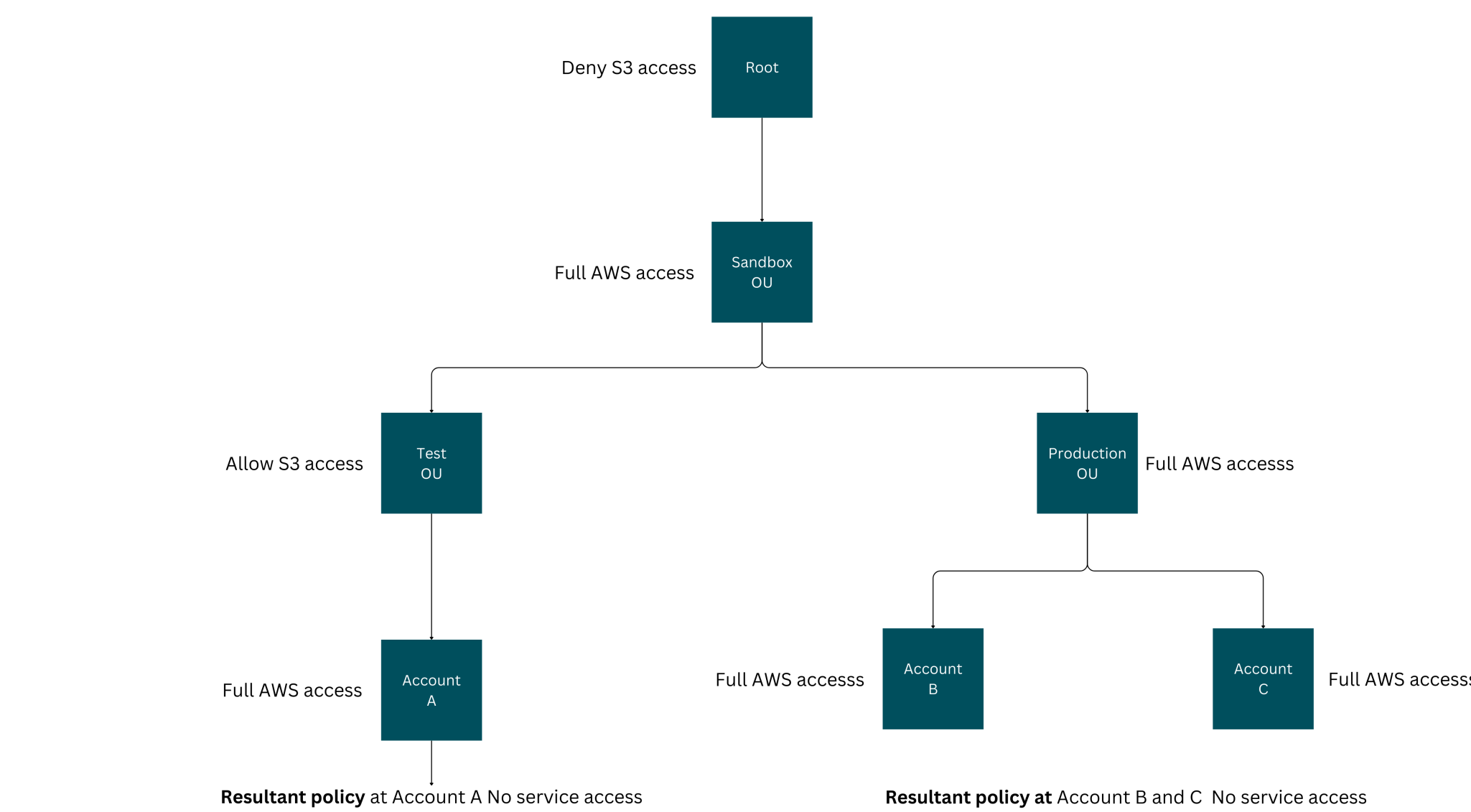
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2 How SCPs work with Deny



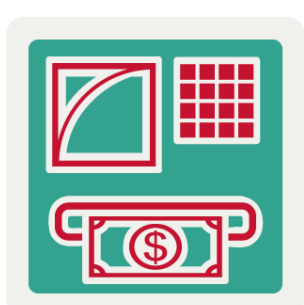
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Examples



Service Control Policies (SCPs)



Example Of SC