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# MZ2POL-04: Policies and Boundaries

> **Series:** MZ2POL | **Notebook:** 5 of 8 | **Created:** December 2025

## Overview

This notebook provides a comprehensive guide to **IAM Policies** and **Policy Boundaries** – the two components that together replace Management Zone access control. Policies define **WHAT** users can do, while boundaries define **WHERE** those permissions apply.

## Prerequisites



- Completed MZ2POL-01 through MZ2POL-03
- Access to Dynatrace Account Management
- Policy Management permissions



## Learning Objectives

By the end of this notebook, you will:


1. Understand policy statement syntax and structure
2. Know the default policies and when to use them
3. Understand boundary syntax and how boundaries restrict policies
4. Be able to map MZ access patterns to policy + boundary combinations
5. Know the recommended group-policy-boundary structure for SAML/AD integration



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## 1. Understanding the Relationship

### Policies vs Boundaries

![Policy Boundary Relationship diagram](MZ2POL-04_PolicyBoundaryRelationship.svg)

The diagram illustrates the relationship between Policies and Boundaries. It shows a central 'Policy Statement' box connected to both a 'Boundary' box and a 'Subject' box. The 'Boundary' box is further connected to a 'Resource' box. This visualizes how a single policy statement can be applied across different boundaries and affect specific resources for certain subjects.
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Nm0GY5ZmEiIHJ4PSIxMCIvPgoKICA8IS0tIFRpdGx1IC0tPgogIDx0ZXh0IHg9IjQwMCIGeT0iMjgiIGZvbnQtZmFtaWx5PSJBcmhbCwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIx0CIgZm9udC13ZWlnaHQ9ImJvbGQiIGZpbGw9IiMzMzMiIHReHQtYW5jaG9yPSJtaWRkbGUiPlBvbGljeSArIEJvdW5kYXJ5IFJlbGF0aW9uc2hpcDwvdGV4dD4KICA8dGV4dCB4PSI0MDAiIHk9IjQ4IiBmb250LWZhbwlsdT0iQXJpYwsiHNhbNmtc2VyaWYiIGZvbnQtc2l6ZT0iMTIIIGZpbGw9IiM2NjYiIHReHQtYW5jaG9yPSJtaWRkbGUiPlBvbGljaWvzIGrlZmluZSBXSEFULCBCb3VuZGFyaWvzIHJlc3RyaWN0IFdIRVFPC90ZXh0PgoKICA8IS0tIFdpdGhvdXQgQm91bmRhcnkgU2VjdGlvbiAtLT4KICA8cmVjdCB4PSIzMCIgeT0iNzAiIHdpZHRoPSIzNTUiIGHlaWdodD0iMTMwIiByeD0i0CIgZmlsbD0iI2ZmZiIgc3Ryb2tlPSIjM2I4MmY2IiBzdHJva2Utd2lkGg9IjIiIGZpbHRlcj0idXjsKCnwYlNoYWRvdykiLz4KICA8cmVjdCB4PSIzMCIgeT0iNzAiIHdpZHRoPSIzNTUiIGHlaWdodD0iMzAiIHJ4PSI4IiBmaWxsPSJ1cmwoI3BvbGljeU9ubHlHcmFkKSIvPgogIDx0ZXh0IHg9IjIwNyIgeT0i0TAiiIGZvbnQtZmFtaWx5PSJBcmhbCwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMiiGZm9udC13ZWlnaHQ9ImJvbGQiIGZpbGw9IndoaXRlIiB0ZXh0LWFuY2hvcj0ibWlkZGxlij5XaXRob3V0IEJvdW5kYXJ5PC90ZXh0PgoKICA8cmVjdCB4PSI1MCIgeT0iMTE1IiB3aWR0aD0iMzE1IiBoZWlnaHQ9IjM1IiByeD0iNCIgZmlsbD0iI2RiZWFMZSIvPgogIDx0ZXh0IHg9IjIwNyIgeT0iMTM4IiBmb250LWZhbwlsdT0ibW9ub3NwYWNlIiBmb250LXNpemU9IjExIiBmaWxsPSIjMWU0MGfmiB0ZXh0LWFuY2hvcj0ibWlkZGxlij5Qb2xpY3k6IEFMT9XIHN0b3JhZ2U6bG9nczpyZWFkPC90ZXh0PgoKICA8dGV4dCB4PSIyMDciIHk9IjE3NSIgZm9udC1mYW1pbHk9IkFyaWFsLCBzYW5zLXNlcmlmIiBmb250LXNpemU9IjExIiBmaWxsPSIjMzMzIiB0ZXh0LWFuY2hvcj0ibWlkZGxlij5SZXN1bHQ6IEFjY2VzcyB0byBBTEwgbG9ncyBpbib1bnZpcm9ubWVudDwvdGV4dD4KICA8cmVjdCB4PSI4MCIgeT0iMTgyIiB3aWR0aD0iMjU0IiBoZWlnaHQ9IjgiIHJ4PSI0IiBmaWxsPSIjM2I4MmY2Ii8+CgogIDwhLS0gV2l0aCBCb3VuZGFyeSBTZWN0aW9uIC0tPgogIDxyZWN0IHg9IjQxNSIgeT0iNzAiIHdpZHRoPSIzNTUiIGHlaWdodD0iMTMwIiByeD0i0CIgZmlsbD0iI2ZmZiIgc3Ryb2tlPSIjZWM00Dk5IiBzdHJva2Utd2lkGg9IjIiIGZpbHRlcj0idXjsKCNwYlNoYWRvdykiLz4KICA8cmVjdCB4PSI0MTUiIHk9IjcwIiB3aWR0aD0iMzU1IiBoZWlnaHQ9IjMwIiByeD0i0CIgZmlsbD0idXjsKCnb3VuZGVkr3jhZCkiLz4KICA8dGV4dCB4PSI10TiiIHk9IjkwiBmb250LWZhbwlsdT0iQXJpYwsiHNhbNmtc2VyaWYiIGZvbnQtc2l6ZT0iMTIIIGZvbnQtd2VpZ2h0PSJib2xkIiBmaWxsPSJ3aG10ZSIgdGV4dC1hbmNob3I9Im1pZGRsZSI+V2l0aCBCb3VuZGFyeTwvdGV4dD4KCiAgPHJ1Y3QgeD0iNDM1IiB5PSIxMTAiIHdpZHRoPSIzMTUiIGHlaWdodD0iMjUiIHJ4PSI0IiBmaWxsPSIjZGJ1YwZL1i8+CiAgPHRleHQgeD0iNTkyIiB5PSIxMjgiIGZvbnQtZmFtaWx5PSJtb25vc3BhY2UiIGZvbnQtc2l6ZT0iMTAiIGZpbGw9IiMxZTQwYwYiIHReHQtYW5jaG9yPSJtaWRkbGUiPlBvbGljeTogQUxMT1cgc3RvcmFnZTpsb2dzOnJ1YwQ8L3R1eHQ+CgogIDxyZWN0IHg9IjQzNSIgeT0iMTQwIiB3aWR0aD0iMzE1IiBoZWlnaHQ9IjI1IiByeD0iNCIgZmlsbD0iI2ZjZTdmMyIvPgogIDx0ZXh0IHg9IjU5MiIgeT0iMTU4IiBmb250LWZhbwlsdT0ibW9ub3NwYWNlIiBmb250LXNpemU9IjEwIiBmaWxsPSIj0WQxNzRkIiB0ZXh0LWFuY2hvcj0ibWlkZGxlij5C3VuZGFyeTogc2VjdxJpdHlfY29udGV4dCA9ICJ0ZWftLWEiPC90ZXh0PgoKICA8dGV4dCB4PSI10TiiIHk9IjE4NSIgZm9udC1mYW1pbHk9IkFyaWFsLCBzYW5zLXNlcmlmIiBmb250LXNpemU9IjExIiBmaWxsPSIjMzMzIiB0ZXh0LWFuY2hvcj0ibWlkZGxlij5SZXN1bHQ6IEFjY2VzcyB0byB0ZWftLWEgbG9ncyBPTkxZPC90ZXh0PgogIDxyZWN0IHg9IjUyMCIGeT0iMTkwIiB3aWR0aD0iMTQ0IiBoZWlnaHQ9IjgiIHJ4PSI0IiBmaWxsPSIjZWM00Dk5Ii8+CgogIDwhLS0gVGHyZWUgRG9tYwLucyBTZWN0aW9uIC0tPgogIDxyZWN0IHg9IjMwIiB5PSIyMTUiIHdpZHRoPSI3NDAiIGHlaWdodD0iMTEwIiByeD0i0CIgZmlsbD0iI2ZmZiIgc3Ryb2tlPSIjZTJ1LOGYwIiBzdHJva2Utd2lkGg9IjIiLz4KICA8dGV4dCB4PSI0MDAiIHk9IjIzOCIGz9udC1mYW1pbHk9IkFyaWFsLCBzYW5zLXNlcmlmIiBmb250LXNpemU9IjEyIiBmb250LXdlaWdodD0iYm9sZCIgZmlsbD0iIzMzMyIgdGV4dC1hbmNob3I9Im1pZGRsZSI+Q29tcGxldGUgTVogUmVwbGFjZW1lbnQ6IFVzZSBbGwgVGHyZWUgRG9tYwLucyBpbibC3VuZGFyeTwvdGV4dD4KCiAgPCEtLSBEb21haW4gYm94ZXMGs0+CiAgPHJ1Y3QgeD0iNTuiIHk9IjI1NSIg2lkGg9IjIyMCIgaGVpZ2h0PSI1NSIgcn9IjYiIGZpbGw9IiNmZWYzYzciIHn0cm9rZT0iI2Y10WUwYiIgc3Ryb2tlLxdpZHRoPSIxIi8+CiAgPHRleHQgeD0iMTY1IiB5PSIyNzUiIGZvbnQtZmFtaWx5PSJBcmhbCwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMCIGZm9udC13ZWlnaHQ9ImJvbGQiIGZpbGw9IiM5MjQwMG

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Component	Purpose	Analogy
**Policy**	Defines WHAT actions are allowed	"You can read logs"
**Boundary**	Defines WHERE policies apply	"...but only for team-frontend"

### ### How They Work Together

![Policy vs Boundary]  
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xMCAzLjUsIDAgnYIgZmlsbD0iIzY0NzQ4YiIvPgogICAgPC9tYXJrZXI+CiAgPC9kZWzzPgoKICA8IS0tIEJhY2tnmc91bmQgLS0+CiAgPHJlY3Qgd2lkdGg9IjcwMCIGaGVpZ2h0PSIzNDAiIGZpbGw9IiNm0Gy5ZmEiIHJ4PSIxMCIvPgoKICA8IS0tIFRpdGxIIC0tPgogIDx0ZXh0IHg9IjM1MCIGeT0iMzIiIGZvbNQtZmFtaWx5PSJzeXN0ZW0tdWksIC1hcHBsZS1zeXN0ZW0sIHnhbnMtc2VyaWYiIGZvbN0tc2l6ZT0iMTgiIGZvbNQtd2VpZ2h0PSJib2xkIiBmaWxsPSIjMWUyOTNiIiB0ZXh0LWFuY2hvcj0ibWlkZGxIi5Qb2xpY3kgdnMuIFBvbGljeSArIEJvdW5kYXJ5PC90ZXh0PgogIDx0ZXh0IHg9IjM1MCIGeT0iNTIiIGZvbNQtZmFtaWx5PSJzeXN0ZW0tdWksIC1hcHBsZS1zeXN0ZW0sIHnhbnMtc2VyaWYiIGZvbNQtc2l6ZT0iMTIiIGZpbGw9IiM2NDc00GIIiIHRleHQtYW5jaG9yPSJtaWRkbGUIPlVuZGVyc3RhbmRpBmcgaG93IGJvdW5kYXJpZXMcVmVzdHJpY3QgcG9saW5IHNjb3BlPC90ZXh0PgogKICA8IS0tIEzlZnQgQm940iBXaXR0b3V0IEJvdW5kYXJ5IChXYXJuaw5nKSAtLT4KICA8cmVjdCB4PSI0MCIGeT0iNzUiIHdpZHRoPSIy0TAiIGHlaWdodD0iMjMwIiByeD0iMTAiIGZpbGw9IiNmZmYiIHn0cm9rZT0iI2Y10WUwYiIgc3Ryb2tlLXdpxZHRoPSIyIiBmaWx0ZXI9InVybCgjcHZiU2hhZG93KSIvPgoKICA8IS0tIEzlZnQgSGVhZGVyIC0tPgogIDxyZWN0IHg9IjQwIiB5PSI3NSIgd2lkdGg9IjI5MCIGaGVpZ2h0PSI0NSIgcng9IjEwIiBmaWxsPSJ1cmwoI3B2Yldhcm5HcmFkKSIvPgogIDxyZWN0IHg9IjQwIiB5PSIxMDUiIHdpZHRoPSIy0TAiIGHlaWdodD0iMTUiIGZpbGw9InVybCgjcHZiV2FybkdyYWQpIi8+CiAgPHRleHQgeD0iNjAiIHk9IjEwMyIgZm9udC1mYW1pbHk9InN5c3RlbS11aSwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxNCIgZm9udC13ZwlNaHQ9ImJvbGQIIGZpbGw9IiNmZmYiPldpdGhvdxQgQm91bmRhcnk8L3RleHQ+CiAgPHRleHQgeD0iMzAwIiB5PSIxMDMiIGZvbNQtZmFtaWx5PSJzeXN0ZW0tdWksIHnhbnMtc2VyaWYiIGZvbNQtc2l6ZT0iMTYiIGZpbGw9IiNmZmYiIHRleHQtYW5jaG9yPSJlbumQiPuKao0+4jzwvdGV4d4KCIaGpCEtLSBMZW0IENvbnRlbnQgLS0+CiAgPHRleHQgeD0iNjAiIHk9IjE1MCIGz9udC1mYW1pbHk9InN5c3RlbS11aSwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMyIgZm9udC13ZwlNaHQ9ImJvbGQIIGZpbGw9IiMxZTI5M2IiPlBvbGljeTo8L3RleHQ+CiAgPHJlY3QgeD0iNjAiIHk9IjE2MCIGd2lkdGg9IjI1MCIGaGVpZ2h0PSI0NSIgcng9IjYiIGZpbGw9IiNmZwyzYzcilZ4KICA8dGV4dCB4PSI3NSIgeT0iMTgzIiBmb250LwzbwlseT0ibW9ub3NwYwNlIiBmb250LXNpemU9IjEyIiBmaWxsPSIjOTI0MDBLIj5BTExPVyBsb2dz0nJlYwQ8L3RleHQ+CgogIDx0ZXh0IHg9IjYwIiB5PSIyMjAiIGZvbNQtZmFtaWx5PSJzeXN0ZW0tdWksIHnhbnMtc2VyaWYiIGZvbNQtc2l6ZT0iMTMiIGZvbNQtd2VpZ2h0PSJib2xkIiBmaWxsPSIjMWUyOTNiIj5SZXN1bHq6PC90ZXh0PgogIDxyZWN0IHg9IjYwIiB5PSIyMjAiIGHlaWdodD0iNTUiIHJ4PSI2IiBmaWxsPSIjZmVm0WmZiBzdHJva2U9IiNmZGUwNDciIHn0cm9rZS13aWR0aD0iMSIVPgogIDx0ZXh0IHg9IjC1IiB5PSIyNTUiIGZvbNQtZmFtaWx5PSJzeXN0ZW0tdWksIHnhbnMtc2VyaWYiIGZvbNQtc2l6ZT0iMTIiIGZpbGw9IiM4NTRkMGUipkFjY2VzcyB0byBBTEwgbG9ncypbpiBlbnZpcm9ubWvudDwvdGV4d4KICA8dGV4dCB4PSI3NSIgeT0iMjC1iBmb250LwzbwlseT0ic3lzdGVtLXvpLCBzYw5zLXNlcmlmIiBmb250LXNpemU9IjExIiBmaWxsPSIjYTE2MjA3Ij50byByZxN0cmljdGlvbnMgb24gd2hpY2ggbG9ncypjYw4gYmUgcmVhZDwvdGV4d4KCIaGpCEtLSBSaWdodCbcB3g6IFdpdGggQm91bmRhcnkgKEdvb2QpI0tPgogIDxyZWN0IHg9IjM3MCIGeT0iNzUiIHdpZHRoPSIy0TAiIGHlaWdodD0iMjMwIiByeD0iMTAiIGZpbGw9IiNmZmYiIHn0cm9rZT0iIzEwYjk4MSIgc3Ryb2tlLXdpxZHRoPSIyIiBmaWx0ZXI9InVybCgjcHZiU2hhZG93KSIvPgoKICA8IS0tIFJpZ2h0IEhlywrlciAtLT4KICA8cmVjdCB4PSIzNzAiIHk9IjC1IiB3aWR0aD0iMjkwiBoZwlNaHQ9IjQ1IiByeD0iMTAiIGZpbGw9InVybCgjcHZiR29vZEdyYWQpIi8+CiAgPHJlY3QgeD0iMzwcIiB5PSIxMDUiIHdpZHRoPSIy0TAiIGHlaWdodD0iMTUiIGZpbGw9InVybCgjcHZiR29vZEdyYWQpIi8+CiAgPHRleHQgeD0iMzkwiB5PSIxMDMiIGZvbNQtZmFtaWx5PSJzeXN0ZW0tdWksIHnhbnMtc2VyaWYiIGZvbNQtc2l6ZT0iMTQIIGZvbNQtd2VpZ2h0PSJib2xkIiBmaWxsPSIjZmZmIj5XaXRoIEJvdW5kYXJ5PC90ZXh0PgogIDx0ZXh0IHg9IjYZMCIGeT0iMTAzIiBmb250LwzbwlseT0ic3lzdGVtLXvpLCBzYw5zLXNlcmlmIiBmb250LXNpemU9IjE2IiBmaWxsPSIjZmZmIiB0ZXh0LWFuY2hvcj0iZw5kIj7inJM8L3RleHQ+CgogIDwhLS0gUmlnaHQgQ29udGVudCATLT4KICA8dGV4dCB4PSIz0TAiIHk9IjE1MCIGz9udC1mYW1pbHk9InN5c3RlbS11aSwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMyIgZm9udC13ZwlNaHQ9ImJvbGQIIGZpbGw9IiMxZTI5M2IiPlBvbGljeTo8L3RleHQ+CiAgPHJlY3QgeD0iMzkwiB5PSIxNjAiIHdpZHRoPSIyNTAiIGHlaWdodD0iMzUiIHJ4PSI2IiBmaWxsPSIjZGnmY2U3Ii8+CiAgPHRleHQgeD0iNDA1IiB

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Hk9InN5c3RlbS11aSwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMSIgZmlsbD0iIzAzNj1hMSIgdG
V4dC1hbmlNob3I9Im1pZGRsZSI+Qm91bmRhcmllcyByZXN0cmljdCBXSEFUIGRhdGEgYSBwb2xpY3k
gYXBwbGllcyB0by4gUG9saWnpZXMGZGVmaW5lIFdIQVQgYwN0aW9ucyBhcmUgYWxsb3dlZC48L3R1
eHQ+Cjwvc3ZnPgo=)
```

### ### Key Characteristics

#### \*\*Policies:\*\*

- Define permissions (ALLOW statements)
- Can include conditions (WHERE clauses)
- Default policies cover most use cases

#### \*\*Boundaries:\*\*

- Separate from policies (decoupled)
- Reusable across multiple policies
- Can only narrow permissions, never expand
- Optional – policies work without them (full scope)

---

## ## 2. Policy Fundamentals

### ### Policy Statement Structure

```

:: [WHERE ]

```

Component	Description	Examples
**Effect**	Permission type	`ALLOW` (only option currently)
**Service**	Dynatrace service	`storage`, `settings`, `app`
**Resource**	Resource type	`logs`, `buckets`, `objects`
**Action**	Operation	`read`, `write`, `delete`
**Condition**	Optional filter	`WHERE field = "value"`

### ### Basic Policy Statements

```

```
// Grant read access to all logs
ALLOW storage:logs:read
```

```
// Grant read/write to buckets
ALLOW storage:buckets:read
ALLOW storage:buckets:write
```

```
// Grant all actions on a resource
ALLOW storage:logs:*
```

```

### ### Common Services and Resources

Service	Resources	Common Actions
`storage`	`logs`, `spans`, `events`, `metrics`, `buckets`	`read`, `write`, `delete`
`settings`	`objects`, `schemas`	`read`, `write`, `delete`
`app`	`apps`, `functions`	`run`, `install`
`automation`	`workflows`	`read`, `write`, `run`
`document`	`documents`	`read`, `write`, `delete`, `share`

---

## ## 3. Default Policies

Dynatrace provides **default policies** that cover common access patterns. These are **read-only** but cover most use cases.

### ### Dynatrace Access Policies

Policy	Use Case	Key Permissions
**Dynatrace Viewer**	Read-only access	View dashboards, data, settings
**Dynatrace Operator**	Basic operations	Viewer + create dashboards, notebooks
**Dynatrace Standard User**	Regular users	Operator + modify some

```

settings |
| **Dynatrace Professional User** | Power users | Standard + advanced
features |
| **Dynatrace Admin User** | Administrators | Full platform access |

```

### ### Data Access Policies

Policy	Use Case	Key Permissions
---	---	---
**Data Viewer**	Read monitored data	Query logs, metrics, traces
**Data Editor**	Modify data configs	Viewer + data configuration

### ### Choosing the Right Default Policy

```

| User Type          | → Dynatrace Policy       | + Data Policy |
|--------------------|--------------------------|---------------|
| Executives/Viewers | → Dynatrace Viewer       | + Data Viewer |
| Developers         | → Dynatrace Standard     | + Data Viewer |
| SRE/Operations     | → Dynatrace Professional | + Data Editor |
| Platform Admins    | → Dynatrace Admin        | + Data Editor |

```

---

## ## 4. Condition and Boundary Syntax

Policies and boundaries share the same condition syntax.

### ### Supported Operators

Operator	Description	Example
`=`	Exact match	`field = "value"`
`!=`	Not equal	`field != "value"`
`startsWith`	Prefix match	`field startsWith "prefix"`
`in`	Value in list	`field in ("a", "b", "c")`
`IN`	Value in list (alternative)	`field IN ("a", "b")`

### ### Supported Fields

Field	Description	Used In
`environment`	Environment restrictions	Boundaries
`environment:name`	Environment by name	Boundaries
`environment:management-zone`	MZ-based (transitional)	Boundaries
`storage:dt.security_context`	Security context	Both
`storage:bucket`	Grail bucket	Both

```
| `settings:schemaId` | Settings schema ID | Policies |
| `settings:dt.security_context` | Settings security context | Boundaries |

### Combining Conditions

**AND logic** (all conditions must match):
```
ALLOW storage:logs:read
  WHERE storage:dt.security_context = "team-a"
    AND storage:bucket = "production_logs"
```

**OR logic** (multiple statements or lines):
```
// In policies: Multiple statements
ALLOW storage:logs:read WHERE storage:dt.security_context = "team-a"
ALLOW storage:logs:read WHERE storage:dt.security_context = "team-b"

// In boundaries: Each line is OR-combined
storage:dt.security_context = "team-a"
storage:dt.security_context = "team-b"
```

---
## 5. Creating Boundaries

### Via UI

1. Navigate to **Account Management** → **Identity & Access Management**
2. Select **Policy Boundaries** → **Boundaries** tab
3. Click **Create boundary**
4. Enter:
   - **Boundary name**: Descriptive name
   - **Boundary query**: Restriction conditions
5. Click **Save**

### Boundary Examples

**Team-Based Boundary:**
```
Name: Frontend Team Scope
Query: storage:dt.security_context = "team-frontend"
```

**Environment Boundary:**
```
Name: Production Only
```
```

```

Query: storage:dt.security_context startsWith "prod-"
```

**Multi-Team Boundary (OR logic):**
```
Name: Platform Teams
Query:
storage:dt.security_context = "team-infra"
storage:dt.security_context = "team-sre"
storage:dt.security_context = "team-platform"
```

### Boundary Limitations

Limitation	Description	Workaround
Max 10 lines	Only 10 conditions per boundary	Create multiple boundaries
No AND in lines	Each line is one condition	Use multiple boundaries for AND
No complex expressions	Limited to basic operators	Simplify conditions

```
## 6. Best Practice: Complete Boundary for MZ Restriction

When restricting access to replicate a Management Zone, use **all three domains** in your boundary query:

```
environment:management-zone IN ("LOB5");
storage:dt.security_context IN ("LOB5");
settings:dt.security_context IN ("LOB5");
```

### Why All Three Domains?

| Domain | What It Restricts |
|-----|-----|
| `environment:management-zone` | Classic entity access (hosts, services, processes) |
| `storage:dt.security_context` | Grail data (logs, spans, metrics, events) |
| `settings:dt.security_context` | Settings objects |

Using only one domain leaves gaps in access control. For complete MZ replacement, include all three.

```

```

## ## 7. Recommended Group-Policy-Boundary Structure

For organizations using SAML/SSO with Active Directory, this structure provides clear separation of duties:

```
```
Group: "L0B5-Team" (SAML from Active Directory)
|--- Policy: Dynatrace Viewer (standard read access)
|--- Policy: Dynatrace Professional
|     |--- Boundary:
|     |     environment:management-zone IN ("L0B5");
|     |     storage:dt.security_context IN ("L0B5");
|     |     settings:dt.security_context IN ("L0B5");
````
```

### ### Key Benefits

- \*\*SAML Group\*\*: Ties to existing AD group membership – no separate user management
- \*\*Standard User Policy\*\*: Provides baseline access without boundary (if needed)
- \*\*Pro User + Boundary\*\*: Advanced permissions restricted to team's scope

### ### Alternative: All Policies with Boundary

For stricter isolation, apply the boundary to all policies:

```
```
Group: "L0B5-Team" (SAML from AD)
|--- Policy: Dynatrace Viewer
|     |--- Boundary: L0B5-Scope
|--- Policy: Dynatrace Professional
|     |--- Boundary: L0B5-Scope
````
```

### ### Binding via UI

1. Navigate to \*\*Group Management\*\*
2. Select or create a group
3. Go to \*\*Permissions\*\* tab
4. Click \*\*Add permission\*\*
5. Select:
  - \*\*Policy\*\*: Choose policy to bind
  - \*\*Boundary\*\* (optional): Select restriction
  - \*\*Environment\*\*: Select target environment
6. Click \*\*Save\*\*

## ## 8. Mapping MZ Access to Policies + Boundaries

### ### Common MZ Permission Patterns

## ! [MZ Pattern Mapping]

0iYm9sZCIgZmlsbD0iIzA0Nzg1NyIgdGV4dC1hbhNob3I9Im1pZGRsZSI+U2VjdXJpdHkgQ29udGV  
4dCArIFBvbGljaWVzICsgQm91bmRhcmllczwvdGV4dD4KICA8dGV4dCB4PSI2MjAiIHk9IjEzMCi  
Zm9udC1mYW1pbHk9IkFyaWFsLCBzYW5zLXNlcmlmIiBmb250LXNpemU9IjEwIiBmaWxsPSIjMDQ30  
DU3IiB0ZXh0LWFuY2hvcj0ibwlkZGxlij5kdC5zZN1cml0eV9jb250ZXh0ID0gInRlYW0tZnJvbn  
RlbtQipC90ZXh0PgoKICA8IS0tIFBhdHrlcm4gMjogRW52aXJvbm1lbnQgLS0+CiAgPHJ1Y3QgeD0  
iMzAiIHk9IjE1NSIgd2lkdkG9IjMwMCiagGvpZ2h0PSI0NSIgcng9IjYiIGZpbGw9IiNmZWYzYzci  
IHN0cm9rZT0iI2Y10WuWYiIgc3Ryb2tlLXdpZHRoPSIxIiBmaWx0ZXI9InVybCgjbWFwU2hhZG93K  
SIvPgogIDx0ZXh0IHg9IjE4MCiGeT0iMTc1IiBmb250LWZhbWlseT0iQXJpYwlsIHnhbnMtc2VyaW  
YiIGZvbnQtc2l6ZT0iMTEiIGZvbnQtd2VpZ2h0PSIjib2xkIiBmaWxsPSIjOTI0MDB1IiB0ZXh0LWF  
uY2hvcj0ibwlkZGxlij5FbnZpcm9ubWvudCBNwM8L3RleHQ+CiAgPHRleHQgeD0iMTgwIiB5PSIx  
0TAiIGZvbnQtZmFtaWx5PSJBcmhbCwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMCiagZmlsbD0iI  
zkyNDAwZSIgdGV4dC1hbhNob3I9Im1pZGRsZSI+IiByb2R1Y3Rp24iLCAiU3RhZ2luZyIsICJEZX  
ZlbG9wbWvudCI8L3RleHQ+CogogIDxwYXRoIGQ9Ik0zMzAsMTc3IEw0NzAsMTc3IiBzdHJva2U9IiM  
2NDc00GIiIHN0cm9rZS13aWR0aD0iMiIgZmlsbD0ibm9uZSIgbWFya2VylWVuZD0idXjsKCntYXBB  
cnJvdykiLz4KCiAgPHJ1Y3QgeD0iNDcwIiB5PSIxNTUiIHdpZHRoPSIzMDAiIGhlaWdodD0iNDUiI  
HJ4PSI2IiBmaWxsPSIjZDFmYWU1IiBzdHJva2U9IiMyMmM1NWUiIHN0cm9rZS13aWR0aD0iMSIgZm  
lsdGVyPSJ1cmwoI21hcFNoYWRvdykiLz4KICA8dGV4dCB4PSI2MjAiIHk9IjE3NSIgZm9udC1mYW1  
pbHk9IkFyaWFsLCBzYW5zLXNlcmlmIiBmb250LXNpemU9IjExIiBmb250LXdlaWdodD0iYm9sZCIg  
ZmlsbD0iIzA0Nzg1NyIgdGV4dC1hbhNob3I9Im1pZGRsZSI+Qm91bmRhcmllcyB3aXRoIEVudmlyb  
25tZW50IENvbmrpdGlvbnM8L3RleHQ+CiAgPHRleHQgeD0iNjIwIiB5PSIx0TAiIGZvbnQtZmFtaW  
x5PSJBcmhbCwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMCiagZmlsbD0iIzA0Nzg1NyIgdGV4dC1  
hbhNob3I9Im1pZGRsZSI+c2VjdXJpdHlfY29udGV4dCBzdGFydHNxaXRoICJwcm9kLSI8L3RleHQ+  
CogogIDwhLS0gUGF0dGVybiAz0iBSZwdpb25hbCATLT4KICA8cmVjdCB4PSIzMCiGeT0iMjE1IiB3a  
WR0aD0iMzAwIiBoZWlnaHQ9IjQ1IiByeD0iNiIgZmlsbD0iI2ZlZjNjNyIgc3Ryb2tlPSIjZjU5ZT  
BiIiBzdHJva2Utd2lkdkGg9IjEiIGZpbHrlcj0idXjsKCntYXBtaGFkb3cpIi8+CiAgPHRleHQgeD0  
iMTgwIiB5PSIyMzUiIGZvbnQtZmFtaWx5PSJBcmhbCwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIx  
MSIgZm9udC13ZWlnaHQ9ImJvbGQiIGZpbGw9IiM5MjQwMGUiIHRleHQtYW5jaG9yPSJtaWRkbGUip  
lJlZ2lvbmFsL0dlb2dyYXBoawMgTVpzPC90ZXh0PgoogIDx0ZXh0IHg9IjE4MCiGeT0iMjUwIiBmb2  
50LWZhbWlseT0iQXJpYwlsIHnhbnMtc2VyaWYiIGZvbnQtc2l6ZT0iMTAiIGZpbGw9IiM5MjQwMGU  
iIHRleHQtYW5jaG9yPSJtaWRkbGUipij0QS1FYXN0IiwigkVVVLVd1c3QilCAiQVBBQyI8L3RleHQ+  
CogogIDxwYXRoIGQ9Ik0zMzAsMjM3IEw0NzAsMjM3IiBzdHJva2U9IiM2NDc00GIiIHN0cm9rZS13a  
WR0aD0iMiIgZmlsbD0ibm9uZSIgbWFya2VylWVuZD0idXjsKCntYXBBcnJvdykiLz4KCiAgPHJ1Y3  
QgeD0iNDcwIiB5PSIxMTUiIHdpZHRoPSIzMDAiIGhlaWdodD0iNDUiIHJ4PSI2IiBmaWxsPSIjZDF  
mYWU1IiBzdHJva2U9IiMyMmM1NWUiIHN0cm9rZS13aWR0aD0iMSIgZmlsdGVyPSJ1cmwoI21hcFNo  
YWRvdykiLz4KICA8dGV4dCB4PSI2MjAiIHk9IjIzNSIgZm9udC1mYW1pbHk9IkFyaWFsLCBzYW5zL  
XNlcmlmIiBmb250LXNpemU9IjExIiBmb250LXdlaWdodD0iYm9sZCIgZmlsbD0iIzA0Nzg1NyIgdG  
V4dC1hbhNob3I9Im1pZGRsZSI+U2VnbWvudHMgd2l0aCBSZwdpb24gRmlsdGVyZwvdGV4dD4KICA  
8dGV4dCB4PSI2MjAiIHk9IjI1MCiagZm9udC1mYW1pbHk9IkFyaWFsLCBzYW5zLXNlcmlmIiBmb250  
LXNpemU9IjEwIiBmaWxsPSIjMDQ30DU3IiB0ZXh0LWFuY2hvcj0ibwlkZGxlij5tYXRjaGVzVmFsd  
WUodGFnciywgInJlZ2lvbjp1cy1lYXN0LTEiKTwdGV4dD4KCiAgPCEtLSBQYXR0ZXJuIDQ6IEFwcG  
xpY2F0aW9uIC0tPgogIDxyZWN0IHg9IjMwIiB5PSIyNzUiIHdpZHRoPSIzMDAiIGhlaWdodD0iNDU  
iIHZ4PSI2IiBmaWxsPSIjZmVmM2M3IiBzdHJva2U9IiNmNTlIIMGiIiHN0cm9rZS13aWR0aD0iMSIg  
ZmlsdGVyPSJ1cmwoI21hcFNoYWRvdykiLz4KICA8dGV4dCB4PSIx0DAiIHk9IjI5NSIgZm9udC1mY  
W1pbHk9IkFyaWFsLCBzYW5zLXNlcmlmIiBmb250LXNpemU9IjExIiBmb250LXdlaWdodD0iYm9sZC  
IgZmlsbD0iIzkyNDAwZSIgdGV4dC1hbhNob3I9Im1pZGRsZSI+QXBwbGljYXRpb24tQmFzZWQgTVp  
zPC90ZXh0PgoogIDx0ZXh0IHg9IjE4MCiGeT0iMzEwIiBmb250LWZhbWlseT0iQXJpYwlsIHnhbnMt  
c2VyaWYiIGZvbnQtc2l6ZT0iMTAiIGZpbGw9IiM5MjQwMGUiIHRleHQtYW5jaG9yPSJtaWRkbGUip  
iJQYXltZW50LVN5c3RlbtSiSICJVC2VylVBvcnRhbcI8L3RleHQ+CogogIDxwYXRoIGQ9Ik0zMzAsMj

```

k3IEw0NzAsMjk3IiBzdHJva2U9IiM2NDc00GIiIH0cm9rZS13aWR0aD0iMiIgZmlsbD0ibm9uZSI
gbWFya2VvLWVuZD0idXJsKCNTYXBcnJvdkiLz4KCiAgPHJLY3QgeD0iNDcwIiB5PSIyNzUiIHdp
ZHRoPSIzMDAiIGHlaWdodD0iNDUiIHJ4PSI2IiBmaWxsPSIjZDFmYWU1IiBzdHJva2U9IiMyMmM1N
WUiIH0cm9rZS13aWR0aD0iMSIgZmlsdGVyPSJ1cmwoI21hcFNoYWRvdykiLz4KICA8dGV4dCB4PS
I2MjAiIHk9IjI5NSIgZm9udC1mYW1pbHk9IkFyaWFsLCBzYW5zLXNlcmlmIiBmb250LXNpemU9IjE
xIiBmb250LXdlaWdodD0iYm9sZCIgZmlsbD0iIzA0Nzg1NyIgdGV4dC1hbmNob3I9Im1pZGRsZSI+
U2VnbWVudHMgd2l0aCBTZJ2aWNlIEZpbHrlcnM8L3RleHQ+CiAgPHRleHQeD0iNjIwIiB5PSIzMT
TAiIGZvbnQtZmFtaWx5PSJBcmhbCwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMCigZmlsbD0iIz
A0Nzg1NyIgdGV4dC1hbmNob3I9Im1pZGRsZSI+bWF0Y2hlc1BocmFzZShzZXJ2aWNlLm5hbWUsICJ
wYXltZW50Iik8L3RleHQ+CgogIDwhLS0gS2V5IGluc2lnaHQgLS0+CiAgPHJLY3QgeD0iMzAiIHk9
IjMzMCigd2lkdGg9Ijc0MCIgaGVpZ2h0PSIyMiIgcng9IjQiIGZpbGw9IiNlMGYyZmUiLz4KICA8d
GV4dCB4PSI0MDAiIHk9IjM0NSIgZm9udC1mYW1pbHk9IkFyaWFsLCBzYW5zLXNlcmlmIiBmb250LX
NpemU9IjEwIiBmaWxsPSIjMDM20WExIiB0ZXh0LWFuY2hvcj0ibWlkZGxlIj5LZXk6IFRlYW0vRW5
2aXJvbmlbnQg4oaSIEJvdW5kYXJpZXmgZm9yIGFjY2VzcyBjb250cm9sIHwgUmVnaW9uL0FwcGxp
Y2F0aW9uI0KGkiBTZwdtZW50cyBmb3IgZGF0YSBmaWx0ZXJpbmc8L3RleHQ+Cjwvc3ZnPgo=)

```

| MZ Permission     | Equivalent Policy + Boundary             |
|-------------------|------------------------------------------|
| View only         | `Dynatrace Viewer` + Boundary            |
| View + Edit       | `Dynatrace Standard User` + Boundary     |
| Full access to MZ | `Dynatrace Professional User` + Boundary |
| Admin in MZ       | Custom policy + Boundary                 |

### ### Migration Example: Team-Based MZ

#### \*\*Before (MZ-based):\*\*

- Management Zone: "Frontend-Team"
- Rules: Services with tag `team:frontend`
- Users assigned via RBAC

#### \*\*After (Policy + Boundary):\*\*

```

##### 1. Set security context on entities:

- Services get dt.security\_context = "team-frontend"

##### 2. Create boundary:

Name: Frontend Team Scope

Query:

```

environment:management-zone IN ("Frontend-Team");
storage:dt.security_context IN ("team-frontend");
settings:dt.security_context IN ("team-frontend");

```

##### 3. Bind to group:

Group: Frontend Developers (SAML)

Policy: Dynatrace Standard User

Boundary: Frontend Team Scope

```

```
### Migration Example: Environment MZ

**Before (MZ-based):**
- Management Zone: "Production"
- Rules: Hosts with tag `env:production`
- Users get MZ-filtered view

**After (Policy + Boundary):**
```
1. Set security context on entities:
   - Hosts get dt.security_context = "prod-{region}"

2. Create boundary:
   Name: Production Environment
   Query:
   environment:management-zone IN ("Production");
   storage:dt.security_context startsWith "prod-";
   settings:dt.security_context startsWith "prod-";

3. Bind to group:
   Group: Production Operators (SAML)
   Policy: Dynatrace Professional User
   Boundary: Production Environment
```
---
```

## ## 9. Security Context Configuration

### ### What Is Security Context?

**Security Context** (`dt.security\_context`) is an entity attribute used for access control. It's the recommended way to scope boundaries for Grail data.

### ### Setting Security Context

Security context can be set via:

- **Auto-tagging rules**
- **OneAgent configuration**
- **API**
- **Settings UI**

### ### Security Context Naming Strategy

| Pattern | Example | Use Case |
|---------|---------|----------|
|         |         |          |

```
`team-{name}`	`team-frontend`	Team ownership
`env-{name}`	`env-production`	Environment separation
`region-{code}`	`region-us-east`	Geographic isolation
`app-{name}`	`app-checkout`	Application scoping
`${env}-{team}`	`prod-frontend`	Combined scoping
```

### ### Query Entities by Security Context

```
```dql
// List services with their security context
// Identify services that need security context assignment
fetch dt.entity.service
| fields entity.name,
  dt.security_context,
  tags,
  managementZones
| sort dt.security_context asc
| limit 50
```

```

```
```dql
// Count entities by security context
// Helps verify security context distribution
fetch dt.entity.service
| summarize count = count(), by:{dt.security_context}
| sort count desc
```

```

---

## ## 10. Custom Policies

### ### When to Create Custom Policies

- Default policies are too broad or narrow
- Need specific permission combinations
- Require conditional access
- Compliance requirements

### ### Custom Policy Examples

```
**Log Viewer for Specific Team:**
```
// Policy Name: Frontend Team Log Access
// Description: Read-only access to frontend service logs
```

```
ALLOW storage:logs:read
  WHERE storage:dt.security_context = "team-frontend"
```

```

ALLOW storage:spans:read
  WHERE storage:dt.security_context = "team-frontend"
```

**Environment-Restricted Admin:** 
```
// Policy Name: Development Admin
// Description: Full access to development environment only

ALLOW storage:***:*
  WHERE storage:dt.security_context startsWith "dev-"

ALLOW settings:objects:*
  WHERE settings:scope startsWith "environment:dev"
```

**Dashboard and Notebook Creator:** 
```
// Policy Name: Dashboard Creator
// Description: Create and manage dashboards and notebooks

ALLOW document:documents:read
ALLOW document:documents:write
ALLOW document:documents:delete
ALLOW document:documents:share

// Read data for dashboards
ALLOW storage:logs:read
ALLOW storage:metrics:read
ALLOW storage:spans:read
```

---


## 11. Best Practices

### Do's



- **Start with default policies** – customize only when needed
- **Use least privilege** – grant minimum required permissions
- **Document policies and boundaries** – clear names and descriptions
- **Test before production** – verify with test users
- **Use boundaries for scope** – keep policies reusable
- **Include all three domains** in boundaries for complete MZ replacement
- **Use SAML groups** tied to AD for team management



### Don'ts

```

- ✘ \*\*Don't create policy per user\*\* – use groups
- ✘ \*\*Don't duplicate default policies\*\* – extend instead
- ✘ \*\*Don't use overly broad wildcards\*\* – be specific
- ✘ \*\*Don't embed conditions in policies\*\* when boundaries are better
- ✘ \*\*Don't forget the settings domain\*\* in boundaries

### ### Naming Conventions

```

```
// Good names
"Frontend Team - Standard Access"      (policy)
"Production Environment"                (boundary)
"LOB5-Scope"                           (boundary)
```

### // Bad names

```
"Policy 1"
"Test"
"John's boundary"
```

```

### ### Audit Checklist

- [ ] Each boundary has a clear purpose
- [ ] Boundary names follow naming convention
- [ ] All three domains included (environment, storage, settings)
- [ ] SAML groups aligned with AD structure
- [ ] Dependencies tracked (which policies use which boundaries)
- [ ] Regular review scheduled

---

## ## 12. Troubleshooting

### ### Common Issues

| Issue                        | Likely Cause                  | Solution                       |
|------------------------------|-------------------------------|--------------------------------|
| User can't access anything   | No policy bound               | Bind policy to user's group    |
| User sees too much           | Boundary too broad or missing | Tighten boundary conditions    |
| User can't see expected data | Missing data policy           | Add Data Viewer/Editor         |
| Permissions inconsistent     | Multiple conflicting policies | Review all bound policies      |
| Works in classic, not Grail  | Only environment domain used  | Add storage domain to boundary |

```
| Settings not restricted | Missing settings domain | Add  
settings:dt.security_context |  
  
### Debugging Steps  
  
1. **Verify group membership**: Is user in correct group?  
2. **Check policy bindings**: What policies are bound to group?  
3. **Review boundaries**: Are all three domains included?  
4. **Test with admin**: Does admin see the data?  
5. **Check security context**: Is it set on the entities?
```

#### ### Testing Boundaries

1. \*\*Create test user\*\* in target group
2. \*\*Log in as test user\*\*
3. \*\*Verify access\*\*:
  - Can access expected data?
  - Cannot access restricted data?
4. \*\*Test edge cases\*\*:
  - Entities at boundary edges
  - New entities without security context

---

#### ## Summary

In this notebook, you learned:

1. \*\*Policies define WHAT\*\*, boundaries define \*\*WHERE\*\*
2. \*\*Default policies\*\* cover most use cases – customize only when needed
3. \*\*Shared syntax\*\* for conditions in both policies and boundaries
4. \*\*Three domains\*\* needed for complete MZ replacement (environment, storage, settings)
5. \*\*SAML + Policy + Boundary\*\* structure for AD integration
6. \*\*Migration patterns\*\* for team-based and environment-based MZs

#### ## Next Steps

Continue to \*\*MZ2POL-05: Segments Implementation\*\* to:

- Create DQL-based data filters
- Replace MZ data filtering with Segments
- Configure cross-app filtering

#### ## Additional Resources

- [Working with Policies](<https://docs.dynatrace.com/docs/manage/identity-access-management/permission-management/manage-user-permissions-policies>)
- [IAM Policy Reference](<https://docs.dynatrace.com/docs/manage/identity-access-management/iam-policy-reference>)

```
access-management/permission-management/manage-user-permissions-
policies/advanced/iam-policystatements)
– [Policy Boundaries Documentation]
(https://docs.dynatrace.com/docs/manage/identity-access-management/permission-management/manage-user-permissions-policies/iam-policy-boundaries)
– [Grant Access with Security Context]
(https://docs.dynatrace.com/docs/manage/identity-access-management/use-cases/access-security-context)
```