

MZ2POL-02: Understanding the New Access Control Model

```
> **Series:** MZ2P0L | **Notebook:** 3 of 8 | **Created:** December 2025
```

Overview

This notebook provides a deep dive into the **ABAC (Attribute-Based Access Control)** framework that replaces Management Zones for access control. You'll learn how Policies, Boundaries, and Segments work together to provide flexible, scalable access management.

Prerequisites

- Completed MZ2POL-01: Introduction
- Access to Dynatrace Account Management
- Understanding of current Management Zone configuration

Learning Objectives

By the end of this notebook, you will:

1. Understand the ABAC framework architecture
2. Know the relationship between Policies, Boundaries, and Segments
3. Understand how permissions flow through the system
4. Be able to map MZ concepts to the new model

■■■■■ ■■■■■ ■■■■■

1. ABAC Framework Architecture

The Permission Flow

! [ABAC Framework]

(

Ij4KICAgICAgPHN0b3Agb2Zmc2V0PSIwJSIgc3R5bGU9InN0b3AtY29sb3I6I2VjNDg50TtZdG9wLW9wYWNpdHk6MSIgZ4KICAgICAgPHN0b3Agb2Zmc2V0PSIxMDAlIiBzdHlsZT0ic3RvcC1jb2xvcjojZGIyNzc303N0b3Atb3BhY2l0eToxIiAvPgogICAgPC9saW5lYXJHcmFkaWVudD4KICAgIDxsaw5lYXJHcmFkaWVudCBpZD0ic2VnbWVudEdyYWQIiHgxPSIwJSIgeTE9IjAlIiB4Mj0iMTAwJSIgeTI9IjEwMCUiPgogICAgICA8c3RvcCBvZmZzZXQ9IjAlIiBzdHlsZT0ic3RvcC1jb2xvcjojMTBiOTgx03N0b3Atb3BhY2l0eToxIiAvPgogICAgICA8c3RvcCBvZmZzZXQ9IjEwMCUiIHN0eWxlPSJzdG9wLWNvbG9y0iMwNTk2Njk7c3RvcC1vcGFjaXR50jEiIC8+CiAgICA8L2xpbmVhckdyYWRpZW50PgogICAgPGxpbmVhckdyYWRpZW50IGlkPSJkYXRhR3JhZCIgeDE9IjAlIiB5MT0iMCUiIHgyPSIxMDAlIiB5Mj0iMTAwJSI+CiAgICAgIDxdG9wIG9mZnNldD0iMCUiIHN0eWxlPSJzdG9wLWNvbG9y0iNmNTlLMGI7c3RvcC1vcGFjaXR50jEiIC8+CiAgICAgIDxdG9wIG9mZnNldD0iMTAwJSIgc3R5bGU9InN0b3AtY29sb3I6I2Q5NzcwNjtdG9wLW9wYWNpdHk6MSIgZ4KICAgIDwvbluZWFyR3JhZGllbnQ+CiAgICA8ZmlsdGvYIGlkPSJhYmFjU2hhZG93Ij4KICAgICAgPGZlRHJvcFNoYWRvdyBkeD0iMiIgZHK9IjIiIHN0ZERldmlhdGlvbj0iMyIgZmxvb2Qtb3BhY2l0eT0iMC4xNSIvPgogICAgPC9maWx0ZXI+CiAgICA8bWfya2VyIGlkPSJhYmFjQXJyb3ciIG1hcmTlcldpZHRoPSIxMCIgbWfya2VySGVpZ2h0PSI3IiByZWZPSI5IiByZWZPSIzLjUiIG9yaWVudD0iYXV0byI+CiAgICAgIDxwb2x5Z29uIHBvaW50cz0iMCAwLCAxMCAzLjUsIDAgNyIgZmlsbD0iIzY0NzQ4YiIvPgogICAgPC9tYXJrZXI+CiAgPC9kZWZzPgoKICA8IS0tIEJhY2tncm91bmQgLS0+CiAgPHJlY3Qgd2lkdgG9IjgwMCIgaGVpZ2h0PSIz0DAiIGZpbGw9IiNmOGY5ZmEiIHJ4PSIxMCIvPgoKICA8IS0tIFRpdGxlcIC0tPgogIDx0ZXh0IHg9IjQwMCIgeT0iMjgiIGZvbnQtZmFtaWx5PSJBcmllbCwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIx0CIgZm9udC13ZWlnaHQ9ImJvbGQiIGZpbGw9ImZmZmIiHRleHQTYW5jaG9yPSJtaWRkbGUiPkFCQUMgRnJhbWV3b3JrIC0gUGVybWlzc2lvbiBGbG93PC90ZXh0PgogIDx0ZXh0IHg9IjQwMCIgeT0iNDgiIGZvbnQtZmFtaWx5PSJBcmllbCwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMiIgZmlsbD0iIzY2NiIgdGV4dC1hbmNob3I9Im1pZGRsZSI+VXNlcidihpIgr3JvdXAg4oaSIFBvbGljeSAoKyBCb3VuZGFyeSk4oaSIFBlcm1pc3Npb24gfCBTZWdtZW50I0KGkiBGaWx0ZXJlZCBEYXRhPC90ZXh0PgoKICA8IS0tIFVzZXIgLs0+CiAgPHJlY3QgeD0iMzAiIHk9IjEwMCIgd2lkdgG9IjEwMCIgaGVpZ2h0PSI3MCIgcng9IjgiIGZpbGw9InVybcGjdXNlcldyYWQPIiBmaWx0ZXI9InVybcGjYwJhY1NoYWRvdykiLz4KICA8dGV4dCB4PSI4MCIgeT0iMTMwIiBmb250LWZhbWlseT0iQXJpYWwsIHhbnMtc2VyaWYiIGZvbnQt2l6ZT0iMTIiIGZvbnQt2VpZ2h0PSJib2xkiBmaWxsPSJ3aGl0ZSIgdGV4dC1hbmNob3I9Im1pZGRsZSI+VXNlcjwvdGV4dD4KICA8dGV4dCB4PSI4MCIgeT0iMTQ4IiBmb250LWZhbWlseT0iQXJpYWwsIHhbnMtc2VyaWYiIGZvbnQt2l6ZT0iMTAiIGZpbGw9InJnYmEoMjU1LDI1NSwyNTUsMC45KSIgdGV4dC1hbmNob3I9Im1pZGRsZSI+SWRlbnRpdHk8L3RleHQ+CiAgPHRleHQgeD0i0DAiIHk9IjE2MCIgZm9udC1mYW1pbHk9IkFyaWFsLCBzYW5zLXNlcmlmIiBmb250LXNpemU9IjEwIiBmaWxsPSJyZ2JhKDI1NSwyNTUsMjU1LDAu0SkiIHRleHQTYW5jaG9yPSJtaWRkbGUiPihTQU1ML1NTTyk8L3RleHQ+CGogIDwhLS0gQXJyb3cgVXNlcidB0byBHcm91cCAtLT4KICA8cGF0aCBkPSJNMtMwLDEzNSBMMTcwLDEzNSIgc3Ryb2t1PSIjNjQ3NDhiIiBzdHJva2Utd2lkdgG9IjIiIGZpbGw9Im5vbmUiIG1hcmTlcid1bmQ9InVybcGjYwJhY0Fycm93KSIvPgoKICA8IS0tIEdyb3VwIC0tPgogIDxyZWNoIHg9IjE4MCIgeT0iMTAwIiB3aWR0aD0iMTAwIiBoZWlnaHQ9IjcwIiByeD0i0CIgZmlsbD0idXJsKCNncm91cEdyYWQPIiBmaWx0ZXI9InVybcGjYwJhY1NoYWRvdykiLz4KICA8dGV4dCB4PSIyMzAiIHk9IjE4MCIgZm9udC1mYW1pbHk9IkFyaWFsLCBzYW5zLXNlcmlmIiBmb250LXNpemU9IjEyIiBmb250LXdlaWdodD0iYm9sZCIgZmlsbD0id2hpdGUiIHRleHQTYW5jaG9yPSJtaWRkbGUiPkdyb3VwPC90ZXh0PgogIDx0ZXh0IHg9IjIjZmCIgeT0iMTQ4IiBmb250LWZhbWlseT0iQXJpYWwsIHhbnMtc2VyaWYiIGZvbnQt2l6ZT0iMTAiIGZpbGw9InJnYmEoMjU1LDI1NSwyNTUsMC45KSIgdGV4dC1hbmNob3I9Im1pZGRsZSI+Q29sbGVjdGlvbiBvZjwvdGV4dD4KICA8dGV4dCB4PSIyMzAiIHk9IjE2MCIgZm9udC1mYW1pbHk9IkFyaWFsLCBzYW5zLXNlcmlmIiBmb250LXNpemU9IjEwIiBmaWxsPSJyZ2JhKDI1NSwyNTUsMjU1LDAu0SkiIHRleHQTYW5jaG9yPSJtaWRkbGUiPnVzZXJzICBRC9TQU1MKTwdGV4dD4KCIAgPCEtLSBBcnJvdyBHcm91cCB0byBQb2xpy3kgLS0+CiAgPHBhdGggZD0iTTI4MCwxMzUgTDMYMCwxMzUuIiHN0cm9rZT0iIzY0NzQ4YiIgc3Ryb2t1LlXdpZHRoPSIyIiBmaWxsPSJub25lIiBtYXJrZXItdW5kPSJ1cmwoI2FiYWNBcnJvdykiLz4KCIAgPCEtLSBQb2xpy3kgLS0+CiAgPHJlY3QgeD0iMzMw

IiB5PSI4MCigd2lkdGg9IjEyMCIGAaGvPz2h0PSI5MCigcng9IjgiIGZpbGw9InVybgCgjcG9saWN5R3JhZCkiIGZpbHRlcj0idXJsKCNhYmFjU2hhZG93KSIVpgogIDx0ZXh0IHg9IjM5MCIgeT0iMTEwIiBmb250LWZhbWlseT0iQXJpYWwsIHNhbnMtc2VyaWYiIGZvbnQtc2l6ZT0iMTIiIGZvbnQtd2VpZ2h0PSJib2xkiIbMaWxsPSJ3aGl0ZSIgdGV4dC1hbmNob3I9Im1pZGRsZSI+UG9saWN5PC90ZXh0PgogIDx0ZXh0IHg9IjM5MCIgeT0iMTI4IiBmb250LWZhbWlseT0iQXJpYWwsIHNhbnMtc2VyaWYiIGZvbnQtc2l6ZT0iMTAiIGZpbGw9InJnYmEoMjU1LDI1NSwyNTUsMC45KSIGdGV4dC1hbmNob3I9Im1pZGRsZSI+V0hBVCBhY3Rpb25zPC90ZXh0PgogIDx0ZXh0IHg9IjM5MCIgeT0iMTQyIiBmb250LWZhbWlseT0iQXJpYWwsIHNhbnMtc2VyaWYiIGZvbnQtc2l6ZT0iMTAiIGZpbGw9InJnYmEoMjU1LDI1NSwyNTUsMC45KSIGdGV4dC1hbmNob3I9Im1pZGRsZSI+YXJlIGFsbG93ZWQ8L3RleHQ+CiAgPHRleHQgeD0iMzkwiIB5PSIxNjAiIGZvbnQtZmFtaWx5PSJtb25vc3BhY2UiIGZvbnQtc2l6ZT0iMTAiIGZpbGw9InJnYmEoMjU1LDI1NSwyNTUsMC44KSIGdGV4dC1hbmNob3I9Im1pZGRsZSI+QUxMT1cgbG9nczpyZWZkPC90ZXh0PgoKICA8IS0tIEJvdW5kYXJ5IChjb25uZWNoZWQgdG8gUG9saWN5KSAAtLT4KICA8cmVjdCB4PSIzMzAiIHk9IjE4NSIGd2lkdGg9IjEyMCIGAaGvPz2h0PSI3MCigcng9IjgiIGZpbGw9InVybgCgJYm91bmRhcmlHcmFkKSIGZmlsdGVyPSJ1cmwoI2FiYWNTaGFkb3cpIi8+CiAgPHRleHQgeD0iMzkwiIB5PSIyMTIiIGZvbnQtZmFtaWx5PSJBcmllbCwg2Fucy1zZXJpZiIgZm9udC1zaXpLPSIxMiIgZm9udC13ZWlnaHQ9ImJvbGQiIGZpbGw9IndoaXRlIiB0ZXh0LWFuY2hvcj0ibWlkZGxliJ5Cb3VuZGFyeTwvdGV4dD4KICA8dGV4dCB4PSIz0TAiIHk9IjIzMCIGZm9udC1mYW1pbHk9IkFyaWFsLCBzYW5zLXNlcmIiBmb250LXNpemU9IjEwIiBmaWxsPSJyZ2JhKDI1NSwyNTUsMjU1LDAuOSkiIH RleHQtYW5jaG9yPSJtaWRkbGUlPlldIRVJFIHbVbGljeTwvdGV4dD4KICA8dGV4dCB4PSIz0TAiIHk9IjI0NCIGZm9udC1mYW1pbHk9IkFyaWFsLCBzYW5zLXNlcmIiBmb250LXNpemU9IjEwIiBmaWxsPSJyZ2JhKDI1NSwyNTUsMjU1LDAuOSkiIHRleHQtYW5jaG9yPSJtaWRkbGUlPmFwcGxpZXMGKHNjb3BlKTwdGV4dD4KICiAgPCEtLSBDb25uZWNoaW9uIGxpbmUgUG9saWN5IHRvIEJvdW5kYXJ5IC0tPgogIDxsaW5lIHgxPSIz0TAiIHkxPSIxNzAiIHgyPSIz0TAiIHkyPSIx0DUiIHNo0cm9rZT0iIzY0NzQ4YiIGc3Ryb2tllXdpZHRoPSIyIiBzdHJva2UtZGFzaGFycmF5PSI0LDIiLz4KICA8dGV4dCB4PSIz0TUiIHk9IjE4MCIGZm9udC1mYW1pbHk9IkFyaWFsLCBzYW5zLXNlcmIiBmb250LXNpemU9IjEwIiBmaWxsPSIjNjQ3NDhiIj4rPC90ZXh0PgoKICA8IS0tIEFycm93IFBvbGljeSB0byBQZXJtaXNzaW9uIC0tPgogIDxwYXR0IGQ9Ik00NTAsMTI1IEw1MTAsMTI1IiBzdHJva2U9IiM2NDc00GIiIHNo0cm9rZS13aWR0aD0iMiIgZmlsbD0ibm9uZSIgbWYya2VyLWVuZD0idXJsKCNhYmFjQXJyb3cpIi8+CgogIDwhLS0gUGVyblzc2l6b250LWZhbWlseT0iQXJpYWwsIHNhbnMtc2VyaWYiIGZvbnQtd2VpZ2h0PSJib2xkiIbMaWxsPSJ3aGl0ZSIgdGV4dC1hbmNob3I9Im1pZGRsZSI+UGVybWlzc2l6b250LWZhbWlseT0iQXJpYWwsIHNhbnMtc2VyaWYiIGZvbnQtd2VpZ2h0PSJib2xkiIbMaWxsPSJ3aGl0ZSIgdGV4dC1hbmNob3I9Im1pZGRsZSI+UGVybWlzc2l6b250LWZhbWlseT0iQXJpYWwsIHNhbnMtc2VyaWYiIGZvbnQtd2VpZ2h0PSJib2xkiIbMaWxsPSIjNjQ3NDhiIj4rPC90ZXh0PgoKICA8IS0tIEFycm93IFBvbGljeSB0byBQZXJtaXNzaW9uIC0tPgogIDxwYXR0IGQ9Ik00NTAsMTI1IEw1MTAsMTI1IiBzdHJva2U9IiM2NDc00GIiIHNo0cm9rZS13aWR0aD0iMiIgZmlsbD0ibm9uZSIgbWYya2VyLWVuZD0idXJsKCNhYmFjQXJyb3cpIi8+CgogIDwhLS0gUGVyblzc2l6b250LWZhbWlseT0iQXJpYWwsIHNhbnMtc2VyaWYiIGZvbnQtd2VpZ2h0PSJib2xkiIbMaWxsPSIjNjQ3NDhiIj4rPC90ZXh0PgoKICA8IS0tIEFycm93IFBvbGljeSB0byBQZXJtaXNzaW9uIC0tPgogIDxwYXR0IGQ9Ik00NTAsMTI1IEw1MTAsMTI1IiBzdHJva2U9IiM2NDc00GIiIHNo0cm9rZS13aWR0aD0iMiIgZmlsbD0ibm9uZSIgbWYya2VyLWVuZD0idXJsKCNhYmFjQXJyb3cpIi8+CgogIDwhLS0gUGVyblzc2l6b250LWZhbWlseT0iQXJpYWwsIHNhbnMtc2VyaWYiIGZvbnQtd2VpZ2h0PSJib2xkiIbMaWxsPSIjNjQ3NDhiIj4rPC90ZXh0PgoKICA8IS0tIEFycm93IFBvbGljeSB0byBQZXJtaXNzaW9uIC0tPgogIDxwYXR0IGQ9Ik00NTAsMTI1IEw1MTAsMTI1IiBzdHJva2U9IiM2NDc00GIiIHNo0cm9rZS13aWR0aD0iMiIgZmlsbD0ibm9uZSIgbWYya2VyLWVuZD0idXJsKCNhYmFjQXJyb3cpIi8+CgogIDwhLS0gUGVyblzc2l6b250LWZhbWlseT0iQXJpYWwsIHNhbnMtc2VyaWYiIGZvbnQtd2VpZ2h0PSJib2xkiIbMaWxsPSIjNjQ3NDhiIj4rPC90ZXh0PgoKICA8IS0tIEFycm93IFBvbGljeSB0byBQZXJtaXNzaW9uIC0tPgogIDxwYXR0IGQ9Ik00NTAsMTI1IEw1MTAsMTI1IiBzdHJva2U9IiM2NDc00GIiIHNo0cm9rZS13aWR0aD0iMiIgZmlsbD0ibm9uZSIgbWYya2VyLWVuZD0idXJsKCNhYmFjQXJyb3cpIi8+CgogIDwhLS0gUGVyblzc2l6b250LWZhbWlseT0iQXJpYWwsIHNhbnMtc2VyaWYiIGZvbnQtd2VpZ2h0PSJib2xkiIbMaWxsPSIjNjQ3NDhiIj4rPC90ZXh0PgoKICA8IS0tIEFycm93IFBvbGljeSB0byBQZXJtaXNzaW9uIC0tPgogIDxwYXR0IGQ9Ik00NTAsMTI1IEw1MTAsMTI1IiBzdHJva2U9IiM2NDc00GIiIHNo0cm9rZS13aWR0aD0iMiIgZmlsbD0ibm9uZSIgbWYya2VyLWVuZD0idXJsKCNhYmFjQXJyb3cpIi8+CgogIDwhLS0gUGVyblzc2l6b250LWZhbWlseT0iQXJpYWwsIHNhbnMtc2VyaWYiIGZvbnQtd2VpZ2h0PSJib2xkiIbMaWxsPSIjNjQ3NDhiIj4rPC90ZXh0PgoKICA8IS0tIEFycm93IFBvbGljeSB0byBQZXJtaXNzaW9uIC0tPgogIDxwYXR0IGQ9Ik00NTAsMTI1IEw1MTAsMTI1IiBzdHJva2U9IiM2NDc00GIiIHNo0cm9rZS13aWR0aD0iMiIgZmlsbD0ibm9uZSIgbWYya2VyLWVuZD0idXJsKCNhYmFjQXJyb3cpIi8+CgogIDwhLS0gUGVyblzc2l6b250LWZhbWlseT0iQXJpYWwsIHNhbnMtc2VyaWYiIGZvbnQtd2VpZ2h0PSJib2xkiIbMaWxsPSIjNjQ3NDhiIj4rPC90ZXh0PgoKICA8IS0tIEFycm93IFBvbGljeSB0byBQZXJtaXNzaW9uIC0tPgogIDxwYXR0IGQ9Ik00NTAsMTI1IEw1MTAsMTI1IiBzdHJva2U9IiM2NDc00GIiIHNo0cm9rZS13aWR0aD0iMiIgZmlsbD0ibm9uZSIgbWYya2VyLWVuZD0idXJsKCNhYmFjQXJyb3cpIi8+CgogIDwhLS0gUGVyblzc2l6b250LWZhbWlseT0iQXJpYWwsIHNhbnMtc2VyaWYiIGZvbnQtd2VpZ2h0PSJib2xkiIbMaWxsPSIjNjQ3NDhiIj4rPC90ZXh0PgoKICA8IS0tIEFycm93IFBvbGljeSB0byBQZXJtaXNzaW9uIC0tPgogIDxwYXR0IGQ9Ik00NTAsMTI1IEw1MTAsMTI1IiBzdHJva2U9IiM2NDc00GIiIHNo0cm9rZS13aWR0aD0iMiIgZmlsbD0ibm9uZSIgbWYya2VyLWVuZD0idXJsKCNhYmFjQXJyb3cpIi8+CgogIDwhLS0gUGVyblzc2l6b250LWZhbWlseT0iQXJpYWwsIHNhbnMtc2VyaWYiIGZvbnQtd2VpZ2h0PSJib2xkiIbMaWxsPSIjNjQ3NDhiIj4rPC90ZXh0PgoKICA8IS0tIEFycm93IFBvbGljeSB0byBQZXJtaXNzaW9uIC0tPgogIDxwYXR0IGQ9Ik00NTAsMTI1IEw1MTAsMTI1IiBzdHJva2U9IiM2NDc00GIiIHNo0cm9rZS13aWR0aD0iMiIgZmlsbD0ibm9uZSIgbWYya2VyLWVuZD0idXJsKCNhYmFjQXJyb3cpIi8+CgogIDwhLS0gUGVyblzc2l6b250LWZhbWlseT0iQXJpYWwsIHNhbnMtc2VyaWYiIGZvbnQtd2VpZ2h0PSJib2xkiIbMaWxsPSIjNjQ3NDhiIj4rPC90ZXh0PgoKICA8IS0tIEFycm93IFBvbGljeSB0byBQZXJtaXNzaW9uIC0tPgogIDxwYXR0IGQ9Ik00NTAsMTI1IEw1MTAsMTI1IiBzdHJva2U9IiM2NDc00GIiIHNo0cm9rZS13aWR0aD0iMiIgZmlsbD0ibm9uZSIgbWYya2VyLWVuZD0idXJsKCNhYmFjQXJyb3cpIi8+CgogIDwhLS0gUGVybl

LDE2NSIgc3Ryb2t1PSIjNjQ3NDhiIiBzdHJva2Utd2lkdGg9IjIiIGZpbGw9Im5vbmUiIG1hcmtlc
i1l1bmQ9InVybCg9YwJhY0Fycm93KSIvPgogIDxwYXRoIGQ9Ik02NDAsMjM1IEw2ODAsMjA1IiBzdH
Jva2U9IiM2NDc0G0IiIHNoZm9rZS13aWR0aD0iMiIgZmlsbD0ibm9uZSIgbWYya2VyLWVuZD0idXJ
sKCNhYmFjQXJyY3cpIi8+CgogIDwhLS0gRmlsdGVyZWQgRGF0YSAAtLT4KICA8cmVjdCB4PSI20TAi
IHk9IjE2MCIGd2lkdGg9IjkwIiBoZWlnaHQ9IjYwIiByeD0iOICigZmlsbD0idXJsKCNkYXRhR3JhZ
CkiIGZpbHRlcj0idXJsKCNhYmFjU2hhZG93KSIvPgogIDx0ZXh0IHg9IjczNSIgeT0iMTg1IiBmb2
50LWZhbwLseT0iQXJpYWwsIHhbnMtc2VyaWYiIGZvbnQtc2l6ZT0iMTEiIGZvbnQtd2VpZ2h0PSJ
ib2xkIiBmaWxsPSJ3aGl0ZSIgdGV4dC1hbmNob3I9Im1pZGRsZSI+RmlsdGVyZWQ8L3RleHQ+CiaG
PHRleHQgeD0iNzM1IiB5PSIyMDAiIGZvbnQtZmFtaWx5PSJBcmllhbCwgc2Fucy1zZXJpZiIgZm9ud
C1zaXplPSIxMSIgZm9udC13ZWlnaHQ9ImJvbGQ9IiIGZpbGw9IndoaXRlIiB0ZXh0LWFuY2hvcj0ibW
lkZGxlIj5EYXRhPC90ZXh0PgoKICA8IS0tIExlZ2VuZCAAtLT4KICA8cmVjdCB4PSIzMCIgeT0iMjk
wIiB3aWR0aD0iNzQwIiBoZWlnaHQ9IjciIiByeD0iOICigZmlsbD0iI2ZmZiIgc3Ryb2t1PSIjZTJl
OGYwIiBzdHJva2Utd2lkdGg9IjEiLz4KICA8dGV4dCB4PSI0MDAiIHk9IjMxMiIgZm9udC1mYW1pb
Hk9IkFyaWFsLCBzYW5zLXNlcmlmIiBmb250LXNpemU9IjExIiBmb250LXdlaWdodD0iYm9sZCIgZm
lsbD0iIzMzMzMyIgdGV4dC1hbmNob3I9Im1pZGRsZSI+Q29tcG9uZW50IFJlc3BvbnNpYmlsaXRpZXM
8L3RleHQ+CgogIDxyZWNoIHg9IjUwIiB5PSIzMjUiIHdpZHRoPSIxMiIgaGVpZ2h0PSIxMiIgcng9
IjIiIGZpbGw9InVybCg9Z3JvdXBHcmFkKSIVPgogIDx0ZXh0IHg9IjcwIiB5PSIzMzUiIGZvbnQtZ
mFtaWx5PSJBcmllhbCwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMCIgZmlsbD0iIzMzMzMyI+R3JvdX
Bz0iBPcmdhbm16ZSB1c2VyczwvdGV4dD4KICAgPHJlY3QgeD0iMjAwIiB5PSIzMjUiIHdpZHRoPSI
xMiIgaGVpZ2h0PSIxMiIgcng9IjIiIGZpbGw9InVybCg9cG9saWN5R3JhZCkiLz4KICA8dGV4dCB4
PSIyMjAiIHk9IjMzNSIgdGV4dC1mYW1pbHk9IkFyaWFsLCBzYW5zLXNlcmlmIiBmb250LXNpemU9I
jEwIiBmaWxsPSIjMzMzIj5Qb2xpcyY2llczogRGVmaw5lIHBlcm1pc3Npb25zPC90ZXh0PgoKICA8cm
VjdCB4PSIzODAiIHk9IjMyNSIgd2lkdGg9IjEyIiBoZWlnaHQ9IjEyIiByeD0iMiIgZmlsbD0idXJ
sKCNib3VuZGFyeUdyYWQpIi8+CiaGPHRleHQgeD0iNDAwIiB5PSIzMzUiIGZvbnQtZmFtaWx5PSJB
cmllhbCwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMCIgZmlsbD0iIzMzMzMyI+Qm91bmRhcmllczogU
mVzdHJpY3Qgc2NvcGU8L3RleHQ+CgogIDxyZWNoIHg9IjU2MCIGeT0iMzI1IiB3aWR0aD0iMTIiIG
hlaWdodD0iMTIiIHJ4PSIyIiBmaWxsPSJ1cmw0I3NlZ21lbnRhcmFkKSIVPgogIDx0ZXh0IHg9IjU
4MCIGeT0iMzM1IiBmb250LWZhbwLseT0iQXJpYWwsIHhbnMtc2VyaWYiIGZvbnQtc2l6ZT0iMTAi
IGZpbGw9IiMzMzMzIiBmb250LWZhbwLseT0iQXJpYWwsIHhbnMtc2VyaWYiIGZvbnQtc2l6ZT0iMTAi
IGZpbGw9IiMzMzMzIiBmb250LWZhbwLseT0iQXJpYWwsIHhbnMtc2VyaWYiIGZvbnQtc2l6ZT0iMTAi

Key Components

Component	Purpose	Configured In
Users	Individual identities	Account Management
Groups	Collections of users	Identity & Access Management
Policies	Permission definitions	Policy Management
Boundaries	Scope restrictions	Policy Boundaries
Segments	Data filtering	Segments app

How It Works Together

1. **Users** are assigned to **Groups**
2. **Groups** are bound to **Policies**
3. **Boundaries** can optionally restrict the **Policy** scope
4. **Segments** filter what data users see (independent of permissions)

2. Policies Deep Dive

What Are Policies?

Policies are the core of ABAC – they define **WHAT** users can do.

Policy Types

Type	Description	Editable
----- ----- -----		
Default Policies	Pre-defined by Dynatrace	No (read-only)
Custom Policies	Created by administrators	Yes

Default Policies Categories

Dynatrace Access Policies (Platform features):

- `Dynatrace Viewer` – Read-only access
- `Dynatrace Standard User` – Standard operations
- `Dynatrace Professional User` – Advanced features
- `Dynatrace Admin User` – Full administration

Data Access Policies (Monitored data):

- `Data Viewer` – Read monitored data
- `Data Editor` – Modify data configurations

Policy Statement Structure

```

ALLOW :: [WHERE ]

```

Examples:

```

ALLOW storage:buckets:read

ALLOW settings:objects:read WHERE settings:schemaId =  
"builtin:alerting.profile"

ALLOW storage:logs:read WHERE storage:dt.security\_context = "team-a"

```

3. Boundaries Deep Dive

What Are Boundaries?

Boundaries restrict ****WHERE**** policies apply – they limit the scope of permissions.

Key Characteristics

- ****Optional**** but powerful for fine-grained access control
- Work ****together**** with policies (not standalone)
- ****Further restrict**** existing policy permissions
- Enable ****reusability**** across multiple policy assignments

Boundary Query Syntax

```
```  
 ""
```
```

****Supported Operators:****

- `=` – Equals
- `!=` – Not equals
- `startsWith` – Prefix match
- `in` – Value in list

****Common Fields:****

- `environment` – Environment restrictions
- `environment:management-zone` – MZ-based restrictions
- `storage:dt.security_context` – Security context filtering

Boundary Examples

****Restrict to specific Management Zone (transitional):****

```
```  
environment:management-zone = "Production-NA"
```
```

****Restrict by Management Zone prefix:****

```
```  
environment:management-zone startsWith "mgmt_na"
```
```

****Restrict by Security Context:****

```
```  
storage:dt.security_context = "team-frontend"
```
```

Boundary Limitations

Limitation Workaround
----- -----


```
| Max 10 restrictions per boundary | Create multiple boundaries |
| No AND operator (lines are OR) | Use multiple boundary assignments |
| Only works with security policies | Cannot use with role-based permissions
|
```

4. Segments Deep Dive

What Are Segments?

Segments are **DQL-based filter conditions** that control what data users see - they're the replacement for MZ data filtering.

Key Characteristics

- **Query-time evaluation** (not precalculated)
- **Multi-dimensional** - can layer multiple segments
- **DQL-powered** - full query language flexibility
- Support **variables** for dynamic filtering
- **Independent of permissions** - filtering only

How Segments Work in DQL

When a segment is applied, Grail:

1. Evaluates segment conditions relevant to the query
2. Applies filters based on the targeted data object
3. Multiple conditions for same data object = OR combined

Segment vs. Management Zone Filtering

Aspect	Management Zone	Segment
-----	-----	-----
Evaluation	Precalculated	Query-time
Performance	Bottleneck at scale	Highly scalable
Flexibility	Fixed rules	Dynamic DQL
Variables	No	Yes
Multi-dimensional	No	Yes

5. Querying Current Access Configuration

View Services with Security Context

Security Context is key for access control in the new model:

```
```dql
```

```
// List services and their security context
// Security context is used for fine-grained access control
fetch dt.entity.service
| fields entity.name,
 dt.security_context,
 managementZones
| filter isNotNull(dt.security_context)
| sort entity.name asc
| limit 50
```

```

Analyze Entity Types and Their Attributes

Understanding entity attributes helps design effective segments:

```
```dql
// Analyze host entity attributes for segment planning
// Tags and metadata are useful for segment conditions
fetch dt.entity.host
| fields entity.name,
 tags,
 managementZones
| limit 20
```
```

Check Kubernetes Cluster Distribution

K8s clusters often map to organizational boundaries:

```
```dql
// List Kubernetes clusters with their attributes
// Clusters often align with team or environment boundaries
fetch dt.entity.kubernetes_cluster
| fields entity.name,
 tags,
 managementZones
| sort entity.name asc
```
```

6. Mapping MZ Concepts to New Model

Common MZ Patterns and Their Replacements

| MZ Pattern | New Approach |
|--------------------|-----------------------------|
| ----- | ----- |
| **Team-based MZs** | Security Context + Policies |


```
**Environment MZs** (Dev/Prod)	Boundaries with environment filters
**Region MZs**	Segments with cloud region filters
**Application MZs**	Segments with service/app filters
**Multi-tenant MZs**	Boundaries + Security Context
```

Example: Team-Based Access Control

Old (Management Zone):

- MZ: "Team-Frontend" with rules for frontend services
- Users assigned to MZ get filtered view

New (Policies + Boundaries + Segments):

1. **Policy**: `Dynatrace Standard User` or custom policy
2. **Boundary**: `storage:dt.security_context = "team-frontend"`
3. **Segment**: DQL filter for frontend services

Example: Environment Separation

Old (Management Zone):

- MZ: "Production" with host/service rules
- MZ: "Development" with different rules

New (Policies + Boundaries + Segments):

1. **Policy**: Same policy for both groups
2. **Boundary (Prod)**: Environment-specific restrictions
3. **Boundary (Dev)**: Environment-specific restrictions
4. **Segments**: Environment-based data filters

7. Access Control Decision Flow

Permission Evaluation Order

...

1. User attempts action
2. System checks user's group memberships
3. For each group, evaluate bound policies
4. Apply boundary restrictions (if any)
5. If ALLOW found with matching conditions → Permit
6. If no ALLOW found → Deny (implicit)

...

Segment Application

...

1. User queries data (DQL, dashboard, app)
2. Active segment(s) identified

3. Segment conditions injected into query
4. Grail evaluates with segment filters
5. Filtered results returned
- ...

Key Differences from MZ

| MZ Behavior | New Behavior |
|---|---|
| ----- | ----- |
| Single construct for access + filtering | Separate concerns (Policies vs Segments) |
| Precalculated membership | Runtime evaluation |
| Limited to entity types | Any DQL-queryable attribute |
| Flat structure | Hierarchical (groups → policies → boundaries) |

8. Best Practices for the New Model

Policy Design

1. ****Start with default policies**** – customize only when needed
2. ****Use least privilege**** – grant minimum required permissions
3. ****Group similar permissions**** – avoid policy sprawl
4. ****Document policy purpose**** – maintain clarity

Boundary Design

1. ****Create reusable boundaries**** – one boundary, many uses
2. ****Use meaningful names**** – indicate scope clearly
3. ****Keep conditions simple**** – easier to audit
4. ****Leverage security context**** – for entity-level control

Segment Design

1. ****Align with business structure**** – teams, regions, products
2. ****Use variables**** – for dynamic, flexible filters
3. ****Test thoroughly**** – verify filtering works as expected
4. ****Layer segments**** – combine for precise filtering

Summary

In this notebook, you learned:

1. ****ABAC Framework****: How Users → Groups → Policies → Permissions flow
2. ****Policies****: Define WHAT users can do (permissions)

3. **Boundaries**: Restrict WHERE policies apply (scope)
4. **Segments**: Filter WHAT data users see (DQL-based)
5. **Mapping**: How MZ patterns translate to the new model

Next Steps

Continue to **MZ2P0L-03: Assessment and Migration Planning** to:

- Audit your current MZ configuration in detail
- Create a migration mapping document
- Plan the phased migration approach

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/permission-management/manage-user-permissions-policies/advanced/iam-policystatements>)
- [Default Policies Reference](<https://docs.dynatrace.com/docs/manage/identity-access-management/use-cases/default-groups-permissions>)
- [Grant Access to Entities with Security Context](<https://docs.dynatrace.com/docs/manage/identity-access-management/use-cases/access-security-context>)