

# DeployIfNotExists

Last updated by | Hamza Aqel | Aug 17, 2022 at 3:09 AM PDT

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## Contents

- [DeployIfNotExists](#)

## DeployIfNotExists

Azure Policy:

Azure Policy helps to enforce organizational standards and to assess compliance at-scale. Through its compliance dashboard, it provides an aggregated view to evaluate the overall state of the environment, with the ability to drill down to the per-resource, per-policy granularity.

Common use cases for Azure Policy include implementing governance for resource consistency, regulatory compliance, security, cost, and management. Policy definitions for these common use cases are already available in your Azure environment as built-ins to help you get started.

One common question is how to make sure that Azure Database for PostgreSQL Flexible Server is compliance through bulk remediation for existing resources and automatic remediation for new resources, use the below Policy sample where it can check a certain server parameter (e.g. log\_duration on this case) as DeployIfNotExists:

```
{
  "mode": "All",
  "policyRule": {
    "if": {
      "allOf": [
        {
          "field": "type",
          "equals": "Microsoft.DBforPostgreSQL/flexibleServers"
        }
      ]
    },
    "then": {
      "effect": "[parameters('effect')]",
      "details": {
```

```
"type": "Microsoft.DBforPostgreSQL/flexibleServers/configurations",

"name": "log_duration",

"existenceCondition": {

  "field": "Microsoft.DBforPostgreSQL/flexibleServers/configurations/value",

  "equals": "ON"

},

"roleDefinitionIds": [

  "/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"

],

"deployment": {

  "properties": {

    "mode": "incremental",

    "template": {

      "$schema": "https://schema.management.azure.com/schemas/2019-04-01/deploymentTemplate.json#",

      "contentVersion": "1.0.0.0",

      "parameters": {

        "serverName": {

          "type": "string"

        }

      },

      "variables": {},

      "resources": [

        {

          "name": "[concat(parameters('serverName'), '/log_duration')]",

          "type": "Microsoft.DBforPostgreSQL/flexibleServers/configurations",

          "apiVersion": "2022-01-20-preview",

          "properties": {

            "value": "ON",

            "source": "user-override"

          }

        }

      ]

    }

  }

}
```

```

    }

  ]

},

"parameters": {

  "serverName": {

    "value": "[field('name')]"

  }

}

}

}

}

}

}

},

"parameters": {

  "effect": {

    "type": "String",

    "metadata": {

      "displayName": "Effect",

      "description": "Enable or disable the execution of the policy"

    },

    "allowedValues": [

      "DeployIfNotExists",

      "Disabled"

    ],

    "defaultValue": "DeployIfNotExists"

  }

}

}

}

```

**Notes:**

- Based on the above policy all the new resources will have this parameter set to ON by default.

- For existing resources, you need to check and run the Remediation in Azure Policy as below:

Home > Policy

Policy | Remediation

Search (Ctrl+/)

Refresh

Overview

Getting started

Compliance

Remediation

Events

Authoring

Definitions

Assignments

Exemptions

Scope

10 selected

...

Policies to remediate

Remediation tasks

This is a list of assigned policies with deployIfNotExists or modify effect.

Filter by name or ID...

Policy Definition	Assignment	Resources to Remediate	Scope
Enable log_duration	Enable log_duration	14	Hamza

Home > Policy

Policy | Remediation

Search (Ctrl+/)

Refresh

Overview

Getting started

Compliance

Remediation

Events

Authoring

Definitions

Assignments

Exemptions

Scope

10 selected

...

Policies to remediate

Remediation tasks

Search

Filter by name or ID...

Remediation State

All

Start Time	Remediation State	Policy Definition	Scope	Locations	Remediated Resources	Last Updated
8/16/2022, 7:22 PM	Complete	Enable log_duration	Hamza/haqelresgrp	All	1 out of 1	8/16/2022, 7:24 PM

For Further use cases for Azure policy, you can share your ideas with

the EEE team / [haaqel@microsoft.com](mailto:haaqel@microsoft.com)