Resource Consistency tools in Azure

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In this article

Resource Consistency is one of the Five Disciplines of Cloud Governance. This discipline focuses on ways of establishing policies related to the operational management of an environment, application, or workload. Within the Five Disciplines of Cloud Governance, the Resource Consistency discipline involves monitoring of application, workload, and asset performance. It also involves the tasks required to meet scale demands, remediate performance SLA violations, and proactively avoid performance SLA violations through automated remediation.

The following is a list of Azure tools that can help mature the policies and processes that support this governance discipline.

Tool	Azure portal	Azure Resource Manager	Azure Blueprints	Azure Automation	Azure AD	Azure Backup	Azure Site Recovery
Deploy resources	Yes	Yes	Yes	Yes	No	No	No
Manage resources	Yes	Yes	Yes	Yes	No	No	No
Deploy resources using templates	No	Yes	No	Yes	No	No	No
Orchestrated environment deployment	No	No	Yes	No	No	No	No
Define resource groups	Yes	Yes	Yes	No	No	No	No
Manage workload and account owners	Yes	Yes	Yes	No	No	No	No
Manage conditional access to resources	Yes	Yes	Yes	No	No	No	No
Configure RBAC users	Yes	No	No	No	Yes	No	No
Assign roles and permissions to resources	Yes	Yes	Yes	No	Yes	No	No
Define dependencies between resources	No	Yes	Yes	No	No	No	No
Apply access control	Yes	Yes	Yes	No	Yes	No	No
Assess availability and scalability	No	No	No	Yes	No	No	No
Apply tags to resources	Yes	Yes	Yes	No	No	No	No
Assign Azure Policy rules	Yes	Yes	Yes	No	No	No	No

Tool	Azure portal	Azure Resource Manager	Azure Blueprints	Azure Automation	Azure AD	Azure Backup	Azure Site Recovery
Apply automated remediation	No	No	No	Yes	No	No	No
Manage billing	Yes	No	No	No	No	No	No
Plan resources for disaster recovery	Yes	Yes	Yes	No	No	Yes	Yes
Recover data during an outage or SLA violation	No	No	No	No	No	Yes	Yes
Recover applications and data during an outage or SLA violation	No	No	No	No	No	Yes	Yes

Along with these Resource Consistency tools and features, you will need to monitor your deployed resources for performance and health issues. Azure Monitor is the default monitoring and reporting solution in Azure. Azure Monitor provides features for monitoring your cloud resources. This list shows which feature addresses common monitoring requirements.

Tool	Azure portal	Application Insights	Log Analytics	Azure Monitor Rest API
Log virtual machine telemetry data	No	No	Yes	No
Log virtual networking telemetry data	No	No	Yes	No
Log PaaS services telemetry data	No	No	Yes	No
Log application telemetry data	No	Yes	No	No
Configure reports and alerts	Yes	No	No	Yes
Schedule regular reports or custom analysis	No	No	No	No
Visualize and analyze log and performance data	Yes	No	No	No
Integrate with on-premises or third-party monitoring solution	No	No	No	Yes

When planning your deployment, you will need to consider where logging data is stored and how you integrate cloud-based reporting and monitoring services with your existing processes and tools.

> **Note**
>
> Organizations also use third-party DevOps tools to monitor workloads and resources. For more information, see DevOps tool integrations.

Next steps

Learn how to create, assign, and manage policy definitions in Azure.