

Configure Resource Tagging and Cost Center Spending Limits



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Introduction



Microsoft Azure Spending Limits

Microsoft Azure ARM Consumption API

Billing Alerts

Tagging and Billing Management

Microsoft Azure Pricing Calculator

Microsoft Azure Advisor Cost
Recommendations

Enabling Cost Saving



Microsoft Azure Spending Limits



Spending Limits Applicability

Yes



Free trial



MSDN



Visual Studio

No



Support
Plans



Enterprise
Dev/Test



Pay-as-you-go



Spending Limit Exceeded

An email message is sent

Deployed resources are disabled until the next billing cycle

Databases and storage accounts become read-only

Exceeded free trials (\$200 credit) can be upgraded to Pay-as-you-go

Remove spending limits by creating a subscription payment method



Microsoft Azure ARM Consumption APIs



Azure Consumption APIs

Returns resource usage details and cost through REST API calls

Supported subscription types

- Enterprise enrollments
- Web Direct subscriptions

Programmatic access

- Microsoft Azure CLI
- Python, .NET, Node.js, Ruby SDK



Azure Consumption APIs

API Name	Description
Price Sheet <i>(Enterprise customers only)</i>	Resource usage and pricing expressed using various units of measurement such as hours, GB
Reservation Summaries	Summary of reserved virtual machine instance reserved consumption vs. actual usage
Reservation Details	Reserved virtual machine usage
Reservation Recommendations	Suggested reserved virtual machine instance usage and savings



Azure Consumption APIs

API Name	Description
Budgets <i>(Enterprise customers only)</i>	Manage cost and usage budgets and alerts
Balance <i>(Enterprise customers only)</i>	Current or previous billing summary
Marketplace Charges	Marketplace resource usage and fee details
Usage Details	Resource usage and fee details



Other Cost and Billing Management Tools



**Microsoft Azure Pricing
Calculator**



**Microsoft Azure Advisor cost
recommendations**

Demo



Tag resources to facilitate billing management



Demo



**Estimate monthly costs using the
Microsoft Azure Pricing Calculator**



Demo



View Microsoft Azure Advisor cost recommendations



Azure Advisor Cost Recommendations

Virtual machine shutdown

- Manual
- Automatic

Virtual machine resizing

- Vertical scaling (down)

Use virtual machine reserved instances

Remove unprovisioned ExpressRoute circuits



Demo



View resource consumption and billing using PowerShell and the CLI



Demo



Enable Microsoft Azure cost saving measures



Summary



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