

Configure Resource Tagging and Cost Center Spending Limits



Dan Lachance

[linkedin.com/in/danlachance](https://www.linkedin.com/in/danlachance)



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
- Azure PowerShell Az.Billing module
- 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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