# 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

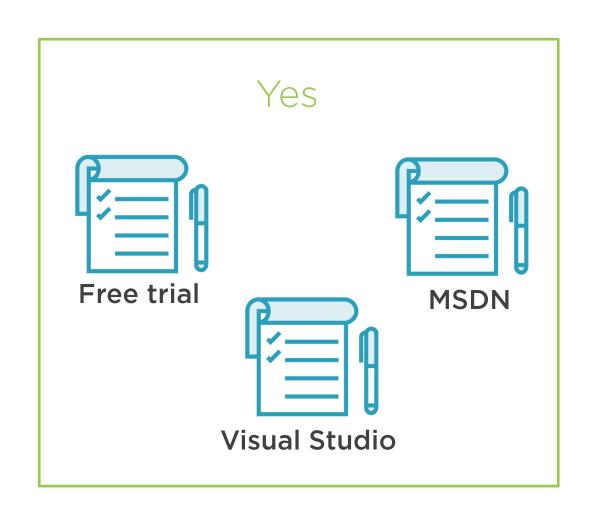
**Enabling Cost Saving** 

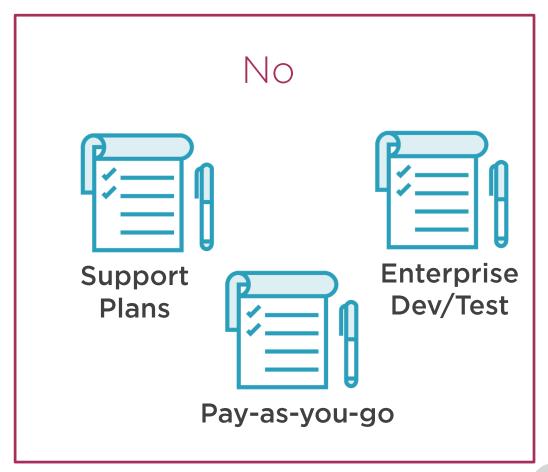


#### Microsoft Azure Spending Limits



#### Spending Limits Applicability







## 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 (Enterprise customers only)	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 (Enterprise customers only)	Manage cost and usage budgets and alerts
Balance (Enterprise customers only)	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

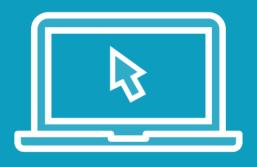


Microsoft Azure Pricing Calculator



Microsoft Azure Advisor cost recommendations





Tag resources to facilitate billing management





Estimate monthly costs using the Microsoft Azure Pricing Calculator





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

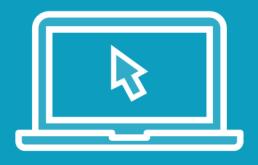
Remove unprovisioned ExpressRoute circuits





View resource consumption and billing using PowerShell and the CLI





Enable Microsoft Azure cost saving measures



#### Summary



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