

# Tutorial S1: Getting set up

Log-in at [portal.azure.com](https://portal.azure.com) with your subscription.

This tutorial covers how to do the following steps through the Azure desktop portal:

1. Create a budget to track spending
2. Create a **resource group**
3. Create a **virtual network**

These are mainly the framework resources that actual, physical computing and storage resources will be built within.

1. Creating a budget to track spending

# Making a budget to keep on top of your subscription

Microsoft Azure Search resources, services, and docs (G+)

Home > Cost Management: Zoe\_Krauss

Cost Management: Zoe\_Krauss | Budgets

Subscription

Search

+ Add Refresh Help

Scope : Zoe\_Krauss Search by name All periods

Budget evaluations now include reserved instance and purchase charges. To learn more, visit the budgets documentation.

Name	Scope	Reset period	Creation date	Expiration date	Budget	Forecasted
SafetyNet	f387c92a-68b5-4d09...	Monthly	1/1/2023	12/31/2024	\$5,000.00	\$141.51

Overview

Access control

Diagnose and solve problems

Cost Management

Cost analysis (preview)

Cost analysis

Cost alerts

Budgets

Advisor recommendations

Billing

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Payment methods

Products + services

Azure subscriptions

Navigate to the “Cost Management” page of your subscription.

Go to “Budgets” on the sidebar.

Add a new budget.

# Create budget

Budget  
The budget you create will be assigned to the selected scope. Use additional filters like resource groups to have your budget monitor with more granularity as needed.

Scope Zoe\_Krauss

Filters [Add filter](#)

## Budget Details

Give your budget a unique name. Select the time window it analyzes during each evaluation period, its expiration date and the amount.

\* Name

\* Reset period

\* Creation date

\* Expiration date

If you want the budget to pertain to your subscription only, you don't need any filters.

If multiple users are on the subscription, however, and you want to create separate budgets for each of them, create a resource group for them first and then set it as a filter.

Name your budget and set its time limits.



Home > Cost Management: Zoe\_Krauss | Budgets >

## Create budget

Budget



### Budget Details

Give your budget a unique name. Select the time window it analyzes during each evaluation period, its expiration date and the amount.

* Name	<input type="text" value="SafetyNet1"/>
* Reset period ⓘ	<input type="text" value="Annually"/>
* Creation date ⓘ	<input type="text" value="2023"/> <input type="text" value="April"/> <input type="text" value="1"/>
* Expiration date ⓘ	<input type="text" value="2025"/> <input type="text" value="March"/> <input type="text" value="31"/>

### Budget Amount

Give your budget amount threshold

Amount (\$) *	<input type="text" value="1000"/>
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Enter the total, maximum number of \$ you want spent on this subscription.

Previous

Next >

Then hit next!

# Create budget

Budget

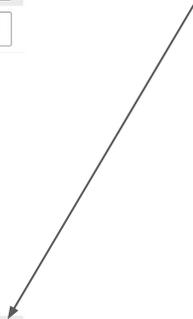
## \* Alert conditions

Type	% of budget	Amount	Action group
Actual	25	250.00	None
Actual	50	500.00	None
Actual	75	750.00	None
Actual	90	900.00	None
Forecasted	90	900.00	None
Select type	Enter %	-	None

Specify at what point you want alerts sent, for how much % of the budget is used.



Enter an email address that the alerts will be sent to.



[Manage action group](#)

## \* Alert recipients (email)

Alert recipients (email)

testrecipient@university.edu

example@email.com

Create the budget! Now you have alerts in place for your spending.



Previous Create

To check how much money is spent/what it was spent on:

Microsoft Azure Search resources, services, and docs (G+)

Home > Subscriptions > Subscriptions UW (cloud.washington.edu)

Go to your subscription page

Navigate to “Cost Analysis” on the sidebar

**Zoe\_Krauss** Subscription

Cancel subscription Rename Change directory Feedback

Search

Essentials

Subscription ID: f387c92a-68b5-4d09-8497-e3a4a7199af0  
Subscription name: [Zoe\\_Krauss](#)  
Directory: UW (cloud.washington.edu)  
My role: Owner  
Status: Active  
Plan: Azure Plan  
Parent management group: f6b6dd5b-f02f-441a-99a0-162ac5060bd2  
Secure Score: [14%](#)

Cost Management

Cost analysis Cost alerts Budgets Advisor recommendations

Billing

Billing profile invoices

Settings

Programmatic deployment

Spending rate and forecast

Current cost: \$88.29 Forecast: \$142.63

Costs by reso

View detail

## Zoe\_Krauss | Cost analysis

Subscription

Search

Save Save as Delete view Share Subscribe Refresh Download Cost by resource Configure subscription Try preview Help

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Security
- Events

## Cost Management

## Cost analysis

- Cost alerts
- Budgets
- Advisor recommendations

## Billing

- Billing profile invoices

## Settings

- Programmatic deployment
- Billing properties
- Resource groups
- Resources
- Preview features
- Usage + quotas

Scope : Zoe\_Krauss

VIEW AccumulatedCosts

2023

Add filter

ACTUAL COST (USD)

\$1,593.70

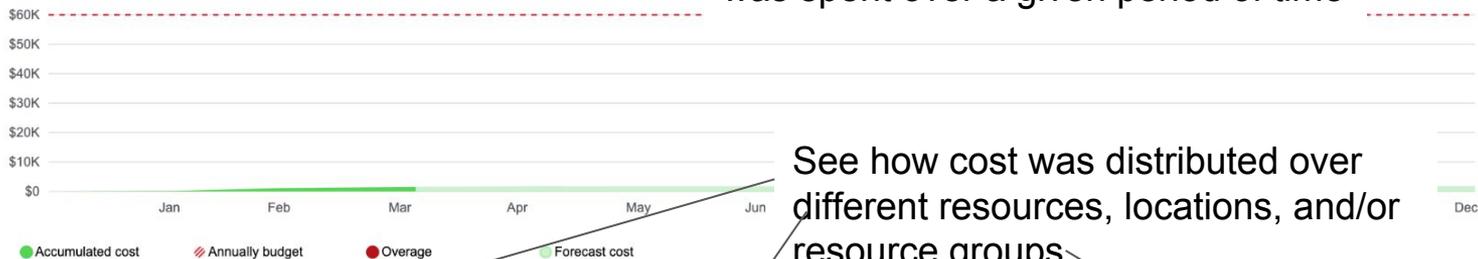
FORECAST: CHART VIEW ON

\$1,719.04

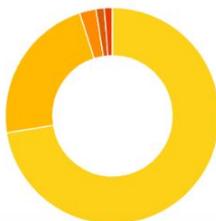
BUDGET: SAFETYNET

\$5,000/mo

Edit the time limits to see how much was spent over a given period of time

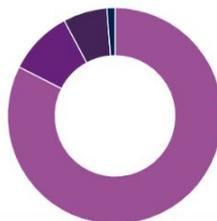


Service name



- Virtual Machines \$1,155.57
- Storage \$359.29
- Container Registry \$39.82
- Virtual Network \$19.73
- Load Balancer \$19.21
- Power BI \$0.00

Location



- us west 2 \$1,314.30
- us west 3 \$154.65
- us west 5 \$105.54
- global \$19.21
- intercontinental \$0.00

Resource group name



- krausszoe \$1,345.64
- nlylyyu \$248.06
- networkwatchcherrq \$0.00

2. Create a  
resource group

# Create Resource Group

This will help you tie resources you create (virtual networks, virtual machines, storage accounts, etc.) to your “subscription”, which is how you pay for all this!



Home > Resource groups >

## Create a resource group ... ×

Basics Tags Review + create

**Resource group** - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)

### Project details

Subscription \* ⓘ

Resource group \* ⓘ

### Resource details

Region \* ⓘ

The “subscription” you want to use to pay for resources in the resource group

Whichever name you like!

The region you’ll do the most work in, so that you will be physically close to the servers you will use. Speeds up I/O. For Seattle, this is West US 2.

3. Create a virtual network

## Create virtual network

Basics IP Addresses Security Tags Review + create

Azure Virtual Network (VNet) is the fundamental building block for your private network in Azure. VNet enables many types of Azure resources, such as Azure Virtual Machines (VM), to securely communicate with each other, the internet, and on-premises networks. VNet is similar to a traditional network that you'd operate in your own data center, but brings with it additional benefits of Azure's infrastructure such as scale, availability, and isolation. [Learn more about virtual network](#)

### Project details

Subscription \*

Resource group \*  [Create new](#)

### Instance details

Name \*

Region \*

[Review + create](#)

[< Previous](#)

[Next : IP Addresses >](#)

[Download a template for automation](#)

## 0. Search “Virtual Networks”

<= 1. Your resource group here

<= 2. Give it a name

<= 3. Put it in the region you would mostly work in

4. Review and create

The default IP addresses and security options are fine for most purposes.