

Tutorial S1: Getting set up

Log-in at 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

Invoices

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.

Home > Cost Management: Zoe_Krauss | Budgets >

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	<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"/>

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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

* Reset period ⓘ

* Creation date ⓘ

* Expiration date ⓘ

Budget Amount

Give your budget amount threshold

Amount (\$) *

Enter the total, maximum number of \$ you want spent on this subscription.

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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

[Manage action group](#) ⓘ

* Alert recipients (email)

Alert recipients (email)

testrecipient@university.edu

example@email.com

Previous

Create

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.

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

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)

+ Add Manage Policies ...

Search...

Subscriptions == global filter

My role == all

Status == all

+ Add filter

Subscription name ↑↓

Zoe_Krauss ...

Zoe_Krauss

Subscription

Search

Cancel subscription Rename Change directory Feedback

Essentials

Subscription ID: f387c92a-68b5-4d09-8497-e3a4a7199af0

Directory: UW (cloud.washington.edu)

Status: Active

Parent management group: f6b6dd5b-f02f-441a-99a0-162ac5060bd2

Subscription name: [Zoe_Krauss](#)

My role: Owner

Plan: Azure Plan

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

View details

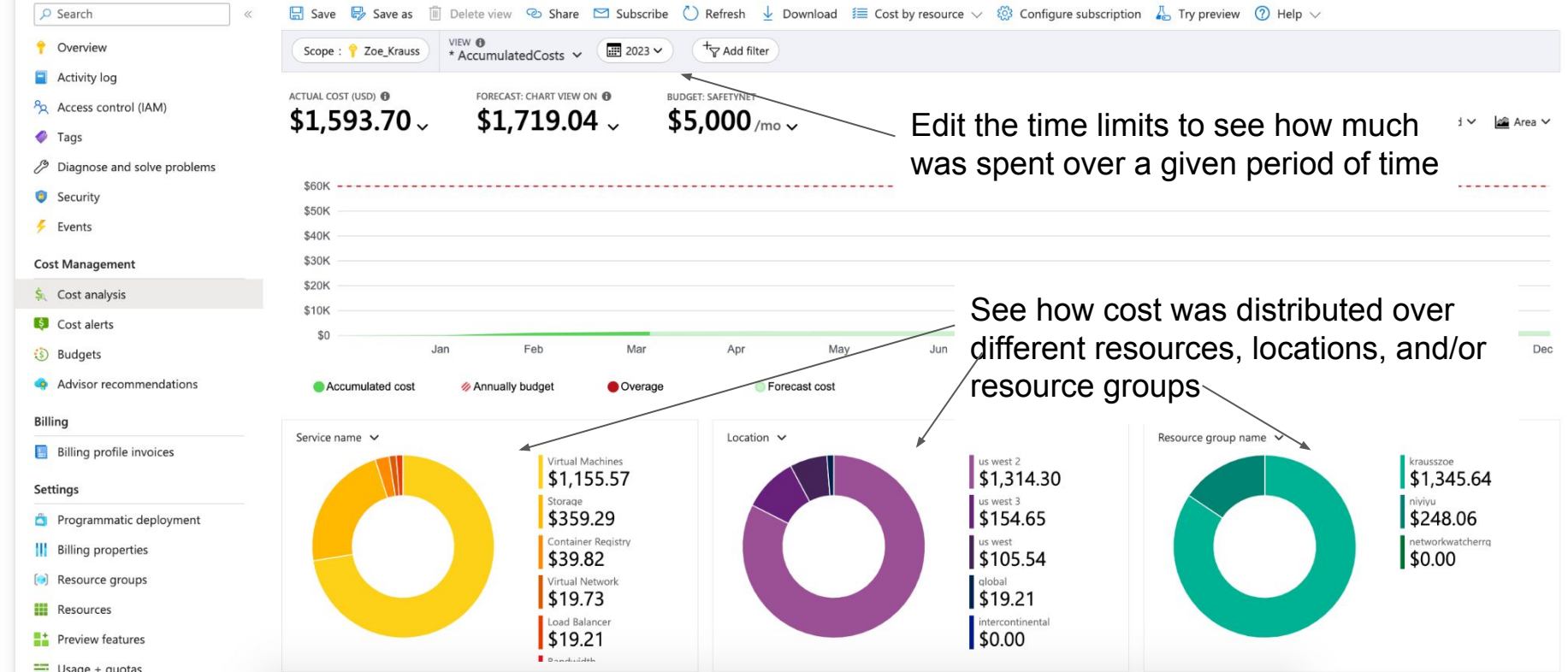
Costs by resource

View detail

Go to your subscription page

Navigate to “Cost Analysis” on the sidebar

Zoe_Krauss | Cost analysis



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!

Microsoft Azure

Search resources, services, and docs (G+ /)

zkrauss@uw.edu

UW (CLOUD.WASHINGTON.EDU)

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 * ⓘ

Zoe_Krauss

group_name

(US) West US 2

Review + create

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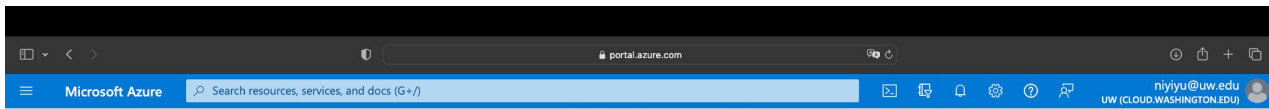
Next : Tags >

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



Home > Virtual networks >

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 *

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.

Review + create

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Next : IP Addresses >

[Download a template for automation](#)