

The background features a vibrant, multi-colored abstract design. On the left, there are overlapping, wavy, organic shapes in shades of red, orange, and yellow. On the right, a bright white light source emits a series of sharp, radiating lines in various colors, including blue, green, and yellow, creating a sunburst or starburst effect. The overall composition is dynamic and energetic.

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The bridge to possible

Containers & You:

The Azure Edition

 @adriennetacke
Senior Developer Advocate
DEVNET-2302

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Cisco Webex App

Questions?

Use Cisco Webex App to chat with the speaker after the session

How

- 1 Find this session in the Cisco Live Mobile App
- 2 Click “Join the Discussion”
- 3 Install the Webex App or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

Webex spaces will be moderated by the speaker until June 9, 2023.



<https://ciscolive.ciscoevents.com/ciscolivebot/#DEVNET-2302>

Before Containers



Before Containers

Tricky Issue

#1

Multiple Target
Environments

Tricky Issue

#2

Configuration

Tricky Issue

#3

Version
Control for
Scripts?

So, what are
containers?

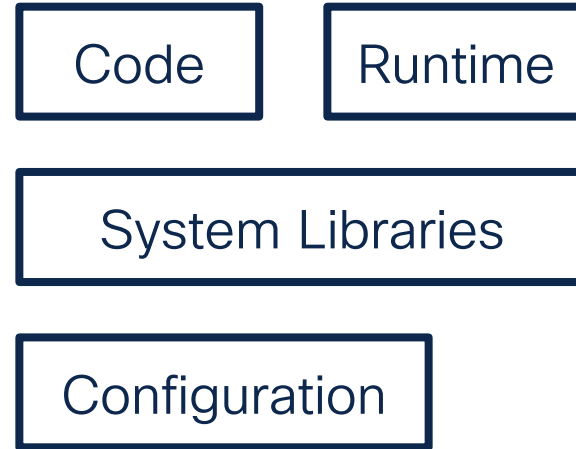


So, what are containers?

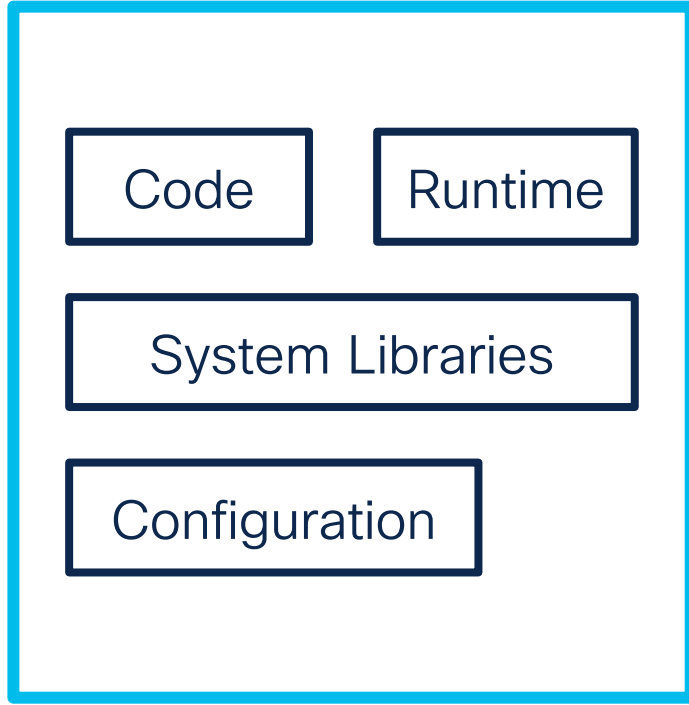
An independent package of
software and its dependencies.

So, what are containers?

dependencies



So, what are containers?



package

Container Services in Azure

Container Services in Azure



Azure Container Registry



Azure Container Instance



Azure Kubernetes Service



Azure Web App for Containers

Stores &
distributes images

Private, managed
registry service

Based on open-
source Docker
Registry 2.0



Azure Container Registry

Basic, Standard, &
Premium tiers

Automate with ACR
Tasks

Integrate into container
development workflow

Manage with Azure
CLI, Portal, or API

Demos

Azure Container Registry

Create an Azure Container Registry via Azure CLI

then

Push an image to that brand new registry!

Fully managed hosting
environment for
container workloads

No need to provision
or manage VMs

Billed only for time
you use them



Azure Container Instance

Fastest & simplest way
to run containers in
Azure

Can specify exact CPU
cores and memory

Can mount to Azure
Files shares to retrieve
& persist state

Supports both Windows
& Linux containers (with
same API!)

Demo

Azure Container Instance

Deploy an image from our registry to an
Azure Container Instance

Longer running
applications

Take advantage of
Azure App Service
features

Typical App Service
plans you are used to



Azure Web App for
Containers

Have always-on,
dev/test environments

Monitoring and
diagnostic tools
available

Deploy containerized
app with your
preferred
dependencies

Managed Kubernetes
hosting environment

Multiple containers or
services

Greatest control over
how you scale



Azure Kubernetes
Service (AKS)

Flexible & future-proof
managed container
environment

Pay for VM instances,
storage & networking
resources consumed
by your cluster(s)

Azure VMs utilized
under the hood

Container
Orchestration

Which one
do I use?



Azure Container Instances

Ready-to-use

Smaller applications

Short-lived, on-demand,
“burst” scenarios

Only need high-level
operation management of
your container deployment

Only have one or a few
containers/services to
deploy

Live!



Azure Kubernetes Service

Team already has working
knowledge of Kubernetes

Fully invested in container-
based approach

Have many
containers/services to
manage

Need complex
orchestration of workloads

Want to keep
infrastructure portable
with other cloud providers



Azure Web App for Containers

Already familiar with
Azure Web Apps

Long-running, always on
web apps

Need monitoring and
diagnostic tools

Only have one or a few
containers/services to
deploy

Have low-cost
environments that can take
advantage of free tiers

Azure Container Services and You

(are now better acquainted!)

Fill out your session surveys!



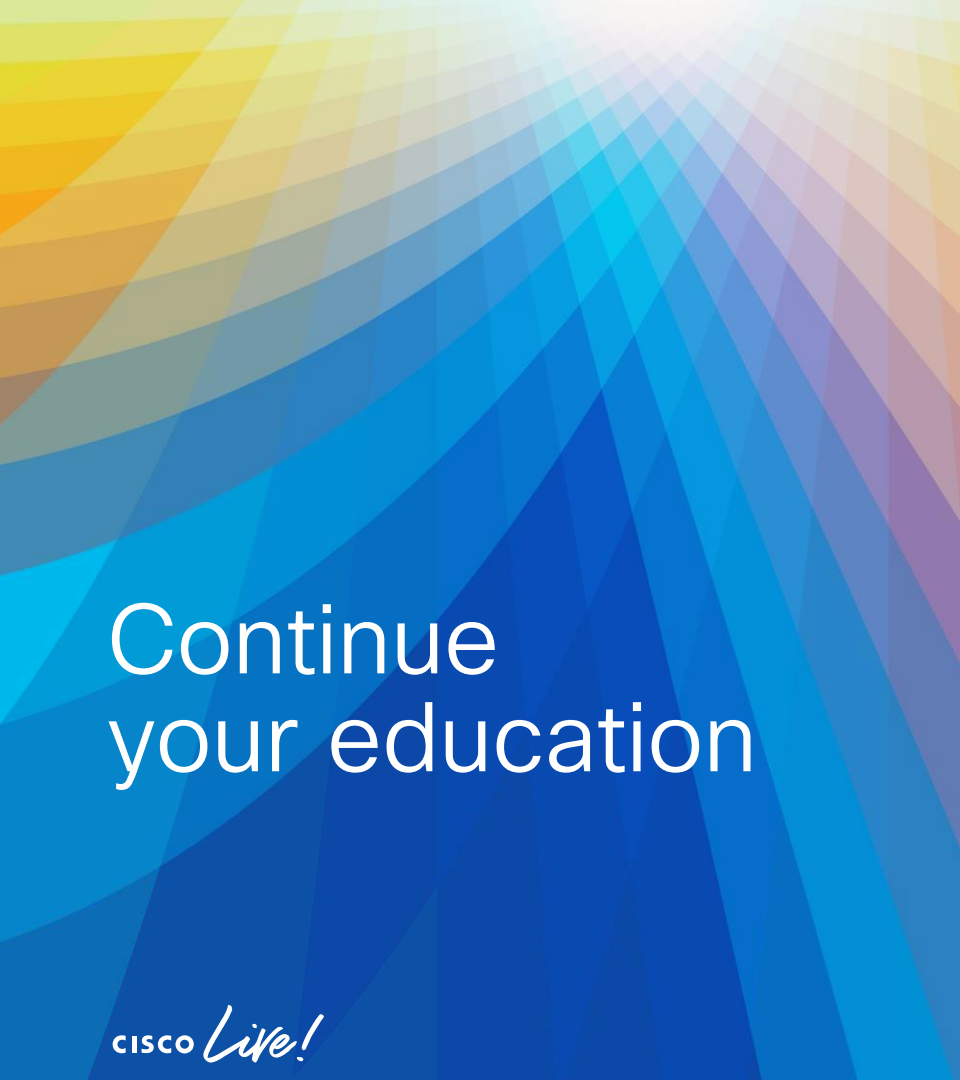
Attendees who fill out a minimum of four session surveys and the overall event survey will get **Cisco Live-branded socks** (while supplies last)!



Attendees will also earn 100 points in the **Cisco Live Challenge** for every survey completed.



These points help you get on the leaderboard and increase your chances of winning daily and grand prizes



Continue your education



- Visit the Cisco Showcase for related demos
- Book your one-on-one Meet the Engineer meeting
- Attend the interactive education with DevNet, Capture the Flag, and Walk-in Labs
- Visit the On-Demand Library for more sessions at www.CiscoLive.com/on-demand



The bridge to possible



Many thanks!
Maraming Salamat!

 @adriennetacke

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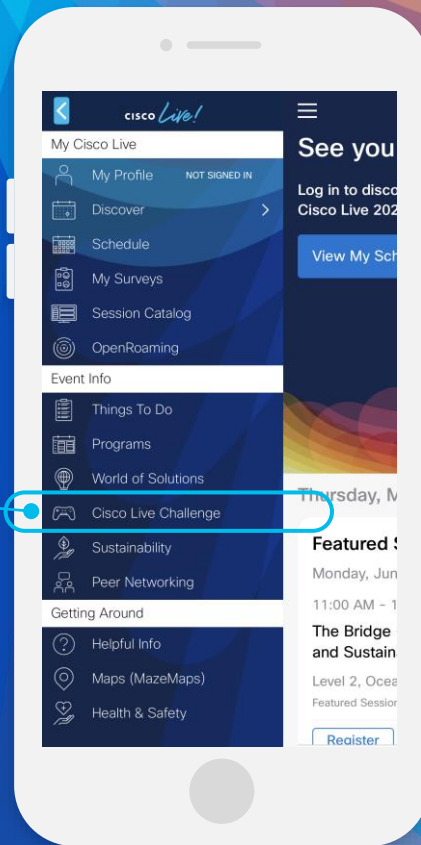
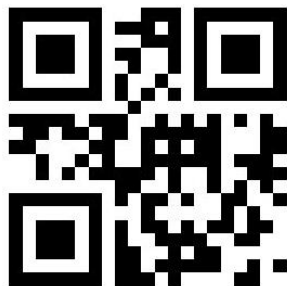
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Cisco Live Challenge

Gamify your Cisco Live experience!
Get points for attending this session!

How:

- 1 Open the Cisco Events App.
- 2 Click on 'Cisco Live Challenge' in the side menu.
- 3 Click on View Your Badges at the top.
- 4 Click the + at the bottom of the screen and scan the QR code:



The background is a vibrant, abstract graphic. It features a central bright white light source from which numerous colorful rays emanate, creating a sunburst or starburst effect. The rays transition through a spectrum of colors including yellow, orange, red, and various shades of blue and green. Overlaid on this are several large, semi-transparent, wavy shapes in similar color tones, giving the overall image a sense of motion and energy.

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Let's go

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