

Security



Tim Warner

AUTHOR/TECH EVANGELIST, PLURALSIGHT

@TechTrainerTim

azuredepot.com



Overview

What you need to think about to be successful

RBAC

- Contributor and Reader roles

Activity logs

- Who is doing what in Azure, and when

Azure Security Center



Exercise Files

What do you want to learn?

Timothy

Getting Started with Azure Machine Learning

by Jerry Kurata

Machine learning helps predict the weather, route you around traffic jams, and display personalized ads on your web pages. In this course, you will learn how to use Azure machine learning in order to create, deploy, and maintain predictive solutions.

[Resume Course](#) [Bookmark](#) [Add to Channel](#)

Table of contents Description **Exercise files** Discussion Recommended

These exercise files are intended to provide you with the assets you need to create a video-based hands-on experience. With the exercise files, you can follow along with the author and re-create the same solution on your computer. We find this to be even more effective than written lab exercises.

[Download exercise files](#)

Course author

Jerry Kurata

Jerry Kurata is a Solutions Architect at InStep Technologies.

Course info

Level	Beginner
Rating	★★★★★
My rating	★★★★★
Duration	2h 14m
Released	2 Nov 2016

Share course

[f](#) [t](#) [g+](#) [in](#)



What You Need to Think About to Be Successful



Things to Keep in Mind Regarding Azure Security

Azure conforms
with many
compliance certs

You can get
Microsoft's
permission to run
pen tests

Control routing
behavior

Leverage defense
in depth

Consider virtual
network security
appliances

Enable Azure
Security Center



Role-Based Access Control (RBAC)



Access Concepts



Least Privilege

Limiting resource access to what is necessary and no more

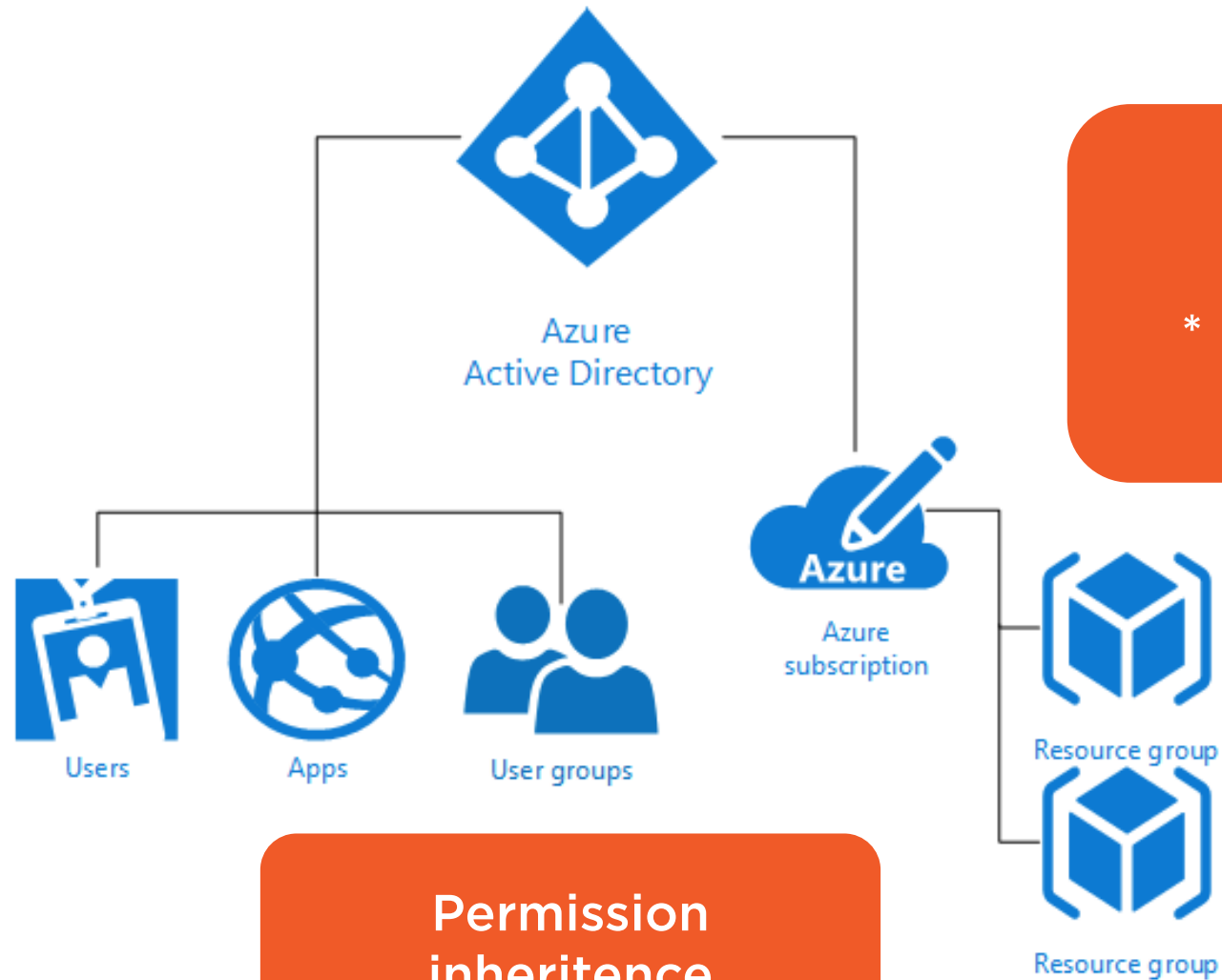


Role-Based Access Control (RBAC)

Regulating resource access based on job role



Azure RBAC



Scoping:

- * Subscription
- * Resource Group
- * Resource



Roles

Owner

- Full access

Contributor

- Full resource access but no grant/revoke privileges

Reader

- Read-only resource access

Custom

- Defined programmatically with PowerShell, CLI, or REST API



Demo



1

Show Azure compliance page

Make an Azure AD Reader at the resource group level

Show RBAC

- Azure CLI
- PowerShell



Activity Logs



Azure Activity Logs

Formerly known as "audit logs" or "operational logs"

Report control-plane events in your subscriptions

Separate and distinct from diagnostic logs

Great flexibility in query, report, and export



Demo



2

Portal experience

mention Log Analytics

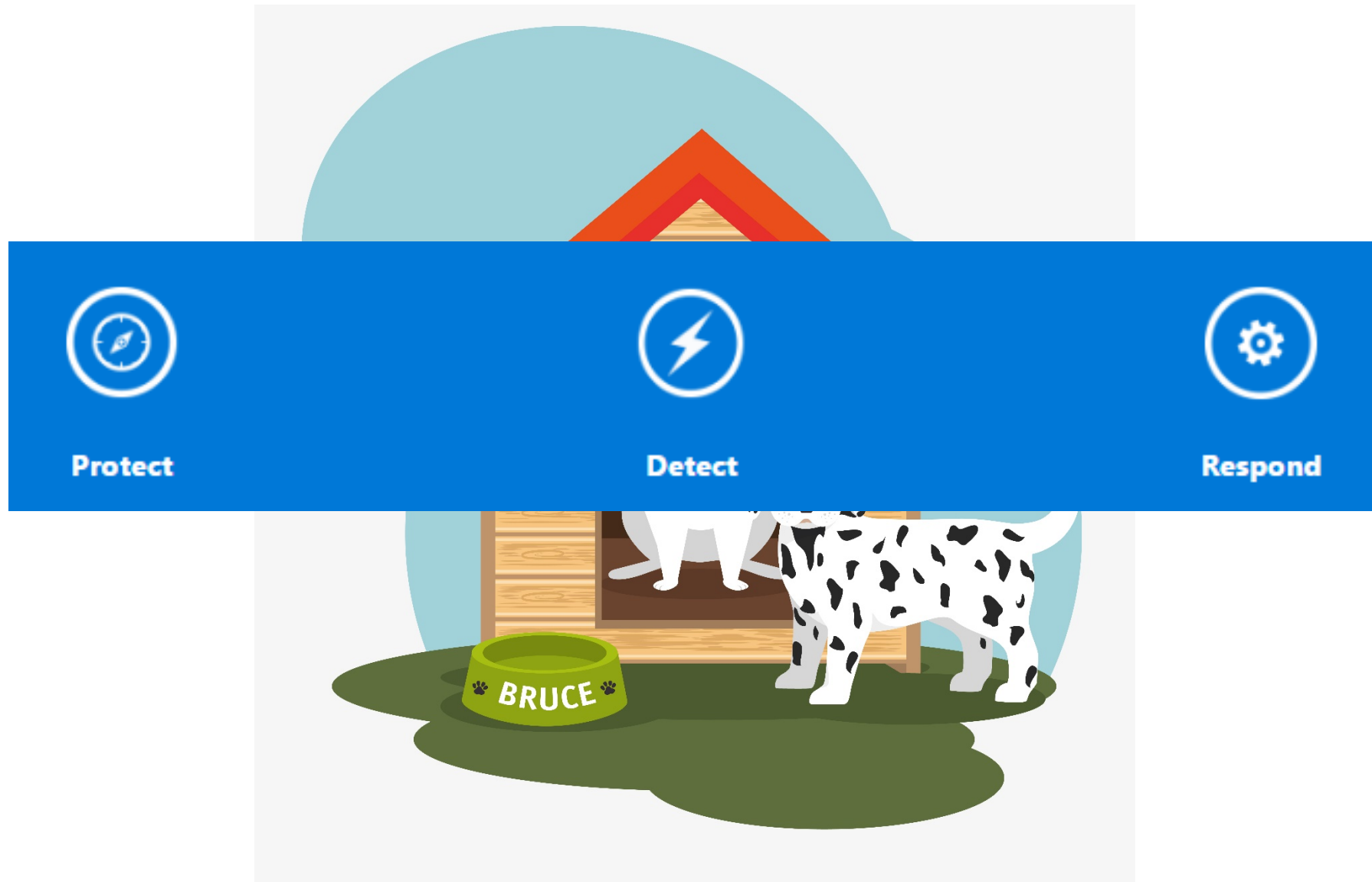
Do PowerShell log access



Azure Security Center



Dogfooding



Demo



3

Visit Security Center Pricing page

Test the service in the portal



For Further Learning

Play by Play: Azure Security (Mark Russinovich)

Excellent insight into Microsoft's Azure security practices

Creating a DMZ in Azure (Gavin McShera)

Nice implementation here





Microsoft Azure Security

Protect your solutions from malicious users using Microsoft Azure Services

Roberto Freato

[PACKT] enterprise
PUBLISHING professional expertise distilled

Book Reference

Published April 2015

See Chapter 1, "The Fundamentals of Security Standards"



Summary



Besides least privilege, encryption is mandatory

- Azure Disk Encryption for Windows and Linux VMs

Redundancy is to high availability, as isolation is to access control

Next module: Monitoring

