Advantages of Being an Azure Cloud Generalist

David Cobb

Hi, I'm David!

School Background

Here's Dave graduating from Clarence Central High School in NY.

Then went to UF 1998-1994 Switched from Engineering to Business School, CIS major.





My first tech job

- No idea what to do after graduation.
- While still in Gainesville around 1994, Got my first I.T. job from a temp agency.
- After a weekend of reading, I was the Novell Netware admin.
- The **network went down** the 2nd week. I scrambled, leveraged sneakernet and a lot of troubleshooting, and kept them working.
- My last day I received a standing ovation from the leadership team.
- That day I realized my worth, I could help others with
 computers and earn money & approval. Found my career







Dave's Work Background

- Career path: helpdesk, web developer, dba, system administrator, cloud engineer
- Mid career in 2002, as a web developer, I got my MCDBA.
- That opened the door to train & become a Microsoft Certified
 Trainer (MCT)

Learning and Teaching as an MCT

Between 2002 and 2013 I passed 22 exams, focused primarily on **Microsoft SQL**, but also Windows Server, Active Directory, Networking, and .Net development.

I'm good at tests.

I was certified & taught SQL 2000, 2005, 2008 & 2012

'You teach, you must be an expert'

Being a SQL teacher made me a 'SQL Expert' that **opened doors** to consulting, training & job opportunities.

Learn, Do, Teach

Transferable Skills - Learning new tech **quickly**, **keeping up** with tech changes, teaching tech **hands-on**, providing **tech support** for learners, finding **teachable moments** when things break.

Career since becoming an MCT

I taught SQL Server, Querying, Administration, Reporting, Analytics

Kept up with SQL Server certification thru 2012, then fell in love with PowerShell

Kept up with training as a side income stream during my career, in both consulting and full time job roles.

Comfortable job thru 2019, then...

My mid-life, mid-career crisis

- In September, 2019, I got the call
- 3 months to lose most of my income
- I have a mortgage & a family
- Do I get another job at 49?

Today

- Working from home
- Working on my own business
- Teaching Azure as freelance Microsoft Certified Trainer
- Combine teaching Azure 2-3 weeks a month with consulting on Azure & SQL
- I get to learn cool technologies, following my curiosities, helping people work and learn in the Azure cloud.

I'd like to share what I learned along the way.

I hope these ideas **help you do work you love** in the Azure cloud on your own terms.

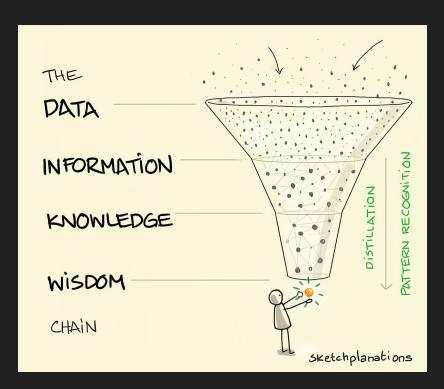
My goals for you in this talk

See learning cloud from a new perspective.

Leverage your **strengths** to grow your cloud career.

Decide mindfully **where to focus**, and *what to filter out*.

Be inspired to share what you know about cloud computing to grow more capable with both computers and people.



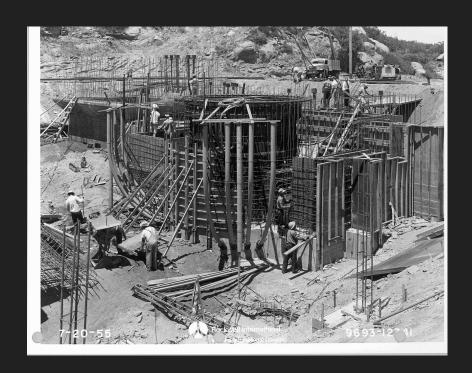
Under Construction!

This talk is an experiment.

This is an **attempt to distill what I've learned** in order to **help you in your Azure cloud career**.

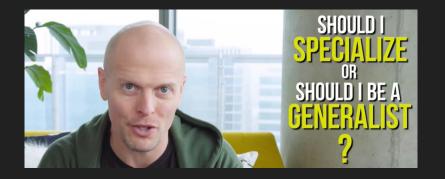
I crave your feedback, fill out this form or email david@davidcobb.net

- What was the most confusing idea?
- What was the most useful idea?
- What was the biggest waste of time?
- What would you like to hear more about?



Why an Azure Cloud Generalist?

Actually, I'm a specialized generalist





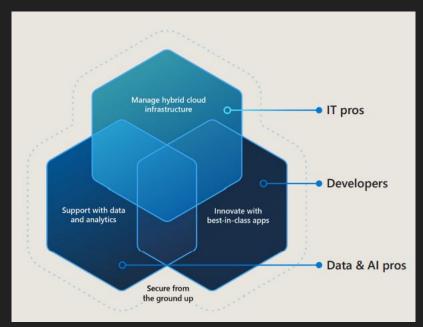
Specialized Generalist

<u>Should You Specialize or Be a Generalist? | Tim Ferriss - YouTube</u>

My Specialties

- Specialized in SQL since 2002
- Specialized in **PowerShell** since 2012
- Both these skills grant high leverage, and let me generalize my skills into other technology areas.
 - Web design, DBA, Sysadmin
- Teaching taught me how to learn tech rapidly
- These skills were my lever into Azure

My Azure training journey



http://aka.ms/azuretrainingjourney

IT Pro	
Administration	AZ-104
Security Technologies	AZ-500
Architect	AZ-305
Data & AI	
DBA	DP-300
Data Engineer	DP-203
Machine Learning	DP-100
PowerBI	DA-100
Developer	
Developer	AZ-204
DevOps	AZ-400
Al	AI-102

Tech Levers

What's a technology lever?

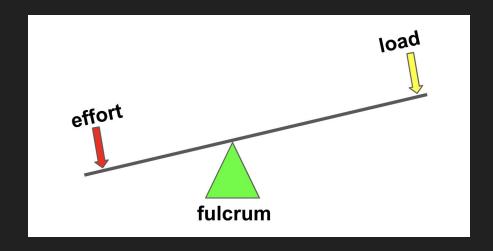
Tools that multiply output from a given amount of input.

As learners of any technology tool, we can apply the following inputs:

- Time
- Effort
- Money

The more leverage the tool gives us, the more it increases our:

- Ability
- Learning Speed
- Confidence

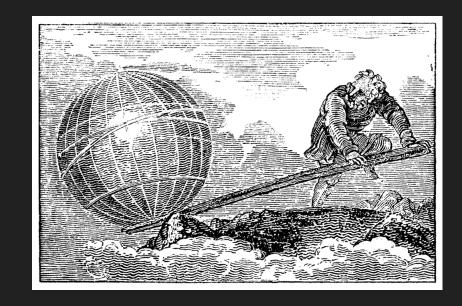


How do I achieve more leverage in my cloud career?

What cloud **technologies** can you invest your focus in that are *useable in many scenarios* that you want to be in?

What **tools** can you invest in that are useful over the long term?

What **skills** can you learn once and *use* in many places?



What are the high leverage technologies in Azure?

My favorite high leverage cloud tool?

Cloud Command Line

- PowerShell
- Azure CLI
- Azure Cloud Shell

Other high leverage cloud tools with Azure:

SQL (Relational DBs, KQL(?))

Infrastructure as Code (Terraform, Bicep, ARM)

Containers (Docker, Kubernetes)

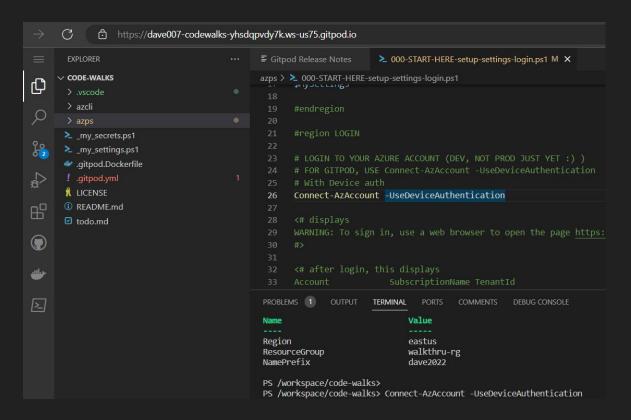
Azure SDKs (programming)

Can you think of others?

- What are your best tech levers now?
- Which would you like to master?

Learn Azure With PowerShell

Demo!



Action-Forcing Mechanisms

(Forcing Factors)

What can you commit to that FORCES you to ACT, LEARN and GROW?

- Join an Azure meetup
- Join a study group
- Find a study buddy

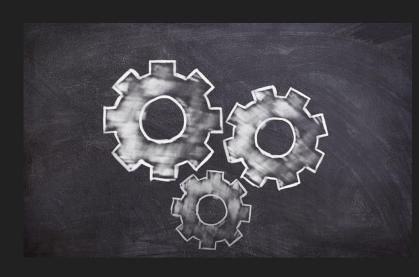
 Schedule that exam!

- Write a tech article?
- Blog Post?
- YouTube Video?

- Lunch & Learn?
- Teach a coworker?
- Teach a class?
- Give a user group talk?:)

General process for each Azure certification

- Review the materials available (Theory):
 - Microsoft Learn!
 - YouTube
 - MCT resources
- Do the Labs (Hands-On)
 - GitHub (free)
 - Lab Providers (\$)
- Do Practice Tests (Test-Prep)
 (find and fill my knowledge gaps)
 - Whizlabs (\$) or
 - MeasureUp (\$\$\$)



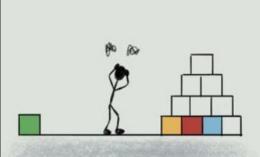
Multiple exam bonus points from Microsoft

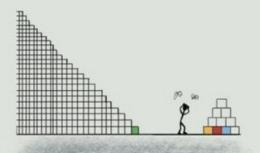
- What if I told you Microsoft gives you 10% bonus points for each exam you have already passed?
- The more tests you pass, the easier the next one is!
- While there are no bonus points from Microsoft (2), the tests do get easier each time, as the content overlaps.
- So many concepts you learn are applicable in future exams.

What if I fail?

- It happens!
- Make a notes dump of everything you were unsure of after the test.
- Reschedule that exam!
- It's only failure if you give up. Try, try again!

- What have you accomplished already?
- What commitments can you make to improve your career?
- What commitments are you putting off because they're hard?





THINGS I HAVE TO DO THINGS I HAVE SUCCESSFULLY DONE

Filters

HOMEWORK:

Divide everything you pay attention to this week into two categories:

Inputs that help me, inspire me, inform me, and motivate me.

Inputs that anger me, scare me, discourage me, distract me.

Filters that worked for me

Community!

- CloudSkills.io
 - I connected with Mike Pfeiffer's CloudSkills.io community in Feb 2020 and it made a career in Azure seem possible for me.
- User Groups!
 Shout out to the awe.
 - Shout out to the awesome South Florida user groups:
 - Fladotnet, GCUG, MCSFUG, SFSSUG, Data & Al

- Podcasts & Audio Books!
 I used commute and in-between time to listen to people with ideas and achievements I admire.
- Azure videos on YouTube & elsewhere
 Watched & learned from people who had
 mastered some aspect of Azure and
 shared their knowledge.

Stuff I filtered out

- News
- Politics
- Complaining
- Blaming
- Things out of my control

Every non-ideal thing you remove from your life makes room for something better!

- What inputs are in your left column you should filter out?
- What inputs are in your right column you should tune into?

What is a cloud expert, really?

An expert is someone just like you, further along the path, sharing what they know.

- Who has shared their Azure knowledge with you and guided or inspired you?
- How can you share what you've learned about Azure in some small way?

My Ikigai

HELPING LEARNERS SUCCEED

LEARNING COMPUTER TECHNOLOGY QUICKLY



CLOUD BUILDERS & TEACHERS

TEACHING CLOUD

TODO

What's my vision?

Where am I leading people, where do I want them to go?

How does LAWP fit in?

How does team training fit in?

How does custom courses fit in?

How does 'community harness' fit in?

How does Alongside.cc fit in?

Where's being a cloud generalist?

Take Action

- Share your feedback with me with this form, or email me david@davidcobb.net
- What is your next action step in your Azure cloud journey?
- How can I help?

Q & A



References

- Action-Forcing Mechanisms | Beyond Intractability
- David's videos on cloud
 - The Azure Cloud Journey of the DBA YouTube
 - MCSFUG 104: Azure Fundamentals / Azure PowerShell YouTube
 - Exploring Azure via Azure CLI YouTube
 - Get Started with AWS Command Line Interface (CLI)
 - David Cobb on Learning & Teaching Azure and AWS | CloudSkills.fm
 Episode 114

Being an MCT and keeping up with certifications

Between 2002 and 2013 I passed 22 exams, focused primarily on Microsoft SQL, but also Windows Server, Active Directory, Networking, and .Net development.

I was certified and able to teach SQL 2000, 2005, 2008 & 2012

Being a SQL teacher made me a 'SQL Expert' that opened doors to consulting, training & job opportunities.

Mostly I taught SQL administration, the basic DBA tasks, and SQL querying for new learners.

Learn, Do, Teach

FORCING FACTOR - Teaching drives learning

Starting with the basic exams, I studied & passed the exam, then seek opportunities to train that class.

I might get an opportunity to train and get a month or less to prepare.

The motivation to give a good class focuses my efforts.

My Process / The Gauntlet

- Dove into Azure, got certifications
- Once certified sought opportunities to teach
- Prepared intensely for each class the first time I delivered
 - Hands-On Demos & Labs
 - Theory Videos & Reading
- Give 100% during class, make happy students
- Choose the next certification goal

Forcing Factors that worked in my life

- MAKING THESE CHOICES...

- ...FORCED or ENABLED THESE OUTCOMES

- Commitment to becoming MCDBA

- Studied, learned, gained confidence

- Getting MCDBA **Certified** in SQL

- Getting opportunity to teach as MCT

Teaching & Speaking about SQL Server

- Opened career doors, gained confidence

- Commiting to teach each new Azure topic

- Accelerated learning of that topic

- Supporting students during Azure labs

Azure troubleshooting skills, confidence when things go sideways