



Azure Virtual Desktop with Terraform: Infrastructure as Code for a Secure Experience.

Carlos Solis Salazar

Is there a way to
implement a secure and
replicable infrastructure
that meets specific
standards?



Carlos Solís Salazar



About 170,000 results

- From Fandom
- Content**
- Overview
- Biography
- Trivia

fandom
https://desperatehousewives.fandom.com/wiki/Carlos_Solis

Carlos Solis Wiksteria Lane

Carlos Solis is a character from the TV show *Desperate Housewives*, played by **Ricardo Antonio Chavira**. He is the husband of Gabrielle Solis, a businesswoman, and a former convict who became religious after a near-death experience. [See more](#)



Carlos Solis is a religious ex-con, the husband of high maintenance wife, Gabrielle Solis. [See more](#)

Biography

Carlos Solis was born on the 29th of April 1963 in the Mexican state of Jalisco to Juanita and Diego Solis, his father was a police officer who was abusive... [See more](#)

Trivia

- Ricardo Antonio Chavira was almost replaced because producers felt his acting was stiff in the Pilot

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Images of Carlos Solis
bing.com/images

- Explore**
- Carlos Desperate Housewives
 - Carlos Solis Desperate...



Carlos Solis

Fictional character



Carlos Solis, a religious ex-con, is the husband of high maintenance wife, Gabrielle Solis.

- Extended Family** Lucia Marquez • Mr. Mar... Alejandro Perez • Un... +
- Others** Leticia Rowland • Yacht... Xilob-Me... Leonard • Virginia Hil... +
- Main** Ana • Andrew • Angie • Ben • Betty • ... Carlos • Chuck ... +
- Supporting** Austin • Caleb • Danielle • Dan... George • Kayla ... +
- Housewives** Susan Delfino • Lynette Scav... Van de Kamp • Gab... +
- Main Characters** Gabrielle Solis • Lynette ... Susan Delfino • Bre... +
- Supporting Characters** Porter Scavo • Pa... Parker Scavo • ... +

Image: desperatehousewives.fandom.com. Data: desperatehousewives.fandom.com

Feedback [See more](#)

Top-searched character from the Carlos Solis



Carlos Solis Salazar



Agenda

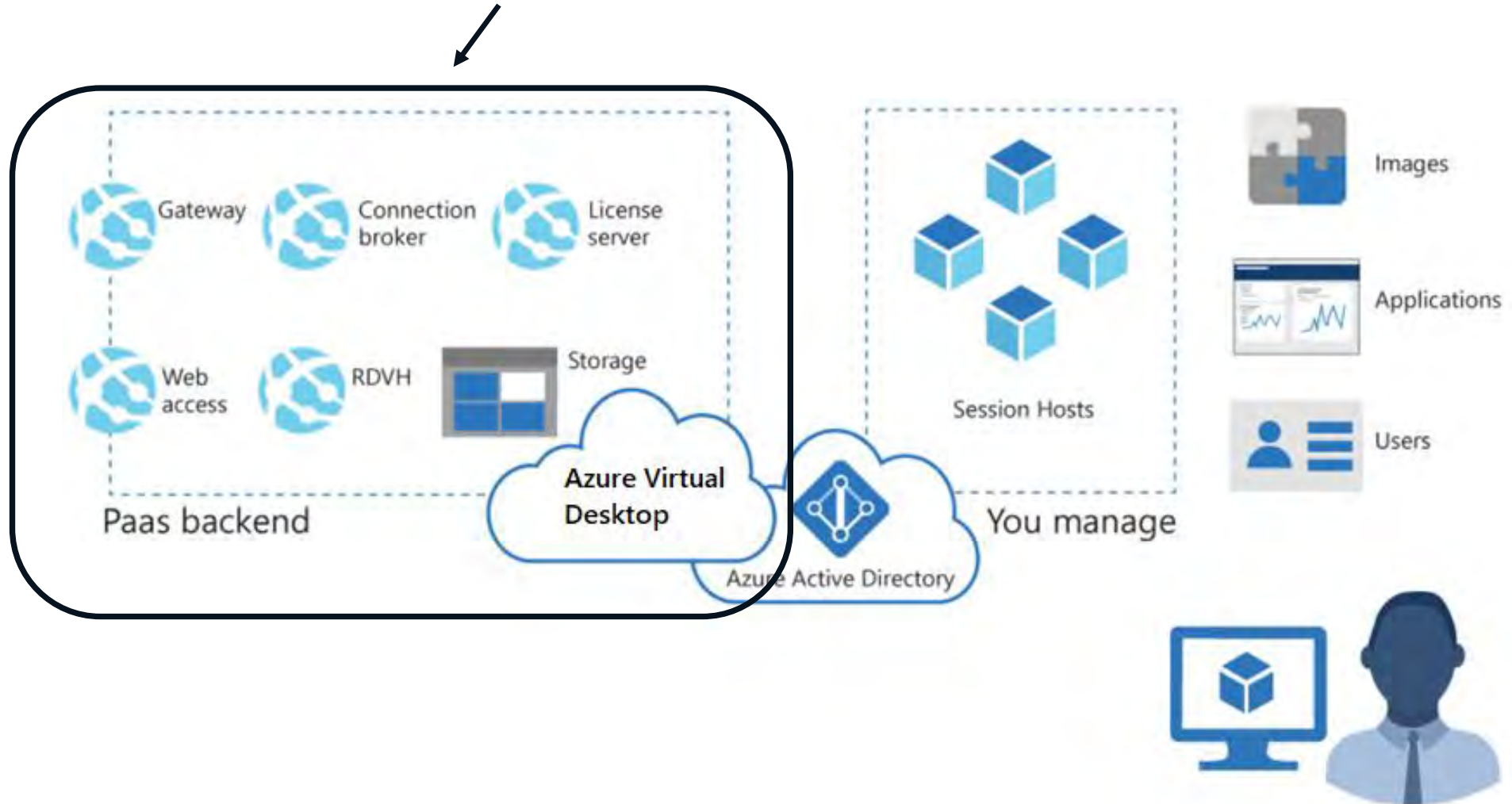
- What is Azure Virtual Desktop?
- Azure Virtual Desktop Architecture
- How to secure AVD?
- What is terraform?
- What is Infrastructure as Code with Terraform?
- Terraform Lifecycle
- How Terraform Works?
- Explore terraform code
- Final thoughts



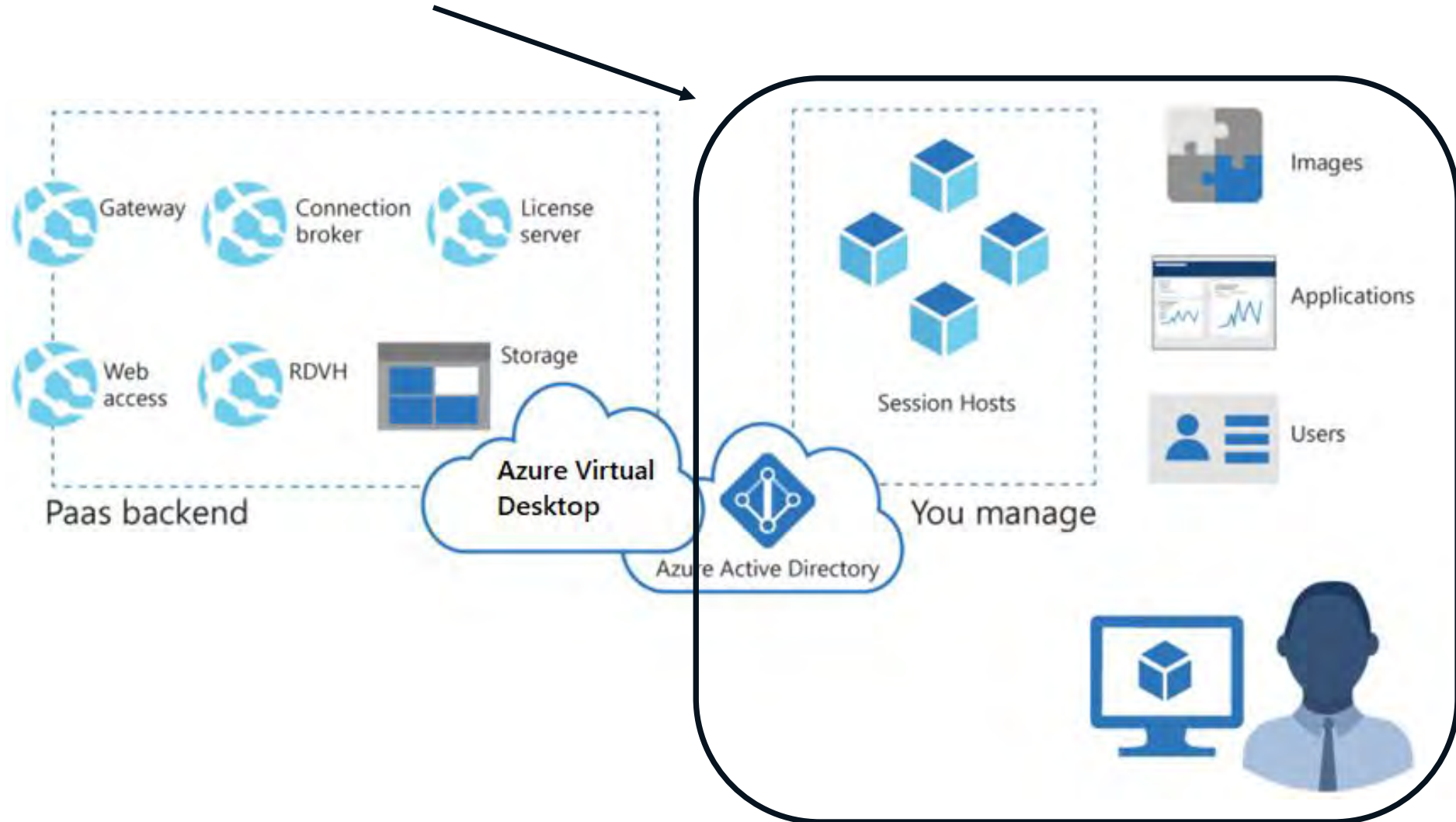
Azure Virtual Desktop is a desktop and application virtualization service that runs on Azure.

When to use AVD?

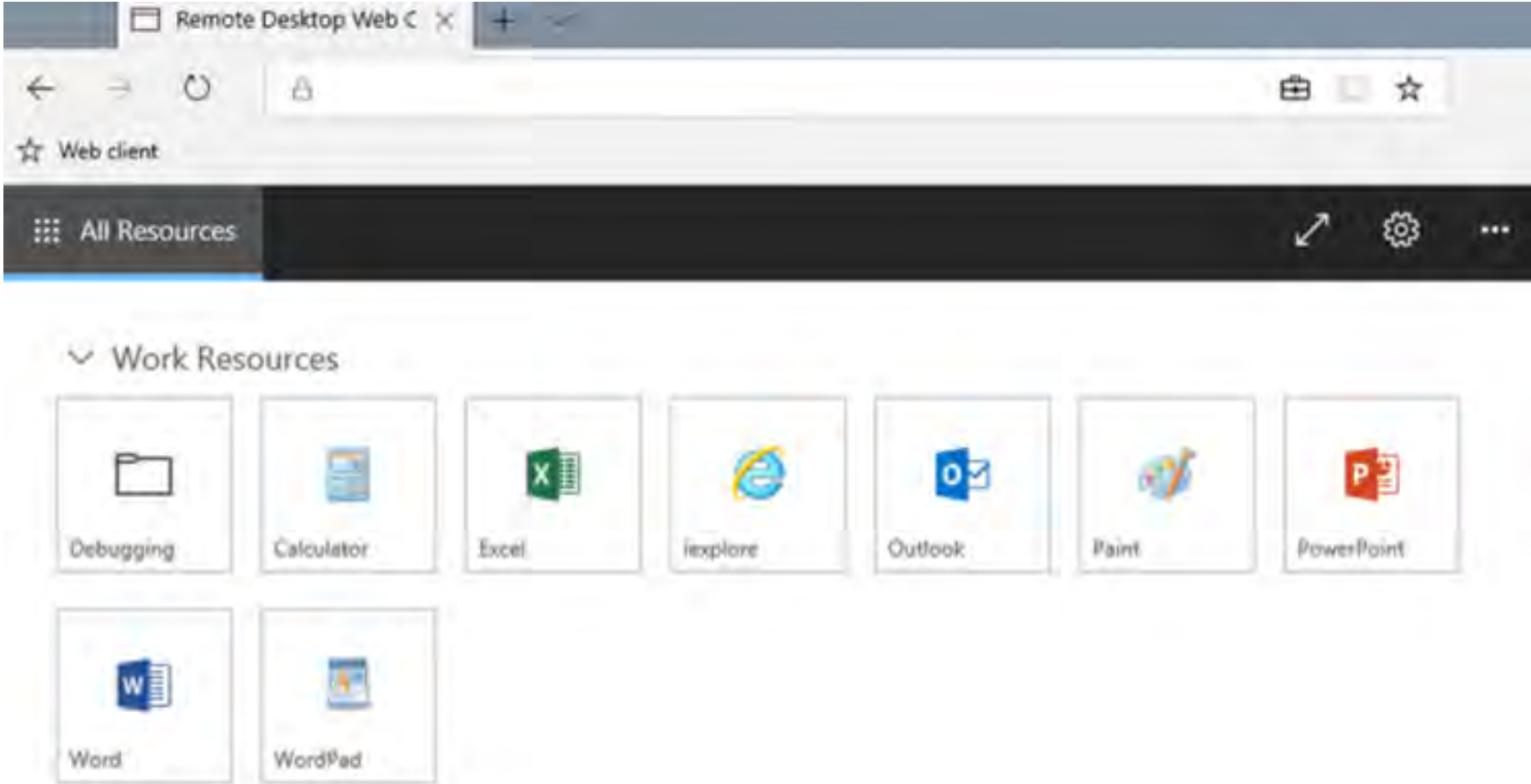
Azure Virtual Desktop components (managed by Azure)



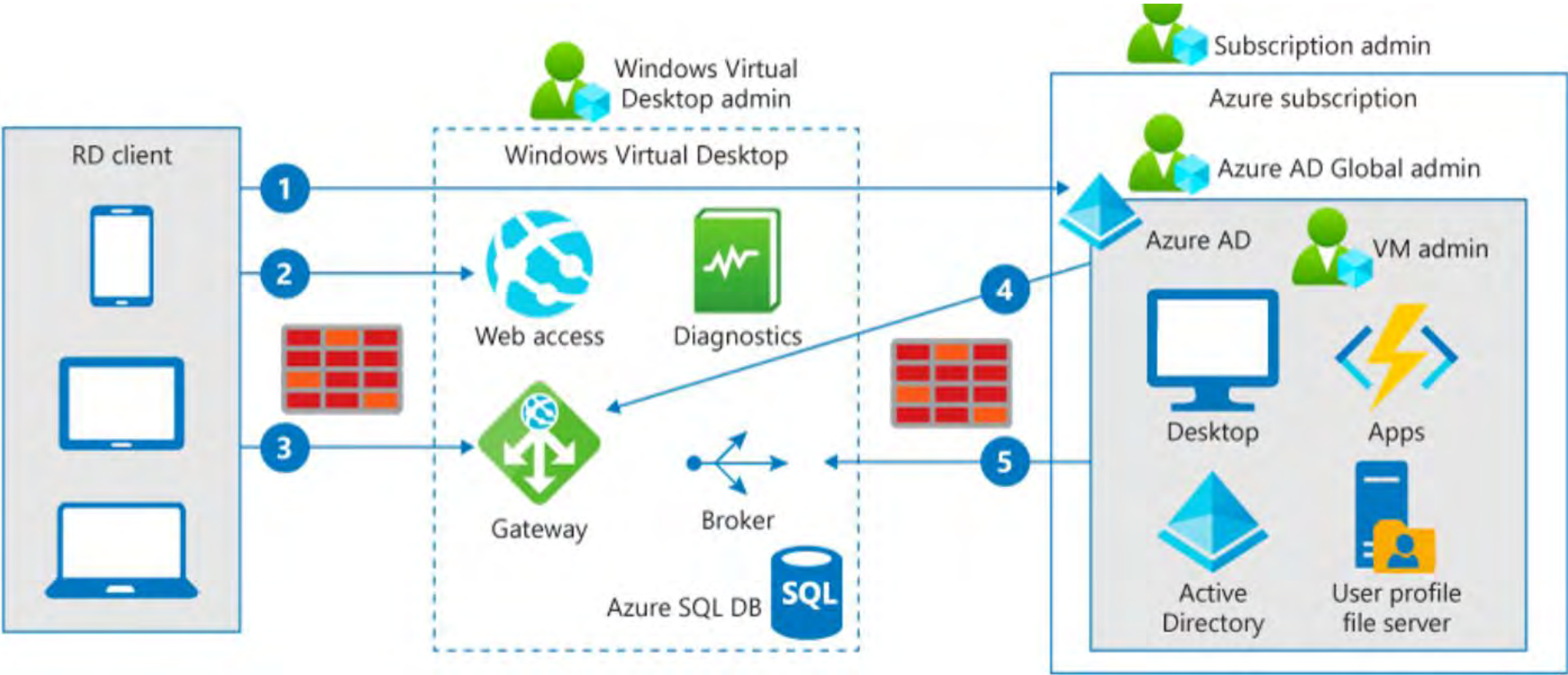
Azure Virtual Desktop components (managed by Customer)



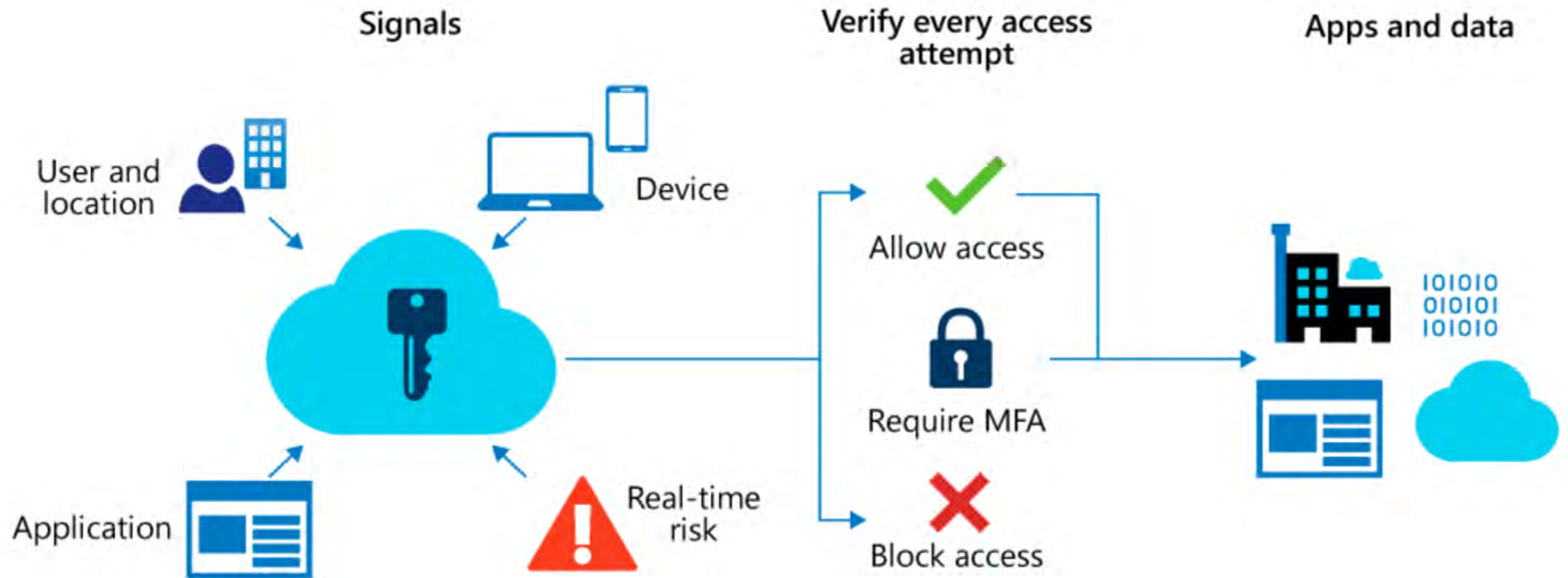
Azure Virtual Desktop in your browser



Understand Azure Virtual Desktop network connectivity



Security in Azure Virtual Desktop



Microsoft Defender for endpoint in session hosts

The screenshot displays the Microsoft Defender Security Center interface for a device named 'proazurewvd01'. The overall risk level is 'Medium', indicated by a red bar and the text 'Risk level: Medium'. There are 2 active alerts in 1 incident. The device details section shows the OS as 'Windows 10 WVD x64', which is highlighted with a red box. Other details include the domain 'proseware.com' and build number '19042'. The interface also shows sections for 'Active alerts', 'Security assessments', and 'Logged on users'.

Microsoft Defender Security Center

Device Search: Search Microsoft Defender for Endpoint

Security operations > proazurewvd01

Manage tags Isolate device Restrict app execution Run antivirus

Overview Alerts Timeline Security recommendations Software inventory Discovered vulnerabilities

Active alerts 180 days

Risk level: Medium

2 active alerts in 1 incident

■ Medium (2)

Security assessments

No data to show

Data is unavailable

View supported operating systems

See all recommendations

Logged on users

6 logged on use

Most frequent: bsteels

Least frequent: jesse

See all users

Tags

Security Info

Device details

Domain
proseware.com

OS
Windows 10 WVD x64
Version Other
Build 19042

Azure virtual desktop machines with Microsoft Intune

The screenshot displays the Microsoft Endpoint Manager admin center interface. The top navigation bar includes the title 'Microsoft Endpoint Manager admin center' and the user profile 'brad@msftem.com CONTOSO'. The left sidebar contains navigation options such as Home, Dashboard, All services, and various management tools. The main content area is titled 'Devices | All devices' and features a search bar, a refresh button, and a table of device records. The table columns include Device name, Managed by, Ownership, Compliance, OS, OS version, and Last check-in. The records show a mix of compliant and non-compliant devices, with one device (ab-2526552) marked as 'Not Compliant'.

Device name	Managed by	Ownership	Compliance	OS	OS version	Last check-in
WVD-dedic-1	Intune	Corporate	Compliant	Windows	10.0.18363.1016	9/2/2020, 3:53:54 P
WVD-person-0	Intune	Corporate	Compliant	Windows	10.0.18363.1016	9/2/2020, 3:54:34 P
WVD-person-2	Intune	Corporate	Compliant	Windows	10.0.18363.1016	9/2/2020, 3:51:44 P
WVDdedic-0	Intune	Corporate	Compliant	Windows	10.0.18363.1016	9/2/2020, 3:57:21 P
WVDshared-0	Intune	Corporate	Compliant	Windows	10.0.18363.1016	9/2/2020, 3:51:41 P
WVDshared-2	Intune	Corporate	Compliant	Windows	10.0.18363.1016	9/2/2020, 3:55:11 P
ab-2526552	Intune	Corporate	Not Compliant	Windows	10.0.17763.737	10/23/2019, 8:32:3i

Disaster recovery for Azure Virtual Desktop





...Let's talk about Terraform



Infrastructure as Code (IaC)

What is Infrastructure as Code with Terraform?

What is Infrastructure as Code with Terraform?



**Manage any
infrastructure**

What is Infrastructure as Code with Terraform?



**Manage any
infrastructure**



**Standardize your
deployment
workflow**

What is Infrastructure as Code with Terraform?



**Manage any
infrastructure**



**Standardize your
deployment
workflow**



**Track your
infrastructure**

What is Infrastructure as Code with Terraform?



**Manage any
infrastructure**



**Standardize your
deployment
workflow**



**Track your
infrastructure**



Collaborate

Terraform Lifecycle

Terraform Lifecycle

Init

```
terraform init
```


Terraform Lifecycle



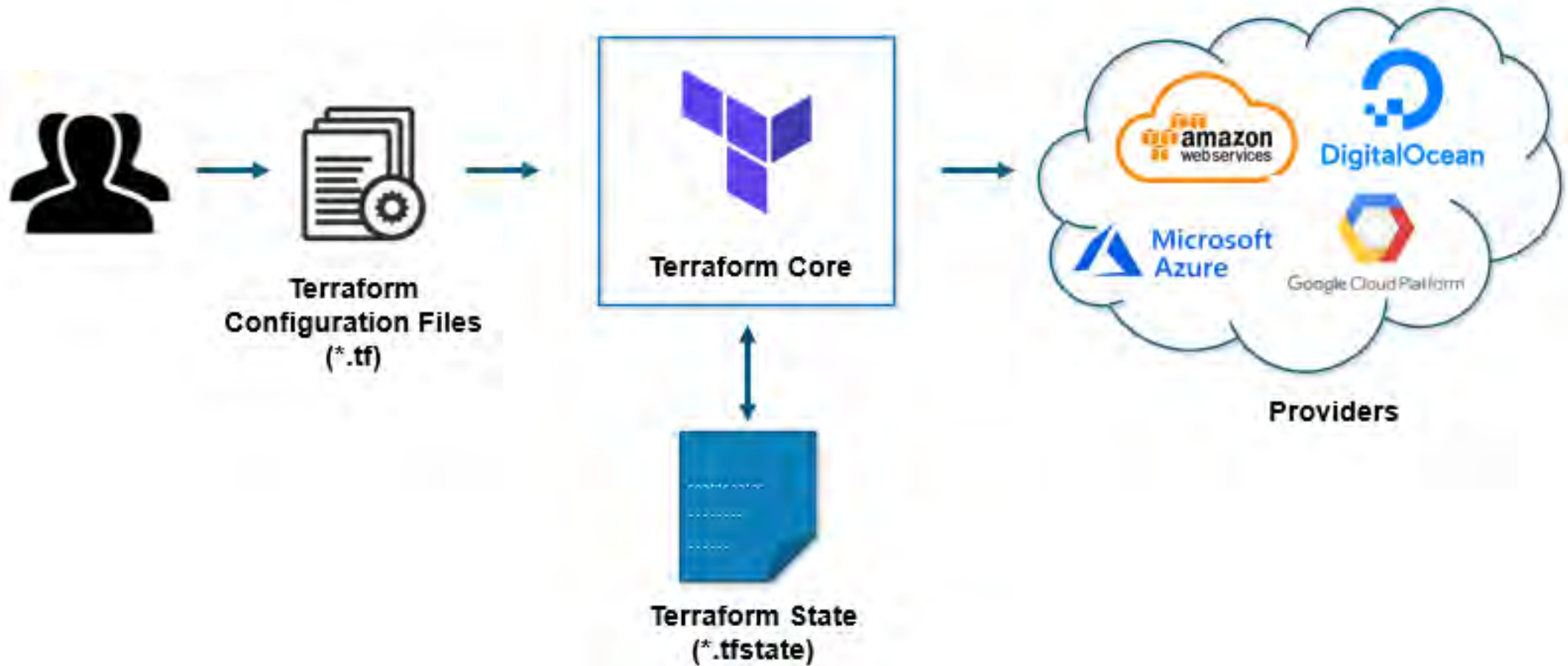
Terraform Lifecycle



Terraform Lifecycle



How Terraform Works?



ENOUGH TALKING!

SHOW ME A DEMO!!

imgflip.com

DEMO TIME!

**...WHAT COULD POSSIBLY GO
WRONG**

makeameme.org

Microsoft

EXAM

EXAMS

Exam AZ-140: Configuring and Operating Microsoft Azure Virtual Desktop



Candidates for this exam are server or desktop administrators with experience in configuring, managing, and maintaining Microsoft Azure Virtual Desktop.

To deliver these experiences, they work closely with Azure security engineers.

Candidates should have experience with Azure Virtual Desktop. They should be able to manage end-user desktop environments. These professionals use the Azure portal, templates, scripts, and PowerShell for deployment.

Important

The English language version of this exam was updated on 11/11/2021. A "Tip" box to see the current skills measured is available eight weeks after this date.

Passing score: 700. [Learn more about](#)

Final thoughts

Search Microsoft learning path **AZ-140:
Configuring and operating Microsoft Azure
Virtual Desktop**

Final thoughts

Ask questions in Microsoft Q&A and Stackoverflow

The screenshot shows the Microsoft Q&A website interface. At the top, there is a navigation bar with links for Microsoft, Learn, Documentation, Training, Certifications, Q&A, Code Samples, Shows, and Events. Below this is a search bar with the text "Find posts, tags, and users". A list of questions is displayed, including "Hyper-V Login in enhanced mode not possible" and "New host azure virtual desktop". To the right, there is a "POPULAR TAGS" section listing various technical topics like "not-supported", "sql-server-general", and "dotnet-csharp".

The screenshot shows the Stackoverflow website interface. At the top, there is a search bar with the text "[azure-active-directory] or [azure-ad-powershell-v2] or [azure-api-management] or [azure-cli] or [azure-keyvault] or [azure]". Below this is a section titled "Questions with my tags" with an "Ask Question" button. A list of questions is displayed, including "Use environment variable to set compilation debug value in Web.config" and "Can you run Java SDK and .net core in the same Azure web app?". To the right, there is a "The Overflow Blog" section with meta posts and a "Featured on Meta" section.

Carlos Solís Salazar

Microsoft MVP

- Active member of DOJO Community Foundation
- Microsoft Azure Panama User Group Organizer
- Active member of Microsoft Q&A Community Champions
- Senior Cloud Solutions Architect at OZ Digital Consulting.

If you would like to learn more about Microsoft Azure and become a cloud architect, schedule a mentoring session at

<https://www.soysoliscarlos.com/mentoria>

Or find me on social media as **@soysoliscarlos** or on LinkedIn [linkedin.com/in/soysoliscarlos/](https://www.linkedin.com/in/soysoliscarlos/).

