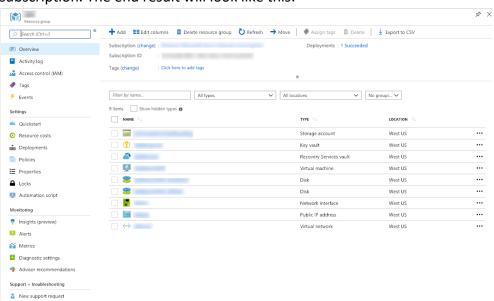
Azure Backup

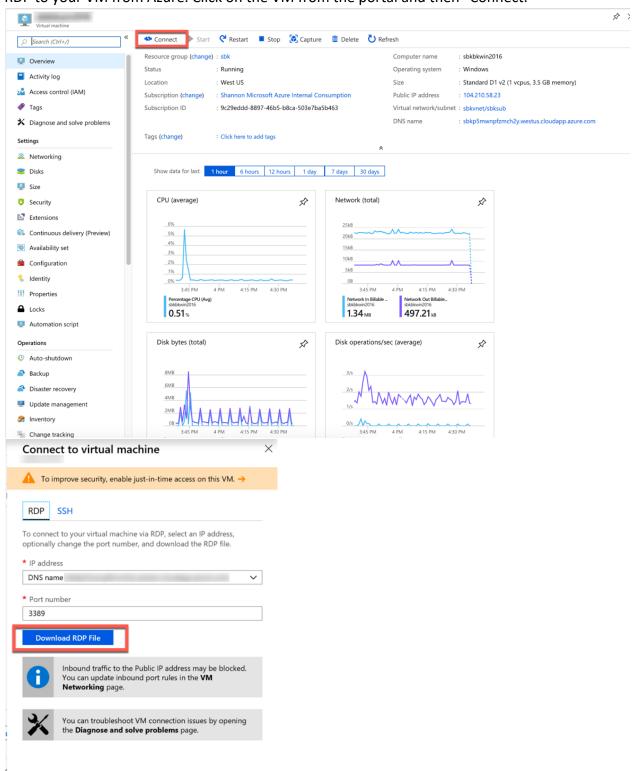
USE GITHUB REPO TO DEPLOY INFRASTRUCTURE

- 1. Open up a browser and head to the following website: aka.ms/bcdr-resil
- 2. On the top right-hand side of the webpage, either clone the repo locally or download a .zip file of the code/guides.
- 3. Go into the backup folder and locate all files.
- 4. Launch **deploy-bkresil-Env.ps1** inside a code editor (Visual Studio, Visual Studio Code, PowerShell ISE, Atom, etc.).
- 5. Running these commands will require the AzureRM module or the AZ module with the alias enabled.
- 6. Input variables for Hack Name, Subscription (use the Subscription Id), and Location.
- 7. Follow the steps inside the PowerShell script to connect your Azure account/subscription, build a new resource group, create a Key Vault, and input a secret. The code prompts for the secret reference name to be "VMPassword," but note that name can be changed. Ensure you know and remember both the username and password for later in the section. Hold off on step 6 until you perform a few tasks in the parameters json file.
- 8. Take note of the admin userName. Leaving it as is will work to get comfortable with deploying infrastructure from code, or you can change that information around.
- 9. Use the resource ID you extracted from the PowerShell script to call upon the Key Vault secret within the adminPassword parameter.
- 10. Pick a prefix for the envPrefixName (initials would be great).
- 11. Leave the other parameters as is.
- 12. Run step 6 from the PowerShell script and that will deploy the infrastructure to your subscription. The end result will look like this:



CREATE FILES ON SERVER DESKTOP

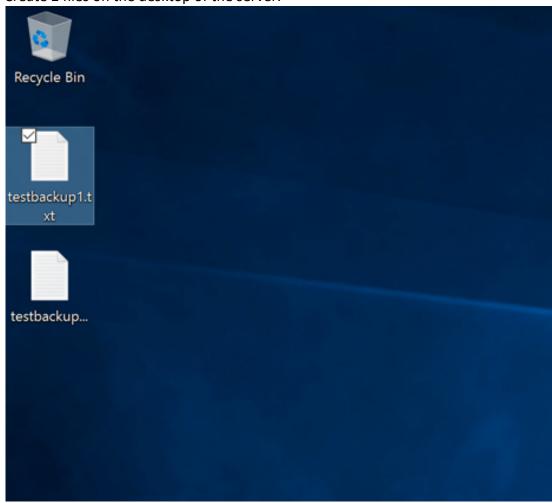
1. RDP to your VM from Azure. Click on the VM from the portal and then "Connect."



2. When the terminal services file downloads, open up the file and connect to the VM in Azure using your username/password from when you made the Key Vault secret.

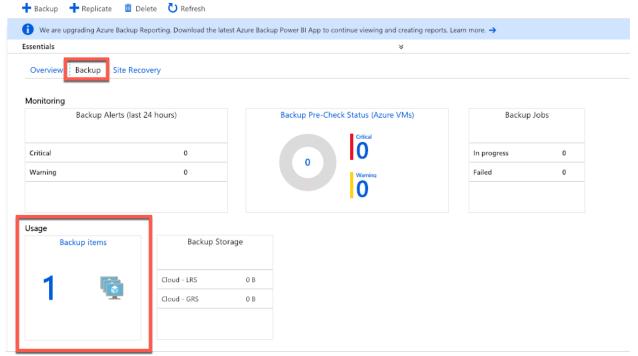


3. Create 2 files on the desktop of the server.



CONFIGURE BACKUPS

1. Ensure the VM registers to the Recovery Services Vault by clicking on the Backup tab. If you receive any errors during the ARM template deployment, try re-running the template. Click on "Backup Items."



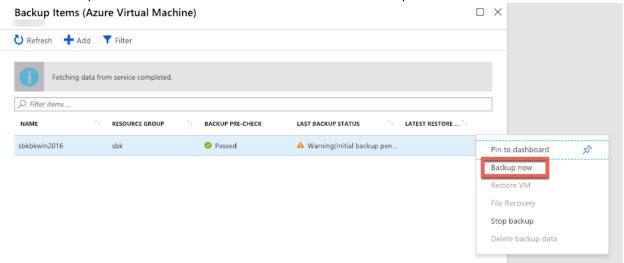
2. Take note of the Azure Virtual Machine count. Click on that section.



3. You should see the VM you just created, along with a backup pre-check passed green check mark, and a warning, indicating you have not yet backed up your VM.



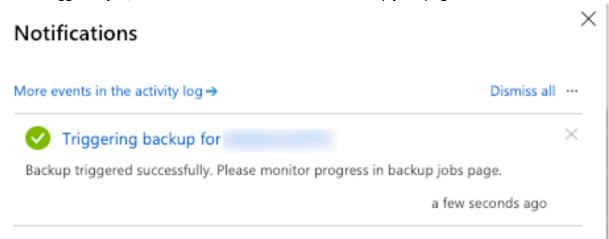
4. Click on the ellipses underneath "Latest Restore" and select "Backup now":



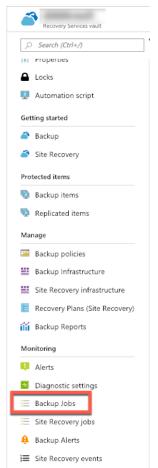
5. Keep the pre-populated date and click "OK":



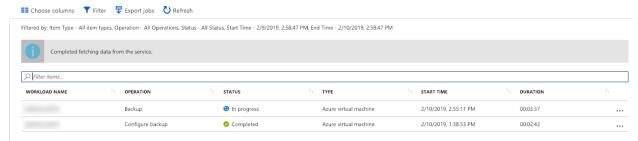
6. This task triggers a job, which can be monitored on the backup jobs page.



7. Underneath "Monitoring", you will see a Backup Jobs listed. Click on the Backup Jobs:

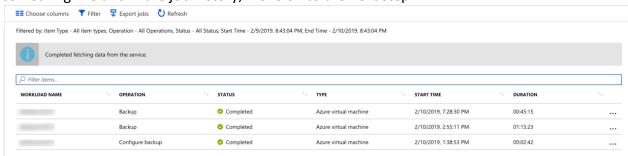


8. You should see the progress of your backup job. While this process finishes, start in on the Availability Zones lab:

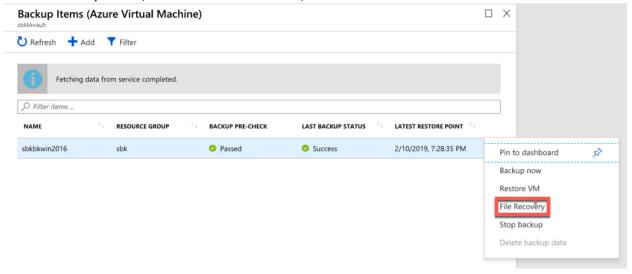


RESTORE FILE ON THE VIRTUAL MACHINE

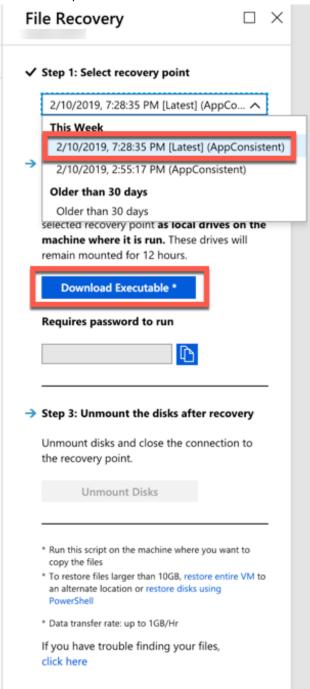
1. After the Availability Zone lab, flip back to the backup job progress. Once you see something like this in the job history, move on to the next step:



- 2. On the server, delete 1 of the files you created.
- 3. Click on Backup Items, Azure Virtual Machines,



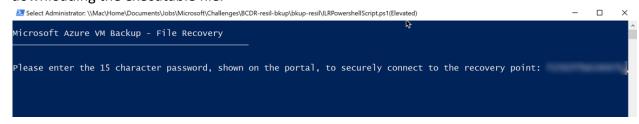
4. Pick the latest Application Consistent snapshot and click on Download Executable. For ease of use, download the executable on the Azure virtual machine:



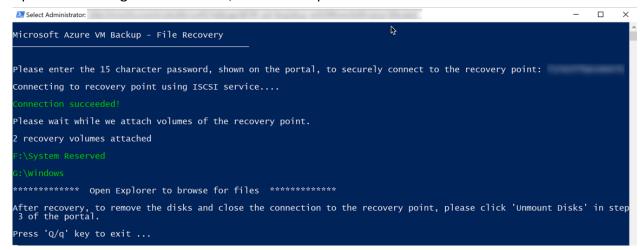
5. Once the executable downloads, you will be prompted to save or run the file. The file needs to run as an elevated account, so saving it locally will help. Additionally, you will be presented with a 1 time password to run the script that restores the file.



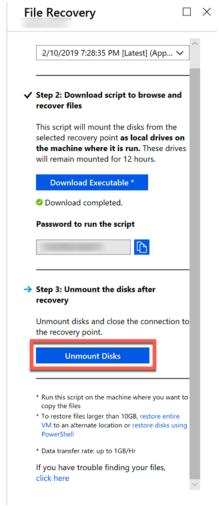
6. Once the file is launched, PowerShell will open. Input the password generated from downloading the executable file.



7. Upon establishing the connection, Azure Backup will mount the files to the local server.



- 8. Open up Windows Explorer, browse to the mounted drive, and copy files over to the local desktop.
- 9. Press Q or q to exit.
- 10. Ensure you unmount the disks from the server:



11. After a few seconds, the drives will disappear.

RESTORE VIRTUAL MACHINE FROM BACKUP 1.