



USA 2019

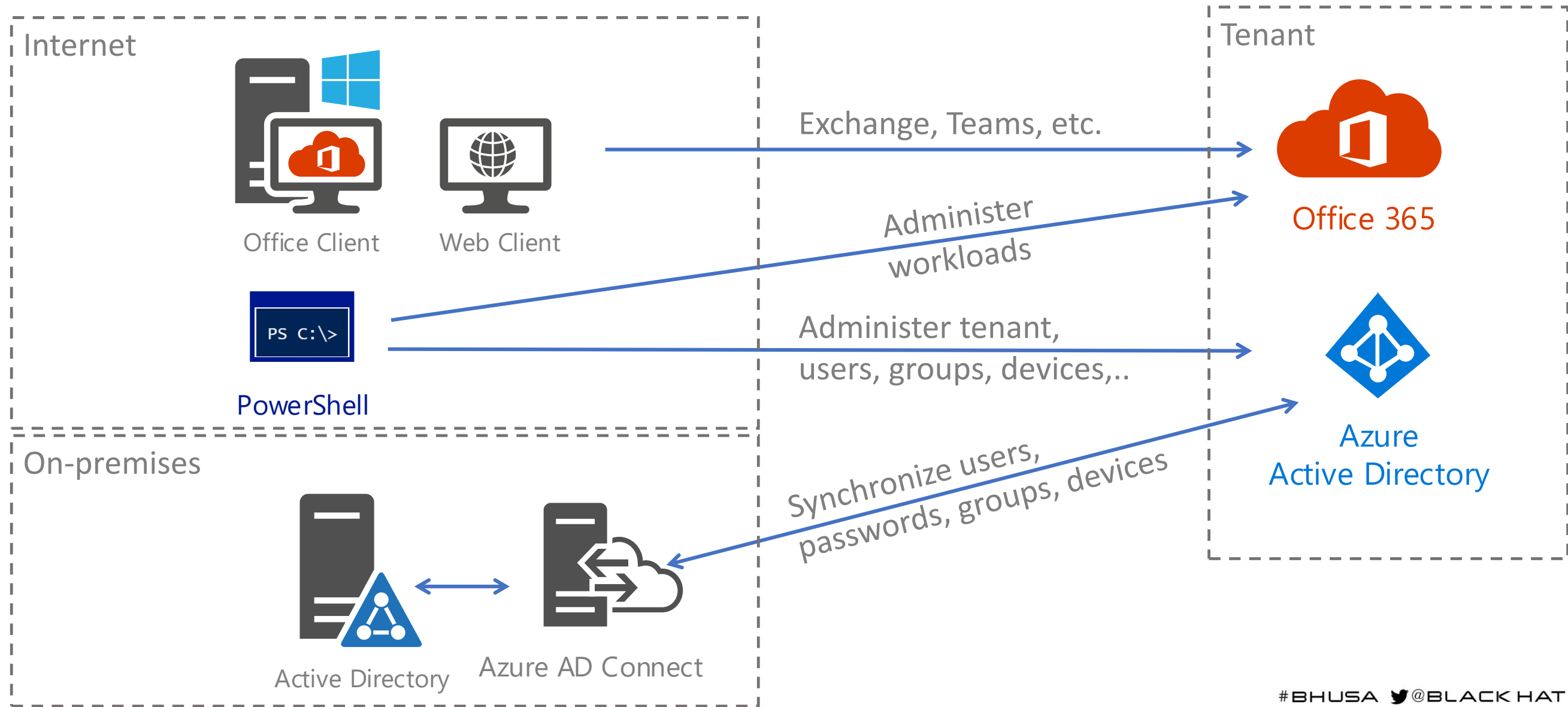
AUGUST 3-8, 2019

MANDALAY BAY / LAS VEGAS

AADInternals

- PowerShell module for administering Office 365/Azure AD
 - Utilizes (mostly) administrative REST APIs
 - Reveal “hidden” information
 - Create backdoors
 - Bypass security features (e.g. MFA)
- Available at:
 - <http://o365blog.com/aadinternals>
 - <https://github.com/Gerenios/AADInternals>
 - PS: \>Install-Module AADInternals

Office 365 / Azure AD concepts



Azure AD Identity options

- Managed
 - Authentication performed by Azure AD
 - Against Azure AD
 - Cloud-only
 - Password-Hash Synchronization (PHS)
 - Against on-prem AD
 - Pass-Through Authentication (PTA)
- Federated
 - Authentication performed by external Identity Provider (i.e. on-prem AD)

Demo

- Getting information
- Azure AD connect
- Pass-through Authentication (PTA)
- Federated Identity
- Bypassing MFA

Demo setup

Internet

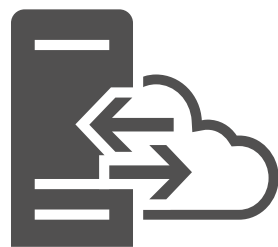


Server2 (WORKGROUP)

On-premises



DC.blackhat.myo365.site Server1.blackhat.myo365.site



Tenant



Office 365



Azure
Active Directory

blackhat.myo365.site