



TECH EVENTS WITH PERSPECTIVE

Visual Studio **LIVE!**
EXPERT SOLUTIONS FOR ENTERPRISE DEVELOPERS

SQL Server **LIVE!**
TRAINING FOR DBAs AND IT PROS

TECHMENTOR
IN-DEPTH TRAINING FOR IT PROS

Artificial
Intelligence **LIVE!**
AI FOR DEVELOPERS AND DATA SCIENTISTS

Cloud &
Containers **LIVE!**
CLOUD-NATIVE, PaaS & SERVERLESS COMPUTING

Up Your Windows 365 Game with Microsoft Graph and PowerShell

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Level: Intermediate

The Ultimate Education Destination
ORLANDO 2022







SAVE TIME

**DO MORE WITH
LESS HANDS**

KEEP UP



NICKLAS AHLBERG

SENIOR SYSTEM ENGINEER

MVP, MCT

@AHLBERGNICKLAS

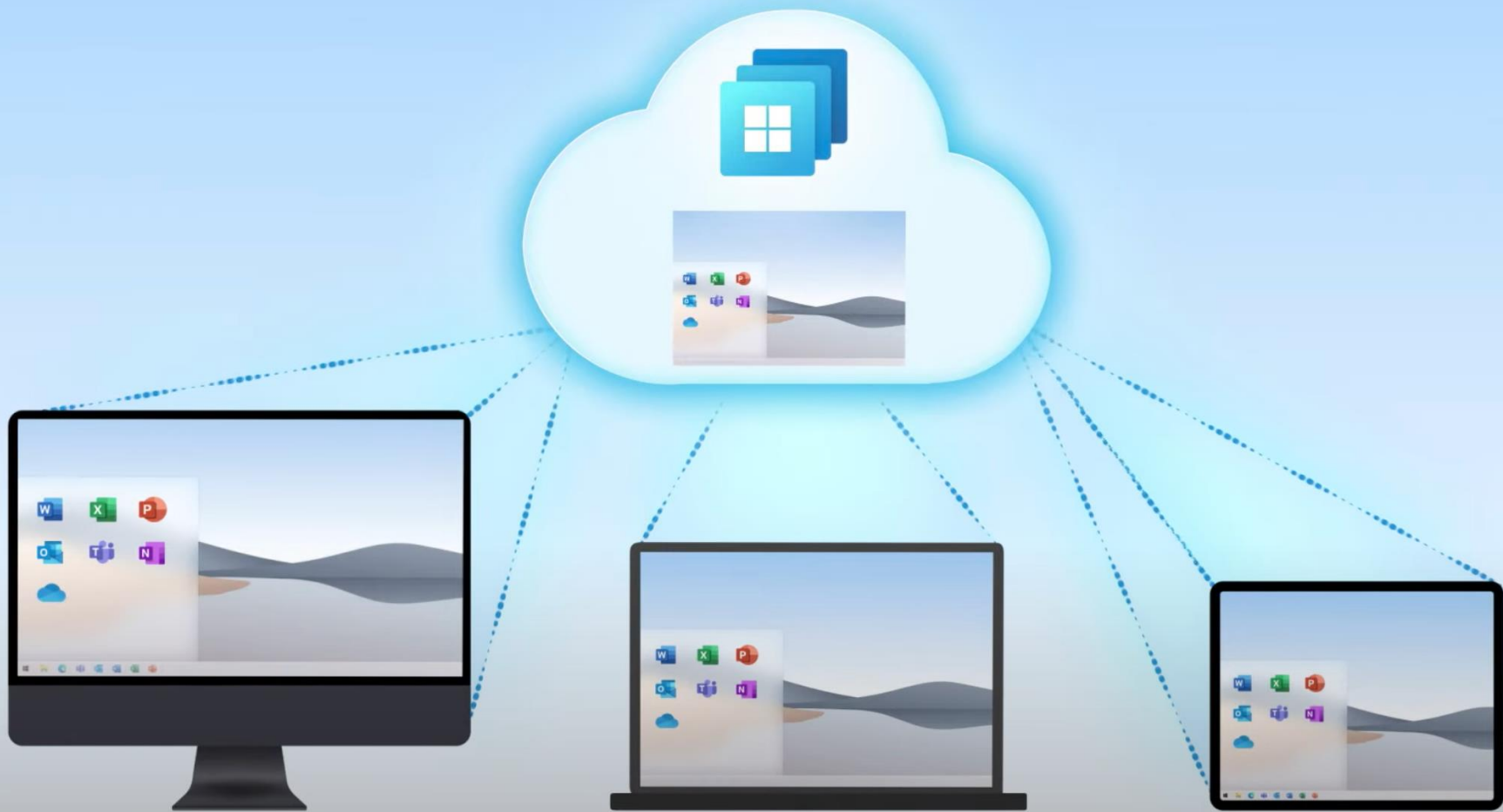
ROCKENROLL.TECH



QUESTIONS?

RESOURCES?

SLIDES?



 Windows 365



Microsoft Intune

Use Intune to manage W365!



Custom images

Custom or Gallery images.



Security

Apply same mindset as with physical devices



Same apps and policies



Measure compliance before access is allowed



Custom: Build your own image, based on specific needs



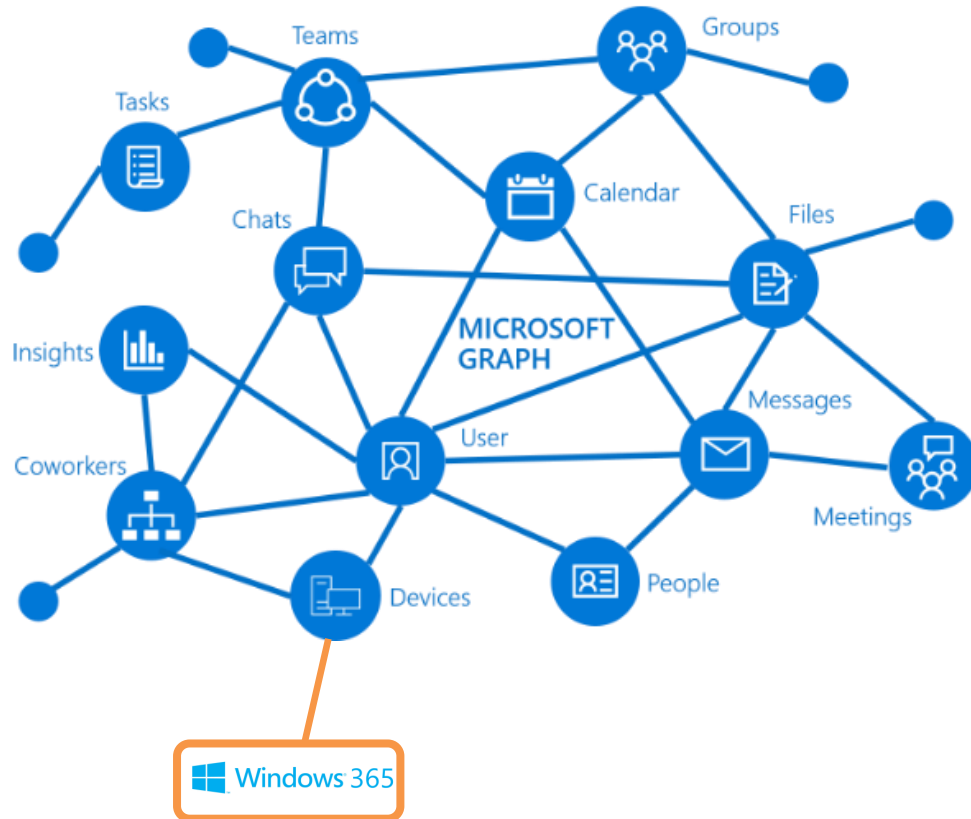
Gallery: Managed by Microsoft. Updated on a monthly basis

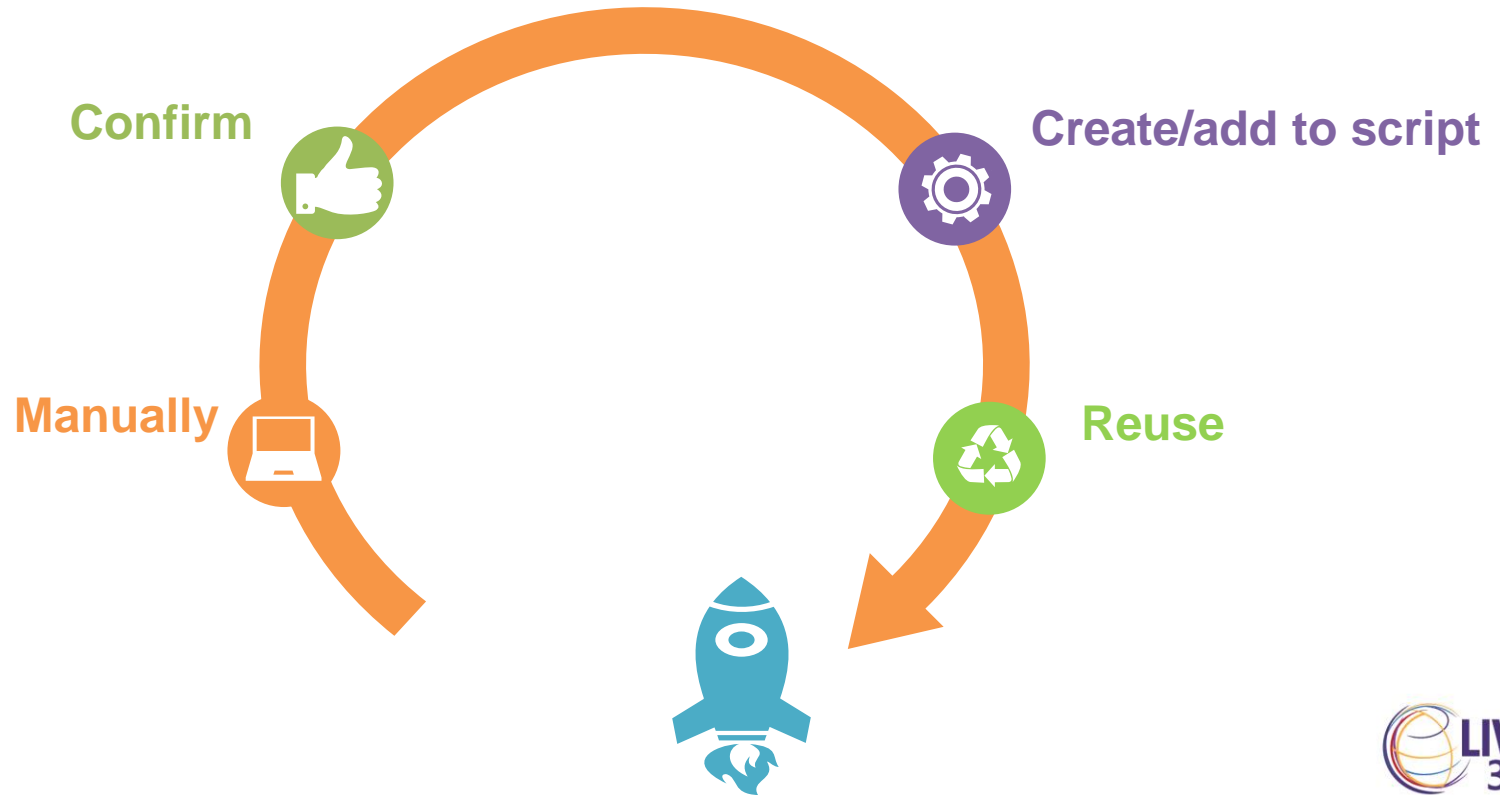


W365 has its own security baseline



Conditional Access, Microsoft Defender for..





DEMO

DO WE HAVE TO BE DEVELOPERS?

The background of the slide features a close-up of water with numerous small, shimmering bubbles. A faint rainbow reflection is visible at the bottom of the frame. Two purple text boxes are overlaid on the image.

DEMO

**INTUNE HYDRATION DEMO
(MOVE BETWEEN TENANTS)**

DEMO

GRAPH, POWERSHELL & WINDOWS 365

A top-down view of a white desk. On the left, a golden skull sits on a black plate next to a small potted plant and a white cup of coffee. In the center, a laptop displays a grid of colorful posters. To the right, a book with a colorful cover and a large sheet of paper with handwritten text are visible.

DEMO

ONBOARDING EXPERIENCE

Input Confirm Password

New Azure AD User

First name:


Last name:

Department:

Usage location:

Domain:

< Back Connect Next > Cancel Finish



```

19 #endregion
20 #region Get data, provisioning
21 $parameters = @{
22     "apiURL" = "https://graph.microsoft.com/beta/deviceManagement/virtualEndpoint/cloudPCs"
23     "method" = "Get"
24 }
25 $data = Invoke-RestMethod -Headers @{ Authorization = "Bearer ${token}" } -Uri $parameters.apiURL -Method $parameters.method
26 $provisioningDevices = $data.value | Where-Object { $_.Status -eq 'provisioning' }
27
28 If ($provisioningDevices) {
29     Write-Host "A new W365 cloudPC is being provisioned. We will send an email to $($provisioningDevices.userPrincipalName) when it is ready!" -ForegroundColor Magenta
30     Do {
31         $provisioningStatus = Invoke-RestMethod -Headers @{ Authorization = "Bearer ${token}" } -Uri "https://graph.microsoft.com/beta/deviceManagement/virtualEndpoint/cloudPCs/$($provisioningDevices.id)" -Method $parameters.method
32         Write-Host "Current provisioning status is: $($provisioningStatus.status)" -ForegroundColor Yellow
33         If ($provisioningStatus.status -eq 'provisioning') { Start-Sleep -Seconds 300 } # Re-check every 5 min if still provisioning
34     } Until ($provisioningStatus.status -eq 'Provisioned')
35
36     Write-Host "Provisioning is done, sending email!" -ForegroundColor Green
37     Send-W365WelcomeEmail # Send email when done
38 }
39
40 else {
41     Write-Host "No cloudPCs are currently being provisioned" -ForegroundColor Magenta
42 }
43 #endregion
44
45 #region SendEmail
46 1 reference
47 function Send-W365WelcomeEmail {
48     $parameters = @{
49         "apiURL" = "https://graph.microsoft.com/v1.0/me/microsoft.graph.sendMail"
50         "method" = "post"
51     }
52
53     $body = @{
54         "message": {
55             "subject": "Your Windows 365 CloudPC is ready for you!",
56             "body": {
57                 "contentType": "Text",
58                 "content": "Good news! Your Windows 365 CloudPC is ready for you!
59                 `n Start here: https://Windows365.microsoft.com
60                 `n Your device name is: $($provisioningStatus.managedDeviceName)"
61             },
62             "toRecipients": [
63                 {
64                     "emailAddress": {
65                         "name": "HR User@rockenroll.tech",
66                         "address": "HR.User@rockenroll.tech"
67                     }
68                 }
69             ]
70         }
71     }
72 }

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```

$provisioningStatus = Invoke-RestMethod -Headers @{ Authorization = "Bearer ${token}" } -Uri "https://graph.microsoft.com/beta/deviceManagement/virtualEndpoint/cloudPCs/$($provisioningDevices.id)" -Method $parameters.method
Write-Host "Current provisioning status is: $($provisioningStatus.status)" -ForegroundColor Yellow
If ($provisioningStatus.status -eq 'provisioning') { Start-Sleep -Seconds 300 } # Re-check every 5 min if still provisioning
} Until ($provisioningStatus.status -eq 'Provisioned')

Write-Host "Provisioning is done, sending email!" -ForegroundColor Green
Send-W365WelcomeEmail # Send email when done
}

else {
    Write-Host "No cloudPCs are currently being provisioned" -ForegroundColor Magenta
}
#endregion

```

```

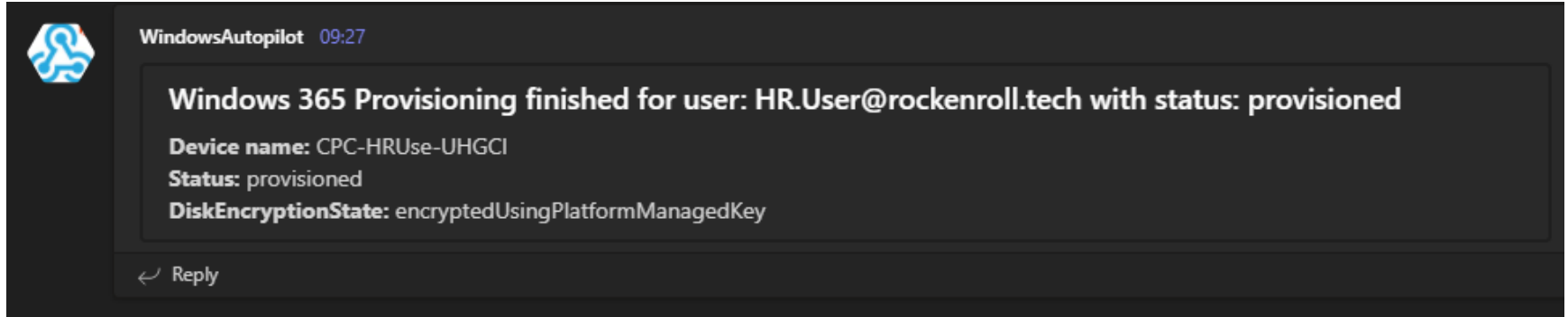
A new W365 cloudPC is being provisioned. We will send an email to HR.User@rockenroll.tech when it is ready!
Current provisioning status is: provisioning

```

➔ Forward



Teams Webhook





DEMO

ROCK ENROLL TOOL

Thank you!



@AHLBERGNICKLAS

ROCKENROLL.TECH



Resources

Blog: <https://www.rockenroll.tech/>

Rock Enroll Tool: [Rock Enroll Tool](#)

Twitter: @ahlbergNicklas

LinkedIn: [Nicklas Ahlberg | LinkedIn](#)

Graph Explorer: <https://aka.ms/GE>

Identity Governance: [Identity Governance - Microsoft Azure](#)

Windows 365: [Get started with Windows 365 Business and Cloud PCs](#)

Session Survey

- Your feedback is very important to us
- Please take a moment to complete the session survey found in the mobile app
- Use the QR code or search for “Converge360 Events” in your app store
- Find this session on the Agenda tab
- Click “Session Evaluation”
- Thank you!

