blackhat ASIA 2025

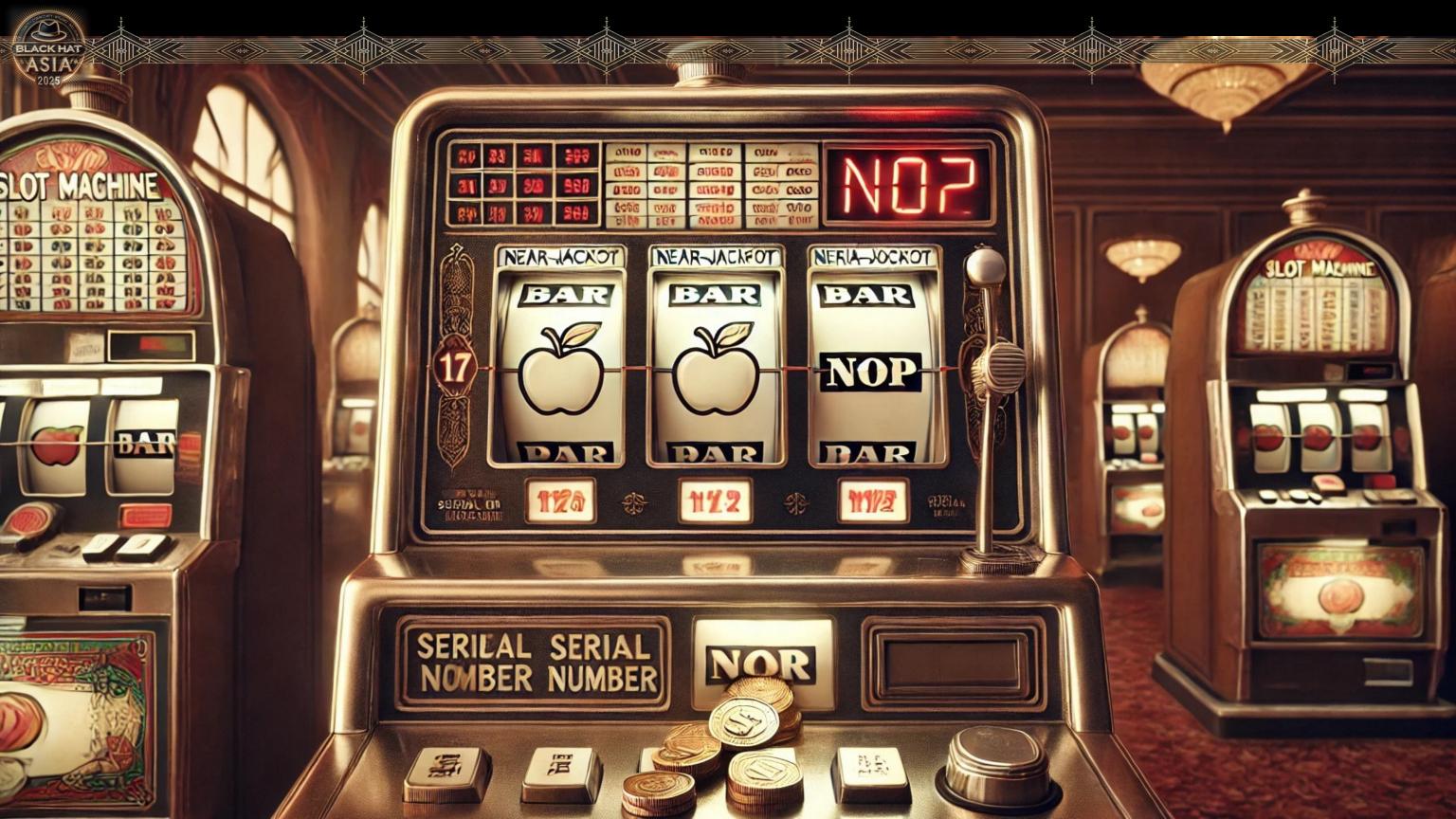
APRIL 3-4, 2025

BRIEFINGS

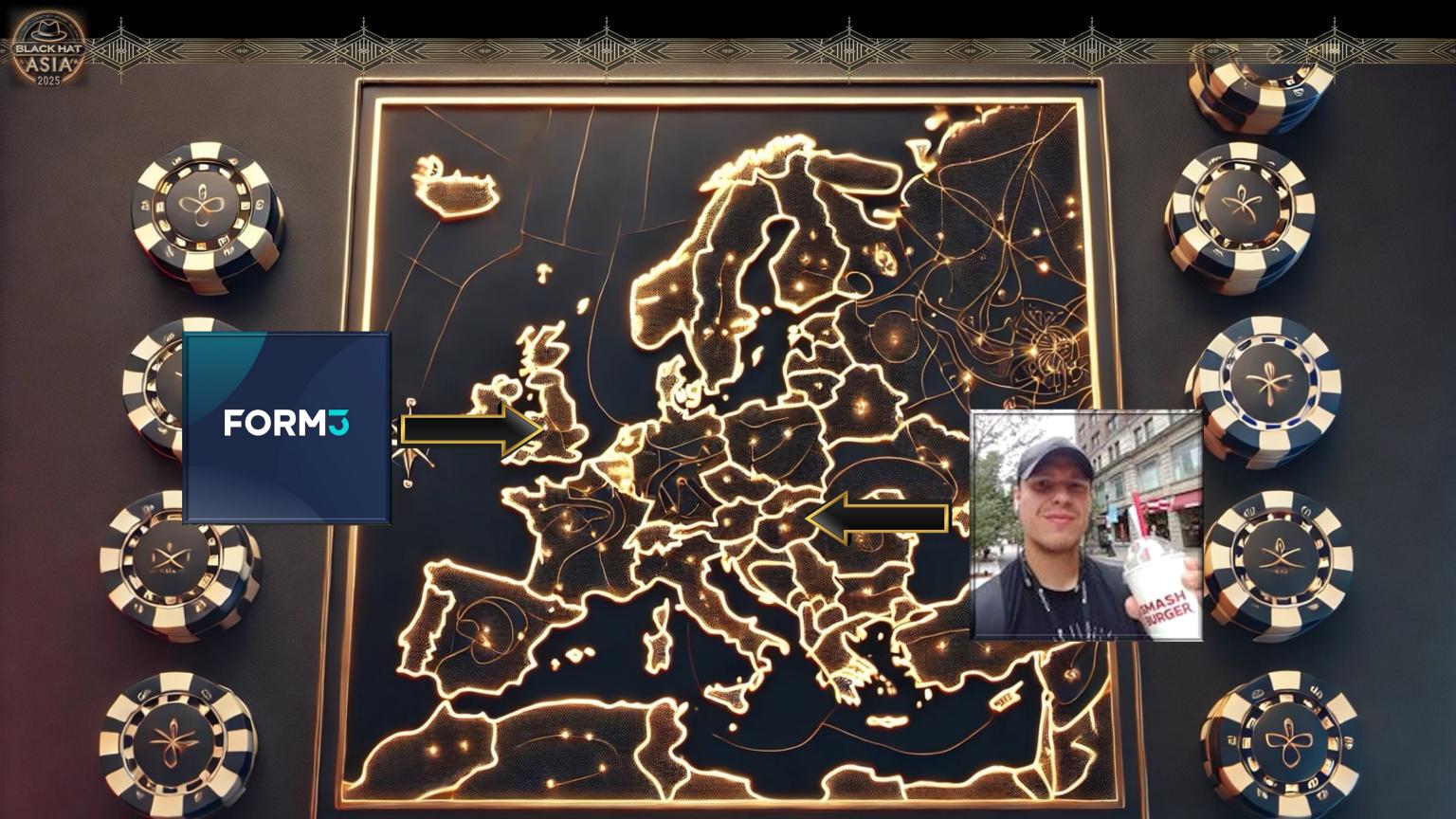
IMPOSTOR SYNDROME HACKING APPLE MDMS USING ROGUE DEVICE ENROLMENTS

MARCELL MOLNAR

#BHAS @BlackHatEvents











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Admin user 11:58

1. A device with serial number was purchased by Form3 back in 15 December

*****>>>**

- 2. The serial number was added to **MDM** by Apple support
- 3. The machine most likely sat in stock until it was sent to **user**

- 4. Device was enrolled to MDM
- 5. Device is active and still used by user from expected location/IP ip.ip.ip.ip
- 6. Device with the same serial number was enrolled to MDM one more time in Brasil with IP ip.ip.ip.ip
- 7. EDR agent triggered and event

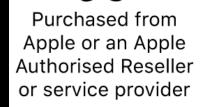
to disable EDR agent

- 8. The unknown device was marked for purge in MDM but haven't checked in since
- 9. Systems Team assumption is, Apple assigned the same Serial Number to another completely different device and sold it. Since enrolment is fully automatic and purely based on Serial Number, it was auto-enrolled to Form3
- 10. Systems Team has support ticket opened with Apple Business waiting for confirmation on details on duplicate serial numbers/any additional details

(edited)

when user on unknown device tried





**

Customer Account

**

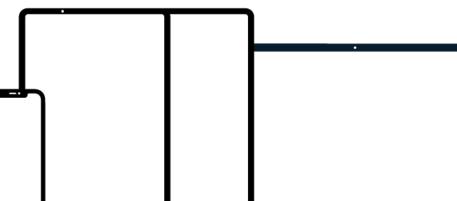
Apple School Manager or Apple Business Manager

MDM solution

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Apple Configurator



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Q "serial" " C02" "macbook"

Filter by

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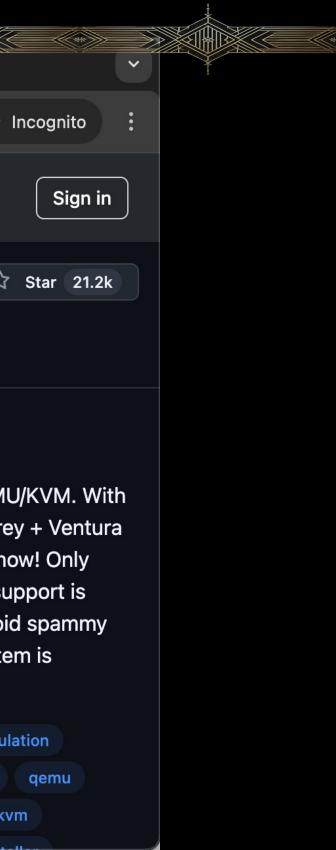
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backups	Build script for Ventura final (3 years ago	required.
customized	Batch Update 2 - September	2 years ago	macos osx emula
resources	Hot fixes	2 years ago	virtualization kvm hackintosh qemu-kvr
https://github.com/sponsors/kholia			

https://github.com/sponsors/kholia

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The marcell@marcell-B85M-DS3H: ~/OSX/Test_ready/OSX-KVM/...

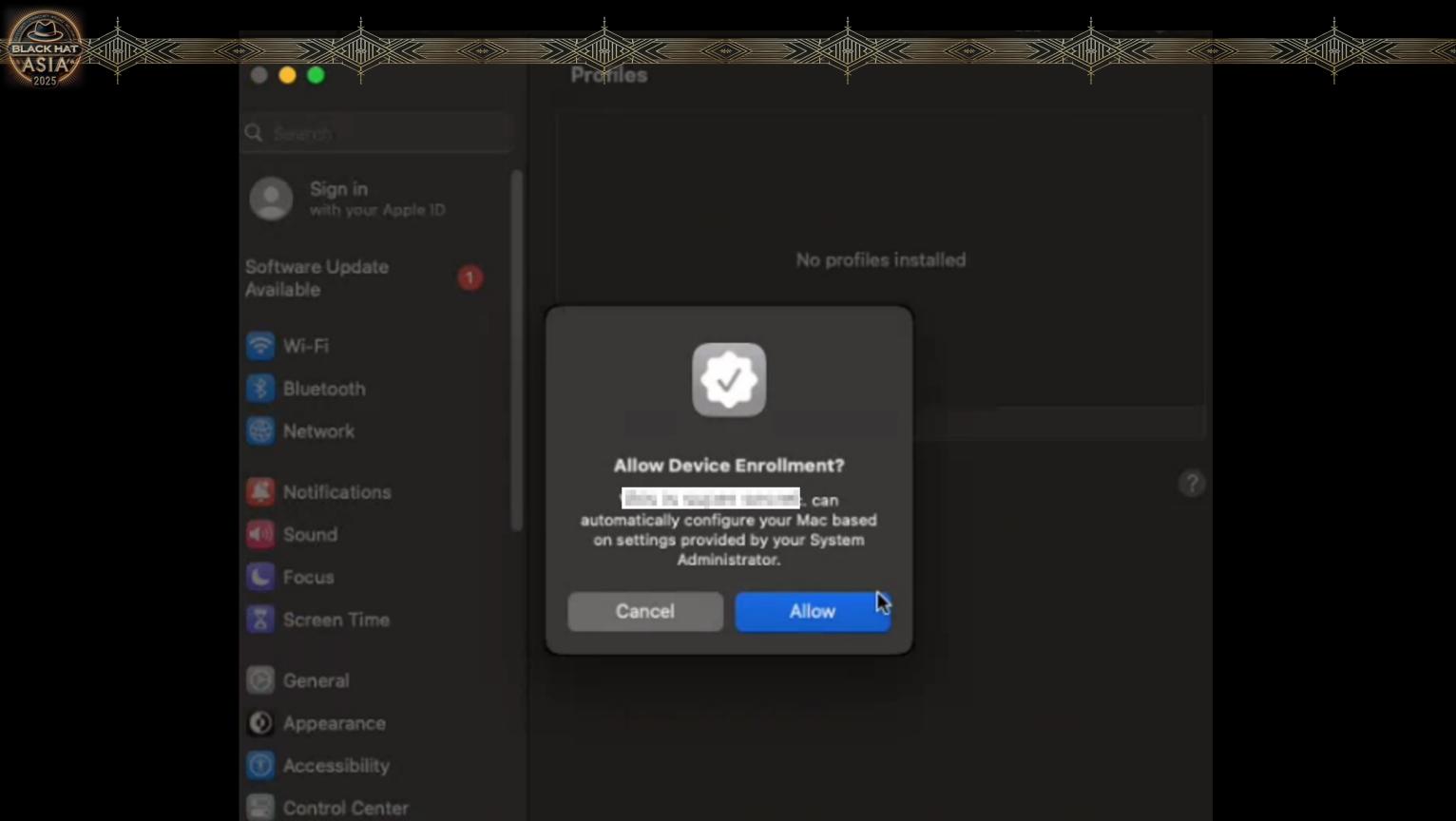
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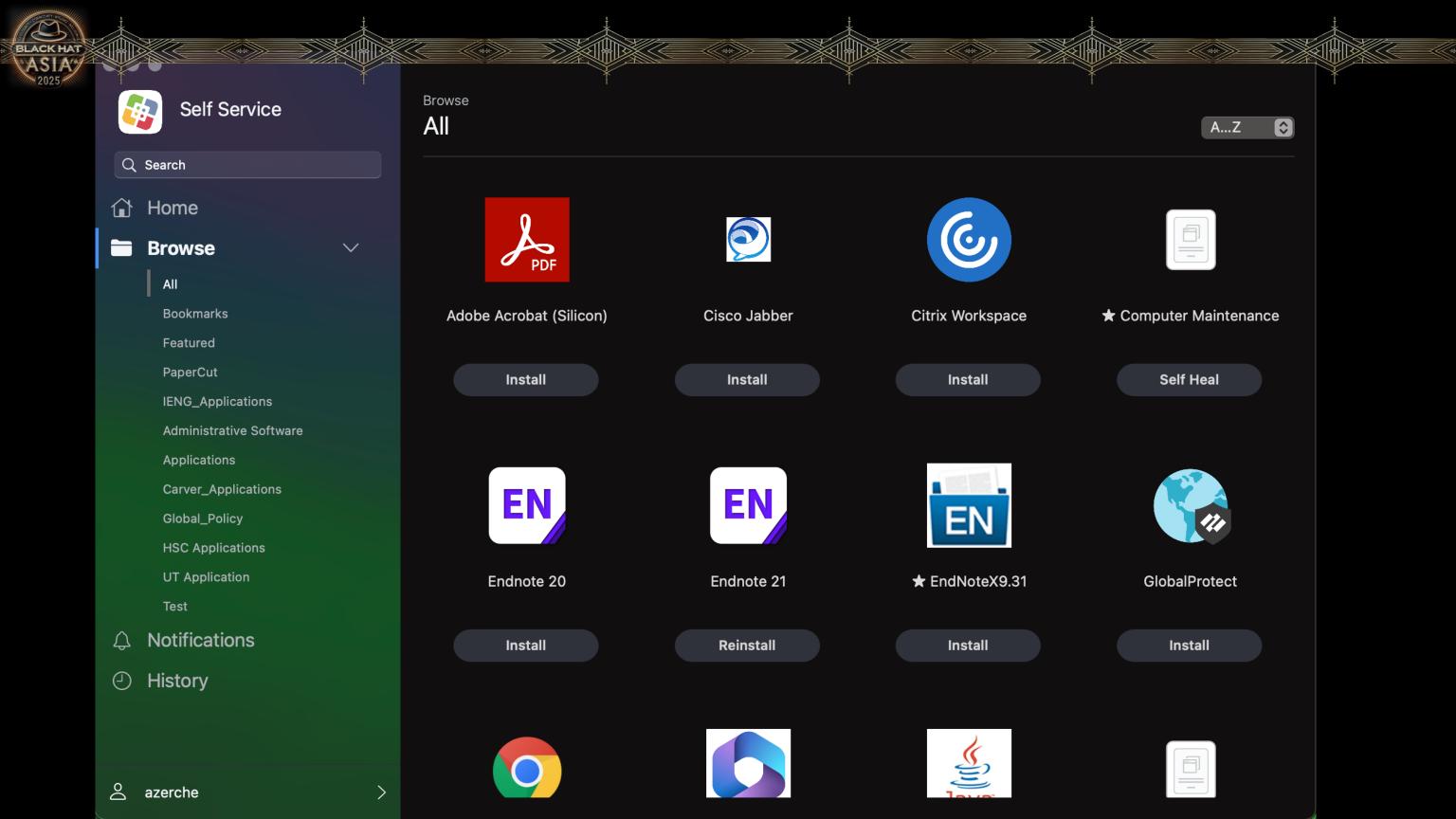
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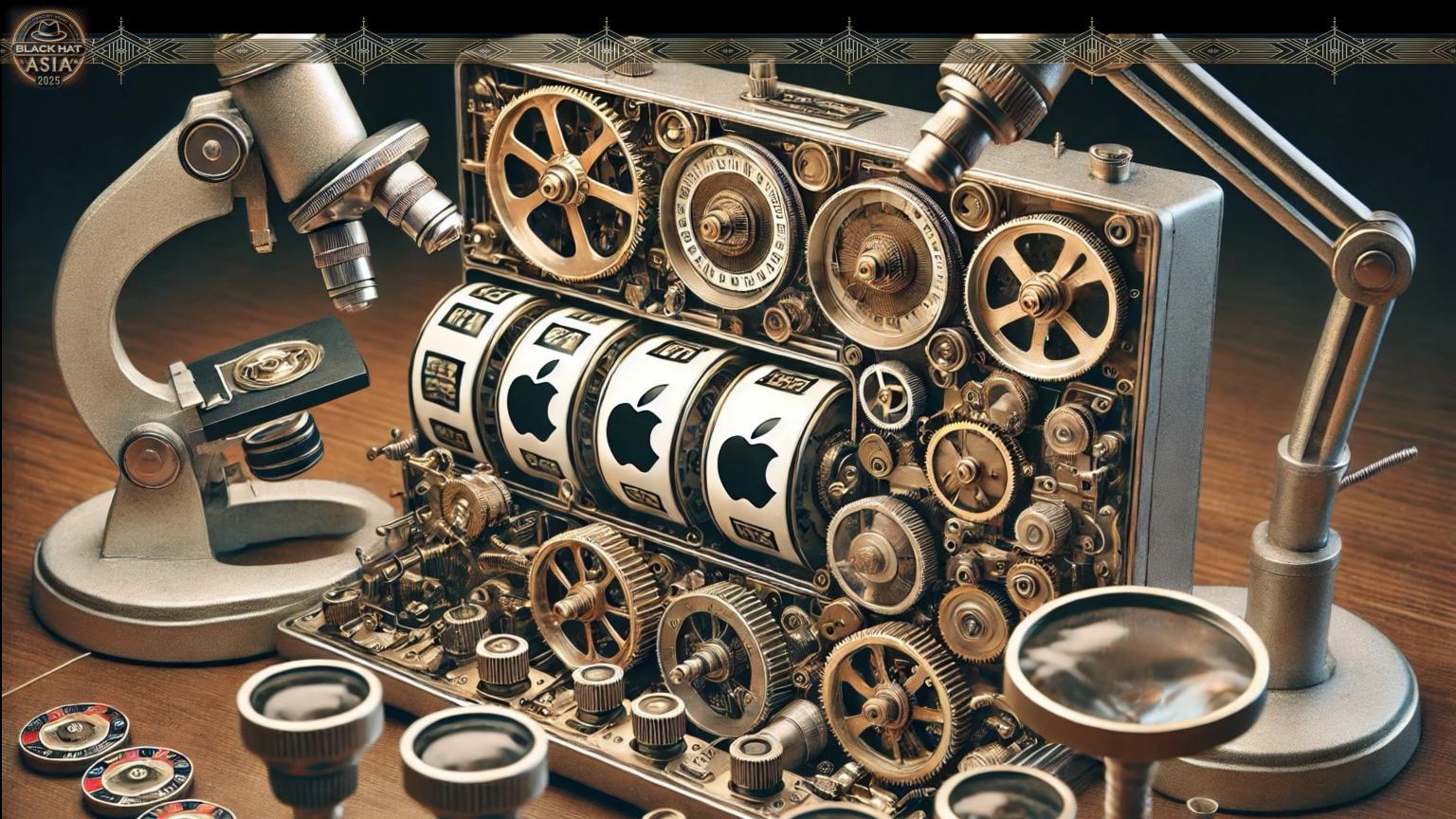
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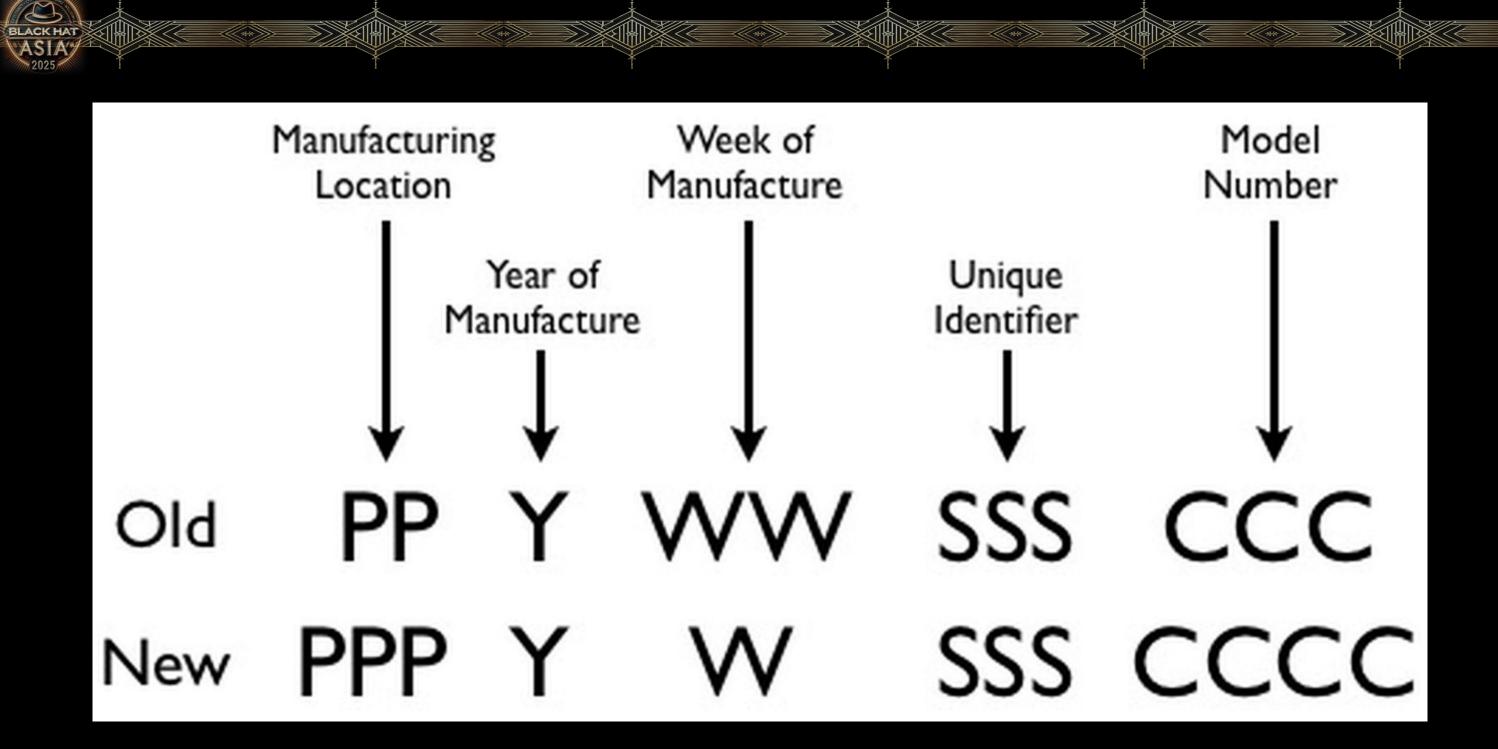
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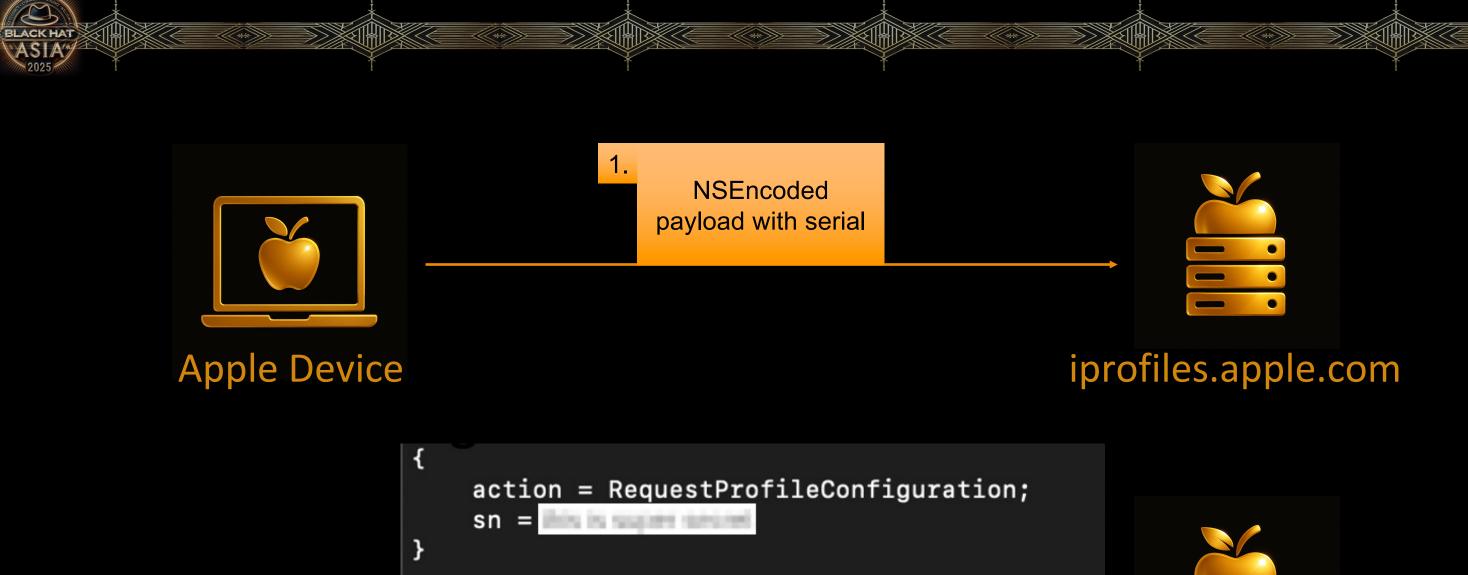


server

iprofiles.apple.com

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Company's MDM server





2.

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JSON disct with company info

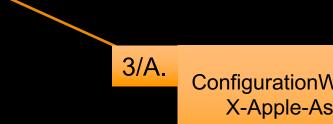
AllowPairing = 0;AutoAdvanceSetup = 0;AwaitDeviceConfigured = 1; ConfigurationURL = "http://www.com/cloudenroll"; IsMDMUnremovable = 1; IsMandatory = 1; IsSupervised = 1; OrganizationAddress = the second end e, n/a, London, W2 6tt"; OrganizationAddressLine1 = " e"; OrganizationAddressLine2 = $\frac{n}{a}$; OrganizationCity = London; OrganizationCountry = GBR; OrganizationEmail = "The large set hits its suggerer service plots its suggerer serviced 42; OrganizationMagic = this is support this is support another a OrganizationName = " OrganizationPhone = ____; OrganizationSupportPhone = " OrganizationZipCode = "W2 6tt"; SkipSetup = Payment, Privacy, AppleID, TOS, iCloudDiagnostics, Restore, Registration, ScreenTime, Appearance, Siri, TermsOfAddress, Accessibility, Diagnostics, DisplayTone, iCloudStorage, Biometric);

iprofiles.apple.com

Company's MDM server







ConfigurationWebURL: X-Apple-Aspen-Deviceinfo

iprofiles.apple.com

GET /enrollment-customization-view?prestageId=1&enrollmentCustomizationId=1& prestageType=313 HTTP/2

Host: I ud.com

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 Sec-Fetch-Site: none

Sec-Fetch-Dest: document

Apple Device

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Cache-Control: no-cache, no-store, must-revalidate

X-Apple-Aspen-Deviceinfo:

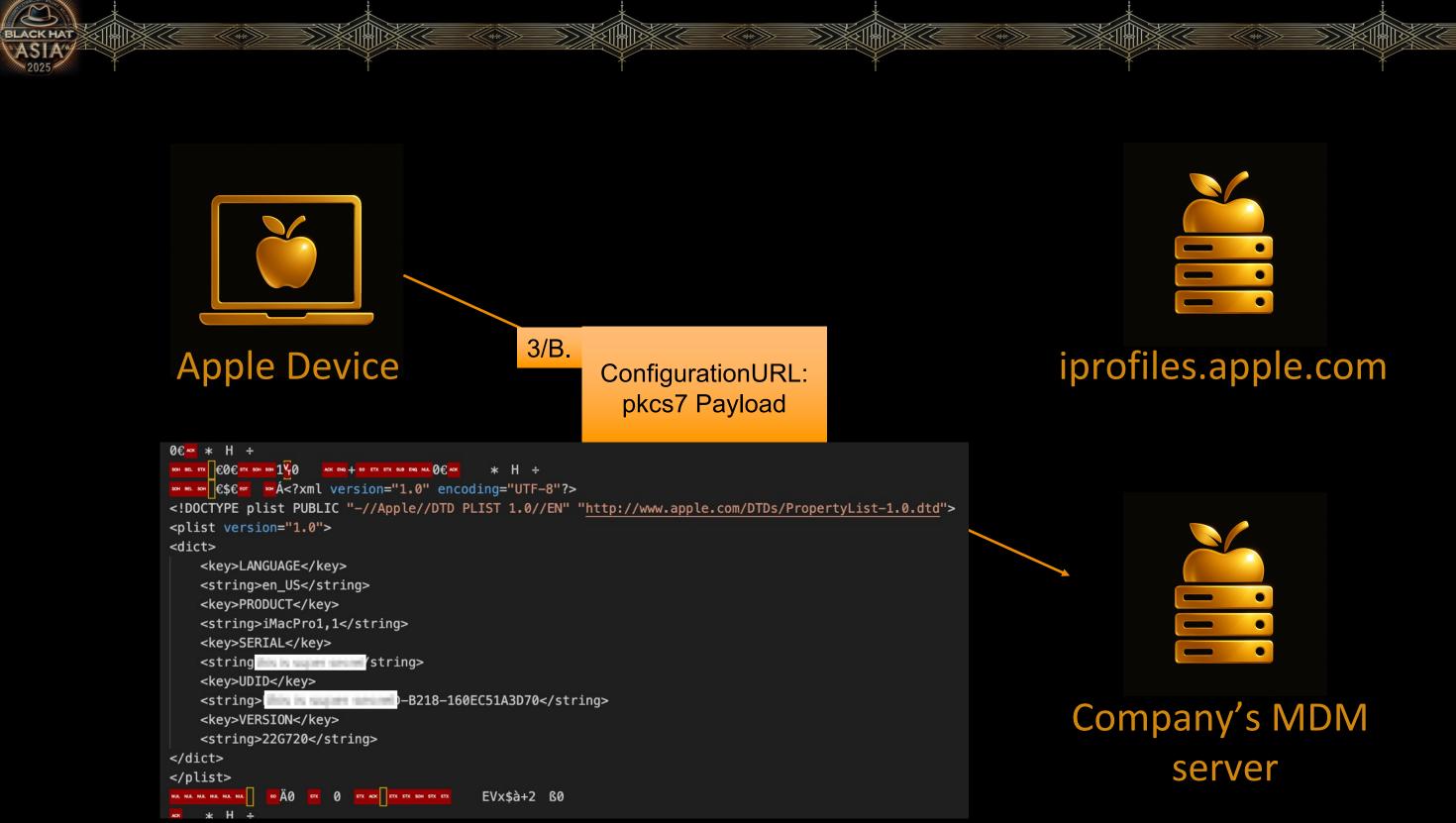
MIAGCSqGSIb3DQEHAqCAMIACAQExCzAJBgUrDgMCGgUAMIAGCSqGSIb3DQEHAaCAJIAEggHBPD94bWwgdmV yc2lvbj0iMS4wIiBlbmNvZGluZz0iVVRGLTgiPz4KPCFET0NUWVBFIHBsaXN0IFBVQkxJQyAiLS8vQXBwbG UvL0RURCBQTElTVCAxLjAvL0V0IiAiaHR0cDovL3d3dy5hcHBsZS5jb20vRFREcy9Qcm9wZXJ0eUxpc3QtM S4wLmR0ZCI+CjxwbGlzdCB2ZXJzaW9uPSIxLjAiPgo8ZGljdD4KCTxrZXk+TEF0R1VBR0U8L2tleT4KCTxz dHJpbmc+ZW5fVVM8L3N0cmluZz4KCTxrZXk+UFJPRFVDVDwva2V5PgoJPHN0cmluZz5pTWFjUHJvMSwxPC9 zdHJpbmc+Cgk8a2V5PlNFUklBTDwva2V5PgoJPHN0cmluZz5DMDJDWDZTNU1ENlQ8L3N0cmluZz4KCTxrZX k+VUR1RDwva2V5Pao1PHN0cm1u7z5G0D1F0zYxNC04RUYzLTUz000t0iTx0C0xNiRF0zUx0TNFNz48L3N0c





Company's MDM server





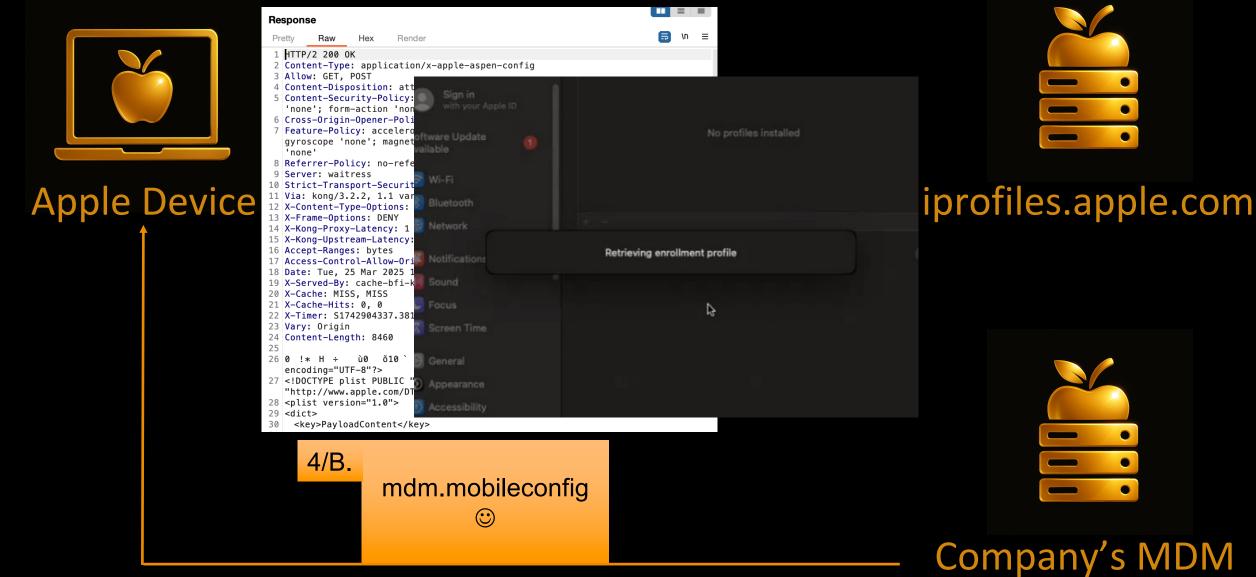
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	No account? Create one! Can't access your account?	Sign in it Sign in vith your Apple ID it			
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any's MDM server



es.apple.com





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server



```
**
                                    **
           var_{60} = arg0;
           rax = sub_100002450();
           rbx = rax;
           if (os_log_type_enabled(rax, 0x2) != 0x0) {
                   sub_100015a6a(rbx);
           if (*(int32 t *)0x100028790 != 0x0) {
                   sub_100012d1c(0x2, "CheckProfilesFetchRateLimit", rdx, rcx, r8, r9, var_60);
           r13 = [NSDictionary dictionaryWithContentsOfFile:@"/var/db/ConfigurationProfiles/Settings/.profilesDEPTimerCheck"];
           rax = sub_100002450();
           rbx = rax:
           if (os_log_type_enabled(rax, 0x2) != 0x0) {
                   sub_1000159e8(r13, rbx);
           rdx = @"/var/db/ConfigurationProfiles/Settings/.profilesDEPTimerCheck";
           if (*(int32_t *)0x100028790 != 0x0) {
                   rdx = [[r13 description] UTF8String];
                   sub_100012d1c(0x2, "CheckProfilesFetchRateLimit profilesTimeCheckDict initial dict = \n%s", rdx, rcx, r8, r9
           if ([r13 count] == 0x0) goto loc_100005ab7;
        loc_10000583b:
           rdx = var_{60};
           rax = [r13 objectForKeyedSubscript:rdx];
           r12 = rax;
           rbx = [rax count];
           rax = sub_100002450();
           r14 = rax;
           if (os_log_type_enabled(rax, 0x2) != 0x0) {
                   sub_10001598e(rbx);
           if (*(int32_t *)0x100028790 != 0x0) {
                   rdx = rbx;
                   sub_100012d1c(0x2, "CheckProfilesFetchRateLimit dateCount = %d", rdx, rcx, r8, r9, var_60);
           if (rbx < 0xa) goto loc_100005ab7;
```

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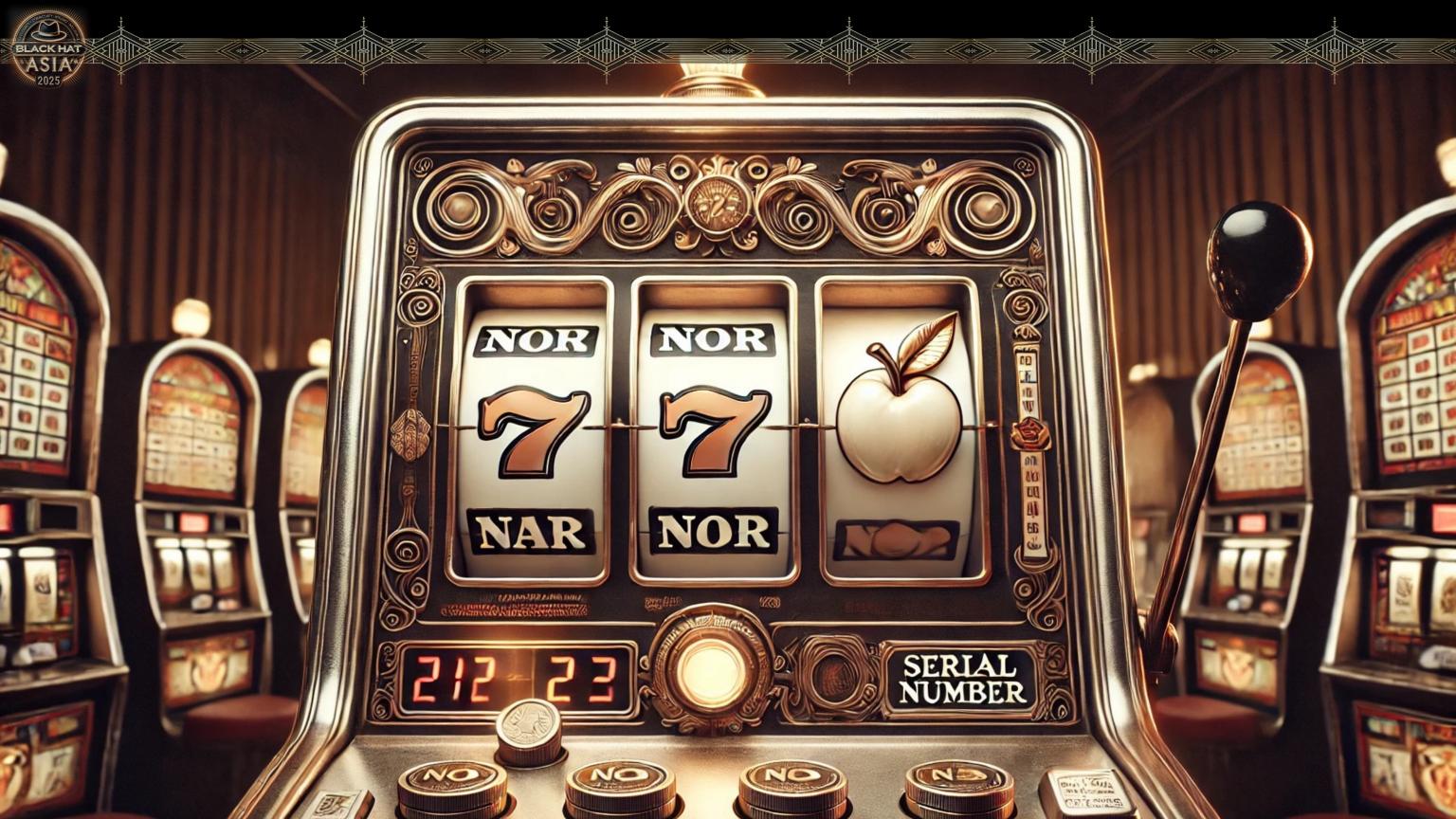
```
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                                         ASIA/
                  var_60 = arg0;
 2025
                  rax = sub_100002450();
                  rbx = rax;
                  if (os_log_type_enabled(rax, 0x2) != 0x0) {
                         sub_100015a6a(rbx);
                  if (*(int32_t *)0x100028790 != 0x0) {
                         sub_100012d1c(0x2, "CheckProfilesFetchRateLimit", rdx, rcx, r8, r9, var_60);
                  r13 = [NSDictionary di
                                                                                          tings/.profilesDEPTimerCheck"];
                  rax = sub_100002450();
                  rbx = rax;
                  if (os_log_type_enable
                         sub_1000159e8
                  rdx = @"/var/db/Config
                                                                 KEEP
                  if (*(int32_t *)0x1000
                                                                  OUT
                         rdx = [[r13 de
                         sub_100012d1c(
                  if ([r13 count] == 0x0
               loc_10000583b:
                                                               OR ENTER
                  rdx = var_{60};
                  rax = [r13 objectForKe
                                                                I'M A SIGN,
                  r12 = rax;
                                                                NOT A COP
                  rbx = [rax count];
                  rax = sub_100002450();
                  r14 = rax;
                  if (os_log_type_enable
                         sub_10001598e
                  if (*(int32_t *)0x100028790 != 0x0) {
                         rdx = rbx;
                         sub_100012d1c(0x2, "CheckProfilesFetchRateLimit dateCount = %d", rdx, rcx, r8, r9, var_60);
                  if (rbx < 0xa) goto loc_100005ab7;</pre>
```

$l dict = \langle n \approx s'', rdx, rcx, r8, r9,$



os.system('''sed -i '' "s/2024/2023/g" /var/db/ConfigurationProfiles/Settings/.profilesDEPTimerCheck''')





AllowPairing = 0;AutoAdvanceSetup = 0;AwaitDeviceConfigured = 1; ConfigurationURL = "http com/cloudenroll"; IsMDMUnremovable = 1; IsMandatory = 1;IsSupervised = 1; OrganizationAddress = e, n/a, London, W2 6tt"; OrganizationAddressLine1 = " OrganizationAddressLine2 = "n/a"; OrganizationCity = London; OrganizationCountry = GBR; OrganizationEmail = " OrganizationMagic = 42; IN IN NUMBER OF STREET OrganizationName = Ш BON IN NUMBER and subscreet \$ OrganizationPhone = OrganizationSupportPhone = " OrganizationZipCode = "W2 6tt"; SkipSetup = Payment, Privacy, AppleID, TOS, iCloudDiagnostics, Restore, Registration, ScreenTime, Appearance, Siri, TermsOfAddress, Accessibility, Diagnostics, DisplayTone, iCloudStorage, Biometric);

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Welcome

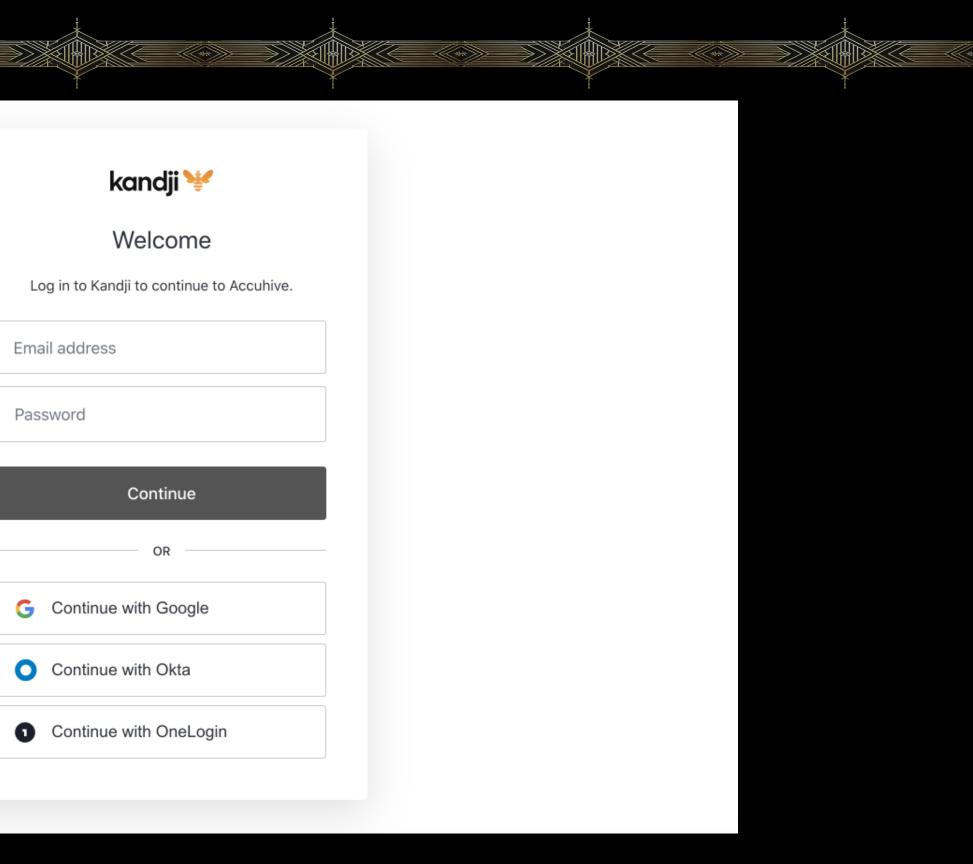
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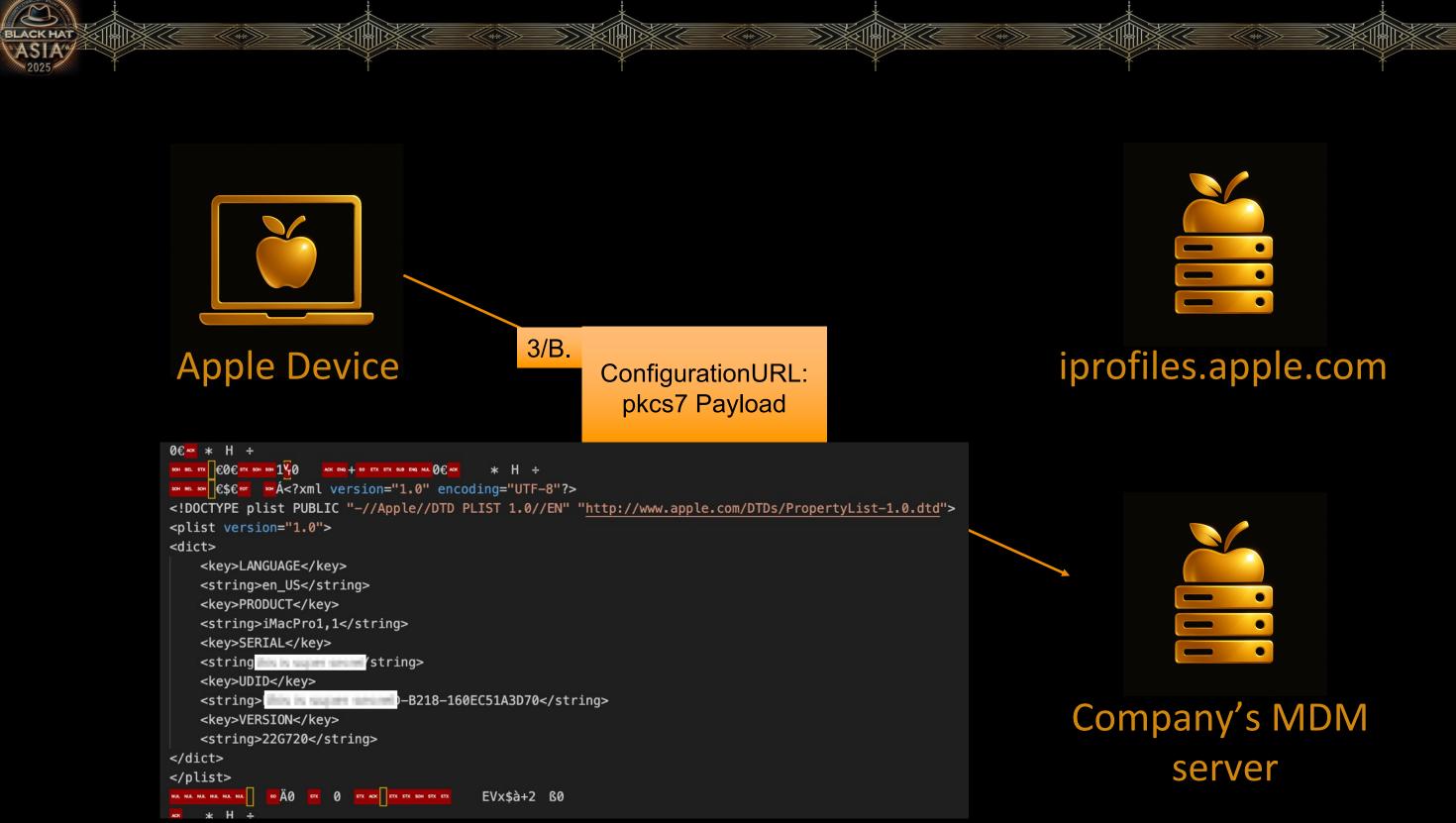
Email address

BLACK HAT ASIA 2025

Password

	Continue
	OR
G	Continue with Google
0	Continue with Okta
0	Continue with OneLogin





```
marcellmolnar@FORM3-MARCELLMOLNAR ~ % cat /var/db/ConfigurationProfiles/Settings/.cloudConfigRecordFound
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
        <key>CloudConfigProfile</key>
        <dict>
                <key>AllowPairing</key>
                <false/>
                <key>AnchorCertificates</key>
                <array/>
                <key>AutoAdvanceSetup</key>
                <false/>
                <key>AwaitDeviceConfigured</key>
                <true/>
                <key>ConfigurationURL</kev>
                                                     :loudenroll</string>
                <string>https://
                <key>IsMDMUnremovable</key>
                <integer>1</integer>
                <key>IsMandatory</key>
                <true/>
                <key>IsMultiUser</key>
                <false/>
                <key>IsSupervised</key>
                <true/>
```

**

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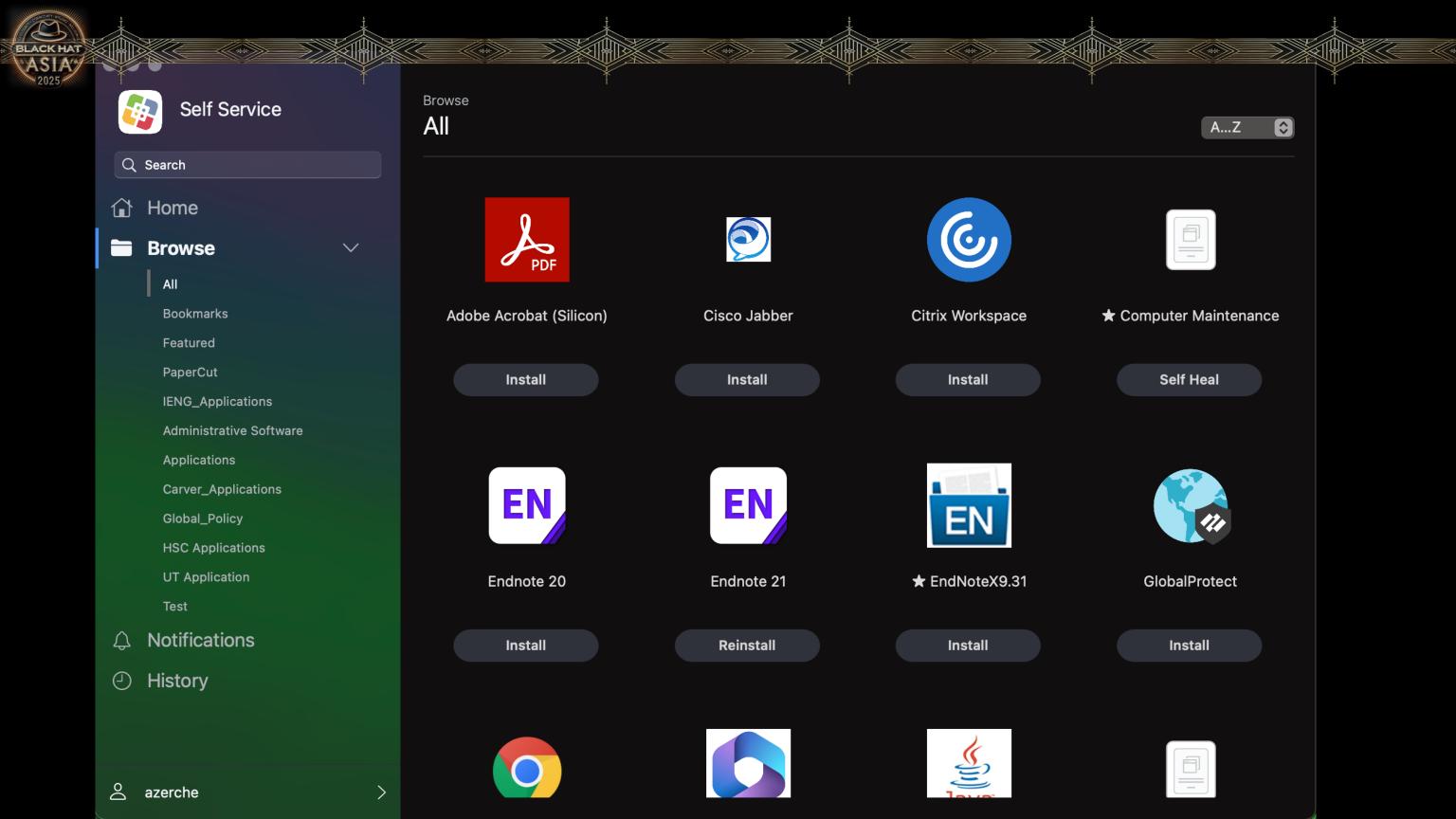


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This Mac is supervised and managed by GK Tatooine Base.

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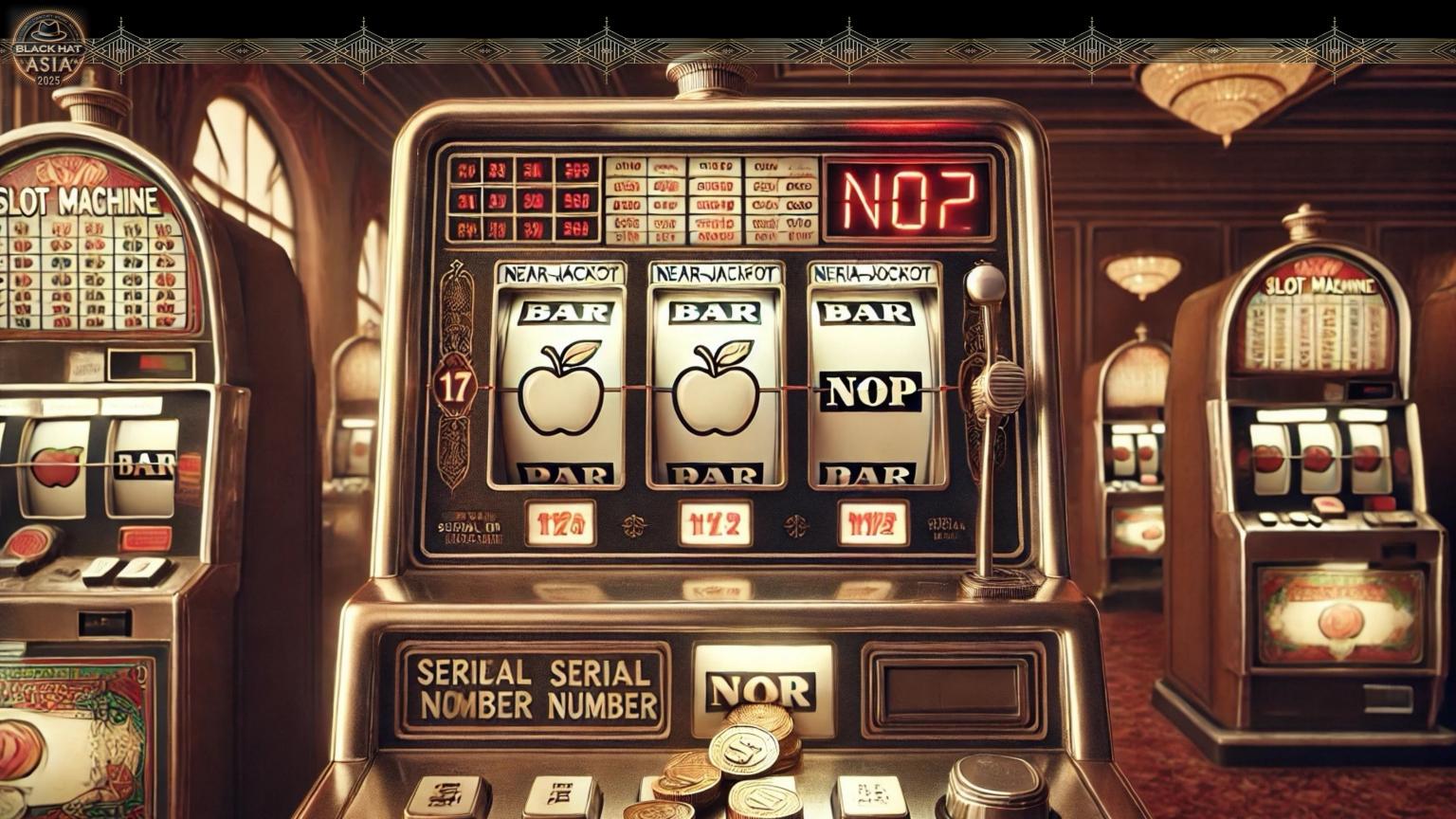






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<ns2:efipassword></ns2:efipassword>		
<ns2:efimode></ns2:efimode>		
none		
<ns2:rebootsettings></ns2:rebootsettings>		
<ns2:nousernoreboot></ns2:nousernoreboot>		
false		
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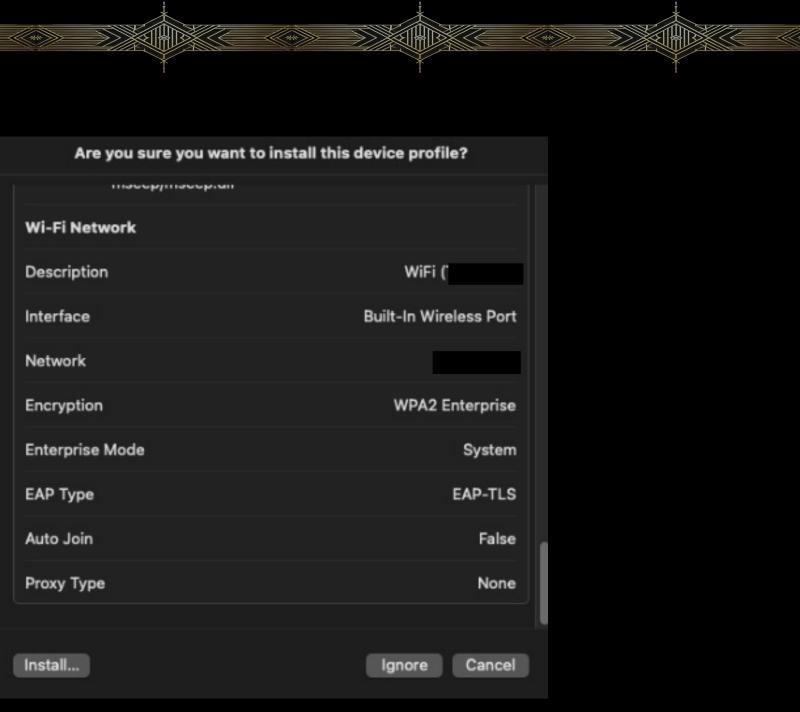
Are you sure you want to install this device profile?

[(lldb) po \$rdi AutoJoin = 1; CaptiveBypass = 0; EncryptionType = WPA; "HIDDEN_NETWORK" = 0; Interface = BuiltInWireless; Password = Happ PayloadDescription = ""; PayloadDisplayName = "WiFi PayloadEnabled = 1; PayloadIdentifier = "4E82583B-3990-453E-A9A1 PayloadOrganization = " PayloadType = "com.apple.wifi.managed"; PayloadUUID = "4E82583B-3990-4531 PayloadVersion = 1; ProxyType = None; "SSID_STR" = "OA SetupModes = ();

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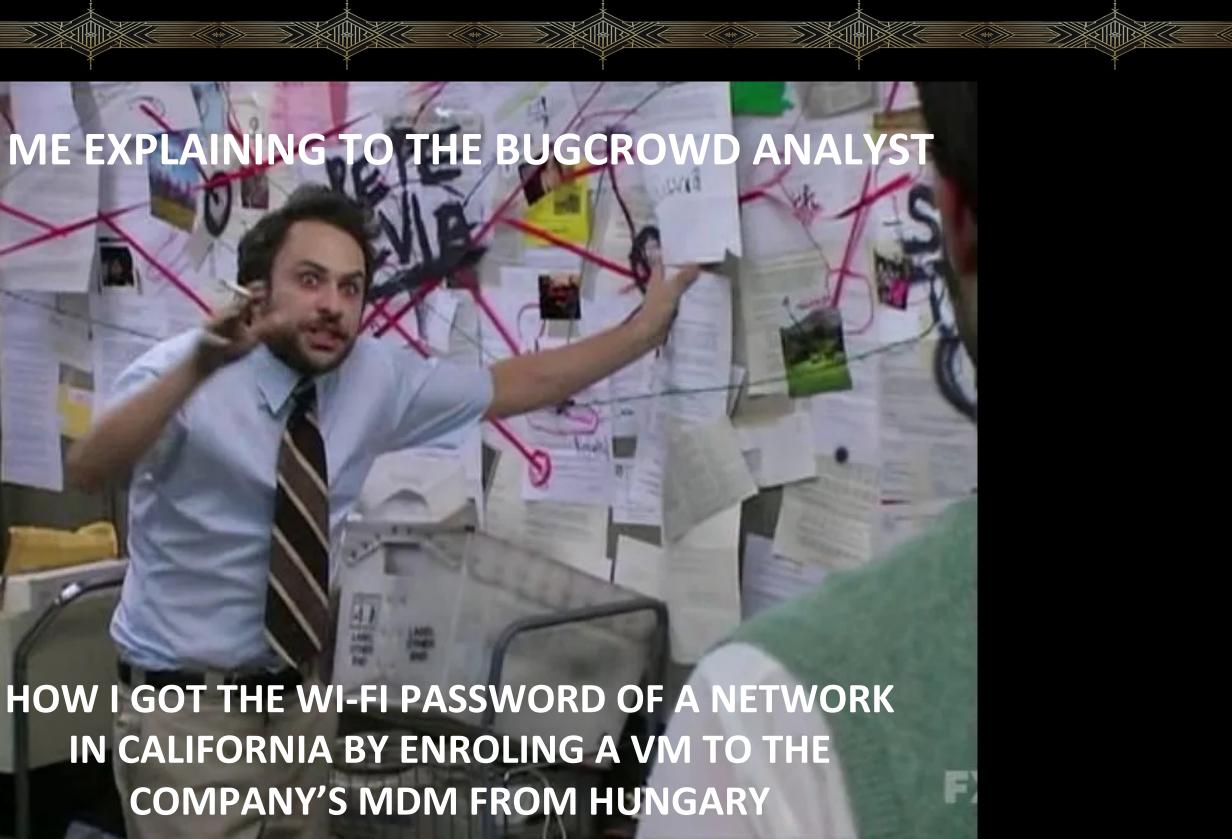
macepiniacepidi	
Wi-Fi Network	
Description	WiFi (
Interface	Built-In Wireles
Network	
Encryption	WPA2 Ente
Enterprise Mode	s
EAP Type	EA
Auto Join	
Proxy Type	
Install	Ignore C





ME EXPLAINING TO THE BUGCROWD ANALYST

HOW I GOT THE WI-FI PASSWORD OF A NETWORK IN CALIFORNIA BY ENROLING A VM TO THE **COMPANY'S MDM FROM HUNGARY**



Respons	se				
Pretty	Raw	Hex	Render	,n ≡	
2	- Teaw		<pre># Send alert to Slack webhook to #ent-i channel</pre>		<mark>#!/bin</mark> /sh # Created
3			<pre>serial_number=\$(system_profiler SPHardw awk '/Serial Number/ {print \$4}')</pre>	areDataType	after installation, and uses our /Applications/Falcon.app/Contents/
4			<pre>curl -H 'Content-type: application/jsor "{\"text\": \"Jamf Device Enrolment Com</pre>		<pre>l license 356 </pre>
			<pre>\${serial_number} - \${loggedinuser}\"}" https://hooks.slack.com/services/T0;</pre>	_	Roaming Client/"
5			# Run recon to send inventory back to J	amf	DATA=' xml version="1.0" encodi<br plist PUBLIC "-//Apple</td
6 7			sudo jamf recon	aiiii	1.0//EN" "http://www.apple.com/DTDs/Property
9 0			# Close the message about Base Apps bei osascript -e 'tell application "jamfHel	-	<plist version="1.0"> <dict></dict></plist>
1			sleep 3		<key>APIFingerprint<:/kev> <string:< td=""></string:<></key>
					ng> <key>APIOrganizationID</key>
					<string> <key>APIUserID</key></string>
					<string: <key>InstallMenubar</key></string:
					<true></true>
					 '
					echo "\$DATA" > "/Library/Applicatio

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Roaming Client/OrgInfo.plist"

</ns2:contents>



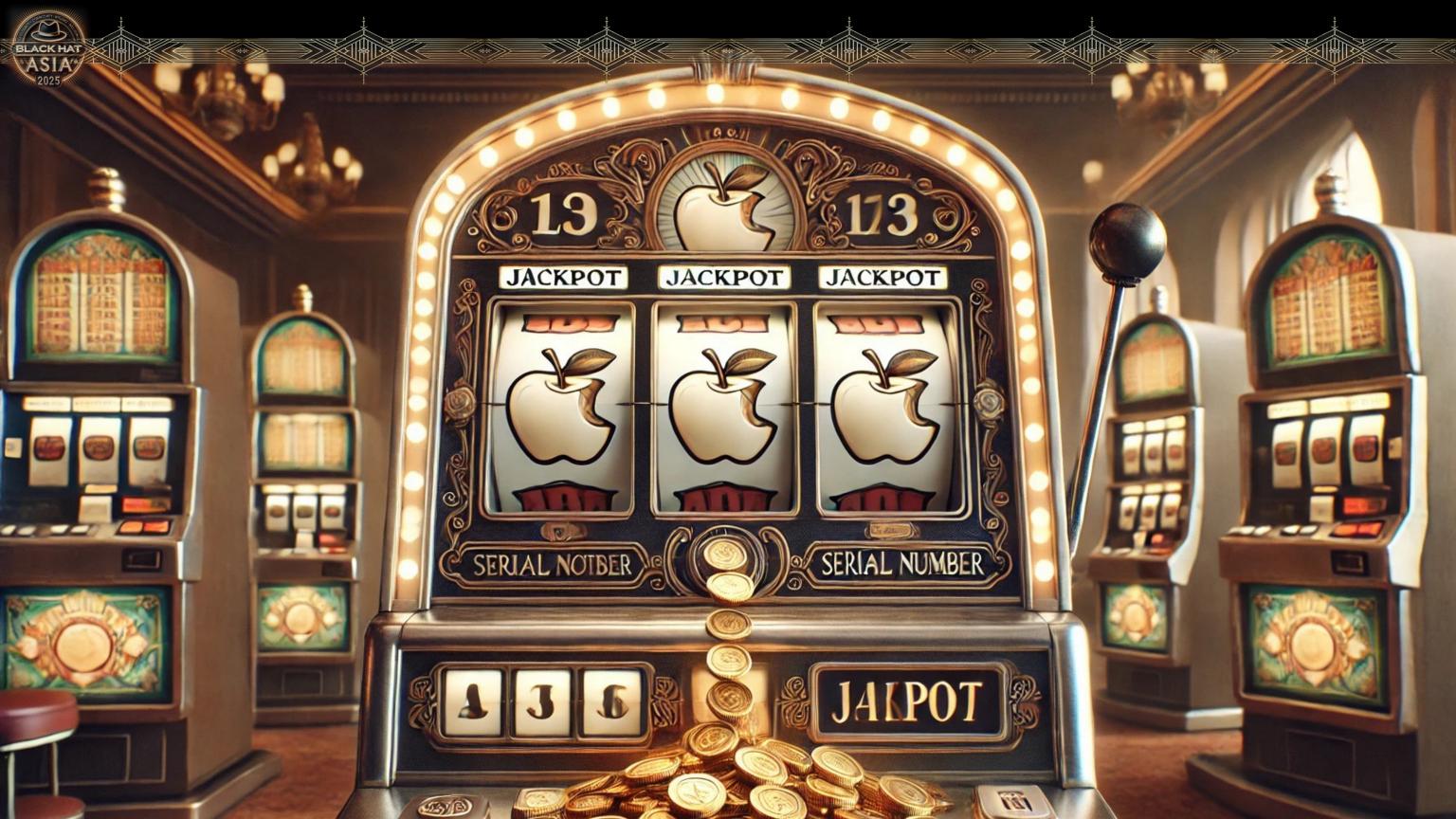


yList-1.0.dtd">

ling="UTF-8"?> Le//DTD PLIST

his activates Falcon r license key <u>s/Resources/fa</u>lconct

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дгер	-nrba	i "API	Usern	ame a	and Pa	issword"	OSX/Test_	_ready_l	ldb/osx-ĸ	VM/ -A :	10				
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nac_h	dd_ng.	img-59	20942-	13370	630759	-userna	me="servic	e_api_							
nac_h	dd_ng.	img-59	20943-	13370	630790	-passwo	rd="								
hac_h	dd_ng.	img-59	20944-	13370	530828	-url="h	ttps://								
hac_h	dd_ng.	img-59	20945-	13370	630862	-logged	InUser=\$(scutil	<<< "show	State:	/Users/Con	soleUser"	awk	'/Name :/	/ && !
hac_h	dd_ng.	img-59	20946-	13370	530972	-echo \$	loggedInUs	er							
nac_h	dd_ng.	img-59	20947-	13370	530991										
nac_h	dd_ng.	img-59	20948-	13370	530992	-#Varia	ble declar	ations							
nac_h	dd_ng.	img-59	20949-	13370	531015	-bearer	Token=""								
lac_h	dd_ng.	img-59	20950-	1337(631030	-tokenE	xpirationE	boch="0							
nac_h	dd_ng.	img-59	20951-	13370	531055	-aduser	='								

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/loginwindow/ { print \$3 }')

aload Authorization	In all Jamf Pro user acounts urServer.jamfcloud.com/api/user Jamf Pro user acounts. Zation Bearer Token st is using an authorization helper from collection Jamf Pro API (v hippet		v complete documentation →	
2hea	→ Blueprints adez → Device Information → Notes → GET Get All Device Notes → POST Create Device Note ••••		Device Inf	formation
Intune device	es and apps API over	® Ø :		
Article • 11/07/2024 • 11 contributors In this article Why integrate with Intune? API reference Related content Microsoft Intune helps enterprise Microsoft Graph to manage device	es manage devices and apps within an organization. Ye ces, apps, and even configure Intune while using your the Intune API to manage client tenants. > PATCH Update Device DEL Delete Device GET TEST Users	⊘ Feedback You can use the Intune API in		
re s	reload s ssion Jamf Pro user aco This reques tus tus tus tus tus tus tus tus tus tu	Interview Params Authorization Headers (I) Body Series Settings Return all Jamf Pro user acounts Intips://yourServer.jamfcloud.com/Japi/user Return all Jamf Pro user acounts. Authorization Bearer Token This request is using an authorization helper from collection Jamf Pro API { Jamf Pro user aco. Code Snippet Cutlet > Interview Notes Interview > Interview > Interview > Interview > Interview > Interview > Intig > Intig > Intig > Intig > Intig In this article Why integrate with Intune? API reference Related content Microsoft Intune helps enterprises manage devices and apps within an organization. Y Microsoft Graph to manage devices, apps, and even configure Intune while using your If you're an ISV, you can also use the Intune API to manage client tenants. Parcel Update Device oet TEST Users <td>recard Return all Jamf Pro user acounts verified recard Return all Jamf Pro user acounts. recard is using an authorization helper from collection Jamf Pro API (v1110) code Snippet Code Snippet Code Snippet code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code</td> <td>and the server is a subject to be server to be server is a subject to be server is a</td>	recard Return all Jamf Pro user acounts verified recard Return all Jamf Pro user acounts. recard is using an authorization helper from collection Jamf Pro API (v1110) code Snippet Code Snippet Code Snippet code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code Snippet is code	and the server is a subject to be server to be server is a subject to be server is a







- Check for legacy MDM endpoints, naming conventions may vary between MDM solutions
- Be mindful of any creds you push via MDM, they can be recovered in one way or another
- Use per machine random generated passwords when pushing admin accounts
- Put SSO on self service separately, this is an option on most MDM solutions
- Do a security review of all items in self service, to avoid information leakage
- Do not put API credentials in shell scripts you push to the machines
- If you absolutely must, triple check credential privileges