

Vejledning: Azure app Integration

TDC ERHVERV

SLETVEJ 30, 8310 TRANBJERG



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Introduktion

Denne vejledning guider dig gennem processen med at oprette en app-registrering og installere Integrationsappen i Azure. Den omfatter trin som tjek af dit Azure-abonnement, oprettelse af en ressourcegruppe og app-registrering, og installation af Integrationsappen. Derudover indeholder den en valgfri sikkerhedsgennemgang af appen. Vejledningen giver klare trin og anvisninger, herunder oplysninger om nødvendige IDs og nøgler. Efter installationen kan du aktivere forskellige operationer i appen baseret på JSON-indhold, f.eks. selvtest, inspektion og styring af Teams-telefoni. Det er vigtigt at følge instruktionerne om ikke at ændre i Powershell-koden og at notere vigtige oplysninger som appnøgler og URL'er. Denne guide hjælper dig med at opsætte Integrationsappen korrekt og bruge dens funktioner til at forbedre din forretningskommunikation med TDC Erhverv **Selvbetjening**.



1.0 Forbered Tenant

Det forudsættes, at du har fulgt denne vejledning: <u>https://tdc.dk/implementeringsguide-teams</u>. Dette sikrer, at din Azure Tenant er konfigureret til telefoni, tilsluttet en Supertrunk og at Supertrunken er tilsluttet en Broadworks-trunk.

2.0 Oprettelse af en App-registrering for Graph-adgang og integration med Selvbetjening

Dette er beskrevet i denne vejledning her: <u>App-registrering for Graph-adgang</u> – Husk at vende tilbage til denne vejledning, når du har gennemført trinene for App-registrering.

3.0 Oprettelse af en App-registrering for Integrationsappen og Installation af Integrationsappen

Log ind på Azure Tenanten på <u>https://portal.azure.com/</u> ved hjælp af en konto med Billing Administratorrettigheder. Hvis du ikke er Billing Administrator, vil nogle af trinnene nedenfor ikke fungere for dig.

Trin 3.1: Tjek din Azure-abonnement

Før vi begynder, skal vi sikre os, at din Azure Tenant har et aktivt abonnement. Dette er nødvendigt, fordi Integrationsappen bruger cloud-lager og CPU-cykler, når den aktiveres. Azure skal kunne opkræve disse omkostninger, og det kræver et abonnement.

Hvis søgningen beskrevet nedenfor viser en tom liste over abonnementer, betyder det enten, at din lejer endnu ikke har et abonnement, eller at din nuværende bruger, ikke har tilladelse til at bruge nogen af abonnementerne, som din organisation har oprettet. Hvis du ved, at abonnementet er der, og du bare mangler adgang, skal du kontakte abonnement ejeren i din organisation og bede dem følge denne vejledning: <u>Få adgang til Azure-abonnementerne</u>



	𝒫 subscriptions	× 🛛 🗗 🖓 🐵 🔗 🖓	adml NUUD
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	Services		
	Subscriptions	🚯 Quotas	
	🐻 Billing subscriptions	🖾 Management groups	
	🔄 Event Grid Subscriptions	Service Bus	
/01	🔄 Event Grid	() Resource groups	
	Marketplace		•
ITV	SharpCloud Subscriptions	UIB UnificationEngine® WhatsApp Business Platform Subscrip	
	Barracuda WAF Add On Subscriptions	Medialine Managed Service in Subscriptions	
	HARP Connect		
	Documentation	See all	
	Subscriptions, licenses, accounts, and tenants for Microsoft's clou	Assign Azure subscriptions to customers - Partner Center	
otic	Subscription considerations and recommendations - Cloud Adopt	Creating Enterprise Azure Dev/Test subscriptions	
ľ	Continue searching in Azure Active Directory		•

Din organisation kan have mere end ét abonnement opført her. Sørg for, at du har besluttet, hvilket abonnement du vil bruge, og dobbelttjek, at det er aktivt. Kig under status og se om der står et grønt flueben med Active.

lome >	A					
SUDSCRIPTIONS	eams for Broadworks (blue4.testontdc.net)				
+ Add 📋 Manage Po	olicies 🗮 View Requests 👁 View	veligible subscriptions				
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Search for any field						
Search for any field	Subscriptions groun man	iny fore un	Status an	Y Hou litter		
Subscription name 1	Subscription ID 1	My role ↑↓	Current cost	Secure Score ↑↓	Parent management group $\uparrow\downarrow$	Status ↑↓



Sørg for at notere abonnementsnavnet, vi vil bruge det senere. I dette eksempel bruger vi et abonnement kaldet **Bluetest4 Azure Plan**.

Trin 3.2: Opret en ressourcegruppe og find Tenant ID

Integrationsappen skal installeres i en ny tom Azure-ressourcegruppe. Søg efter **Resource groups** og gå til den sektion.

e All Services (29) Marketplace (1) Documentation (99+) Resources (0) Resource Groups (0) Azure Active Directory (0) Services Services See al (a) Resource groups Image: Resource Graph queries See al (b) Resource Graph queries See al See al (c) Resource Guards Image: Resource Explorer See al (c) Resource Graph Explorer See al Resource Explorer (c) Resource Graph Explorer See al Resource Explorer (c) Resource Graph Explorer See al See al	adi NUI
Services See al Services See al Services See al Services Graph queries Secource Graph queries Secource Graph queries Resource bridges Resource Explorer Resource Explorer Marketplace	
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2) The Resource Graph Explorer Stroups Marketplace	
Marketplace	
a Resource group	
Documentation See al	
Manage resource groups - Azure portal - Azure Resource Manager How to manage Azure resource groups – Azure CLI 🕫	
Manage resource groups - Azure CLI - Azure Resource Manager 💡 How Azure Resource Manager works - Cloud Adoption Framework	
Organize your Azure resources effectively - Cloud Adoption Fram, New-AzResourceGroup (Az.Resources)	
Use Bicep to deploy resources to subscription - Azure Resource M Deploy resources to subscription - Azure Resource Manager 🕑	
Continue searching in Azure Active Directory	
Searching all subscriptions.	

Du kan allerede have flere ressourcegrupper opført her, ignorer dem og klik på plus-ikonet for at oprette en ny tom ressourcegruppe.

Home >			
Resource groups デー・・・ Nuuday Blue Teams test 4 - Teams for Broadworks (blue4.testontdc.net)			\times
🕂 Create 🎯 Manage view 🗸 🖒 Refresh 🞍 Export to CSV 😚 Open query 🕴 🕅 Assign t	tags		
Filter for any field Subscription equals all $\$ Location equals all \times $^+\!_{ abla}$ Add filter			
Showing 1 to 1 of 1 records.		No grouping \checkmark == List view	\sim
Name 🛧	Subscription \uparrow_{\downarrow}	Location \uparrow_{\downarrow}	
(i) cloud-shell-storage-westeurope	Bluetest4 Azure Plan	West Europe	



Vælg Azure-abonnementet, som vi fandt i afsnittet ovenfor. Dette abonnement vil blive faktureret for lagerplads og CPU-cycles, som Integrationsappen bruger, når den er installeret.

Du kan indtaste et hvilket som helst (lokalt unikt) navn til din nye gruppe. I dette eksempel kalder vi den **TDC_Erhverv_Telephony_Integration**.

Vælg en region, der er geografisk tæt på TDC Erhverv-servere, f.eks. "(Europa) Nord-Europa".

= Microsoft Azure 🔑 S	earch resources, services, and docs (G+/)		2-1	ΨĄ	- - -	~~~
Iome > Resource groups >						
Create a resource gr	oup …					
Basics Tags Review + create						
Resource group - A container that he resources for the solution, or only the allocate resources to resource groups	lds related resources for an Azure solution. The resource group can include all the se resources that you want to manage as a group. You decide how you want to based on what makes the most sense for your organization. Learn more G					
Project details						
Subscription * ①	Bluetest4 Azure Plan	-				
Resource group * 🕕	TDC_Erhverv_Telephony_Integration	←				
Resource details						
Region * 🕕	(Europe) North Europe	-				

Klik på **Review + create** og derefter på næste side på **Create** (Pro tip: Hvis din økonomiafdeling ønsker, at telefoni-relaterede cloud-ressourcer skal grupperes sammen, kan du valgfrit tilføje nogle nyttige tags).

Microsoft Azure	${\cal P}$ -Search resources, services, and docs (G+/)	Σ	R	ø	0	0	8	
ome > Resource groups	>							
Create a resour	ce group							
Validation passed.								
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Resource group	TDC_Erhverv_Telephony_Integration							
Region	North Europe							
Tags								
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Create < Previou	s Next > Download a template for automation							

Husk navnet på din nye tomme ressourcegruppe, vi vil bruge det senere.

Resource groups 🖉 … Nuuday Blue Teams test 4 - Teams for Broadworks (blue4.testontdc.net)		
+ Create 🕲 Manage view \lor 🖒 Refresh 🞍 Export to CSV 😚 Open query 🛛 🕅 Assign	tags	
Filter for any field Subscription equals all Location equals all Transformation equals all		
Showing 1 to 2 of 2 records.		No grouping \checkmark
Name ↑↓	Subscription ↑↓	Location ↑↓
Cloud-shell-storage-westeurope	Bluetest4 Azure Plan	West Europe
(i) TDC_Erhverv_Telephony_Integration	Bluetest4 Azure Plan	North Europe

Vi skal også notere ned *Tenant ID* for dit *globale ID*. For at finde den, søg efter **Microsoft Entra ID** og gå til den sektion.

➢ Microsoft Entra ID	× 도 타 다 ۞ ⑦ 주 adr
All Services (53) Marketplace (3) Documentation Azure Active Directory (0)	on (99+) Resources (0) Resource Groups (0)
Services	See all
Microsoft Entra ID	💑 Microsoft Entra ID risky users
L Microsoft Entra ID Protection	👃 Microsoft Entra ID roles and administrators
A Microsoft Entra ID risk detections	Microsoft Entra ID Security
Microsoft Entra ID risky sign-ins	📩 Microsoft Entra ID risky workload identities
Marketplace	
🚔 Microsoft Entra Digital IAM Managed Service	🖄 Omada Identity Cloud: Enhance Your Microsoft Entra ID Capa
🗳 Omada Identity Cloud: Enhance Your Microsoft Entra ID Capa	
Documentation	
Authorize access with Microsoft Entra ID for Azure SignalR Service	Quickstart - Set up a tenant - Microsoft Entra
Authorize request to Web PubSub resources with Microsoft Entra	Managed identities in Azure SignalR Service
Azure Arc-enabled SQL Server - SQL Server	Secure a hosted ASP.NET Core Blazor WebAssembly app with Mic
Continue searching in Azure Active Directory	
Searching all subscriptions.	R Give feedback

Nu kan du læse Tenant ID. I dette eksempel er det **52d54f0b-90ea-450b-be8b-acd3d8c7a201**. Noter det ned, vi vil bruge det i næste sektion.

0 Overview	≪ + Add ∨ Ø Man	age tenants 🗇 What's new 🕞 Preview features 🔗	Got feedback? 🗡	
Preview features	Azure Active Direct	ctory is now Microsoft Entra ID. Learn more		
X Diagnose and solve problems	Overview Monitor	ing Properties Recommendations Tutorials		
Manage	Search your tenan	it		
Users		x		
Groups	Basic information			
External Identities	Name	Nuuday Blue Teams test 4 - Teams for Broadworks	Users	76
Roles and administrators	Tenant ID	52d54f0b-90ea-450b-be8b-ard3d8r7a201	Groups	12
Administrative units	Tenant ID	52054105-5020-4505-5005-8005-8005-8005-800-10201	Groups	12
Delegated admin partners	Primary domain	blue4.testontdc.net	Applications	2
Enterprise applications	License	Microsoft Entra ID P1	Devices	1
Devices	Alerts			
	Aleits			



På dette tidspunkt bør du have noteret:

- Abonnementsnavn: **Bluetest4 Azure Plan** (vi brugte det i dette afsnit, men vi vil bruge det igen senere).
- Ny tom ressourcegruppe, placeret i Nord-Europa: TDC_Erhverv_Telephony_Integration.
- Din Azure Tenant ID: 52d54f0b-90ea-450b-be8b-acd3d8c7a201.

Trin 3.3: Oprettelse af en App-registrering

Når vi installerer appen, skal den konfigureres med legitimationsoplysninger. Vi leverer disse ved at oprette en ny App-registrering og konfigurere den med de nødvendige tilladelser.

Lad os komme i gang. Søg efter **App registrations** og klik på linket for at gå derhen.

			-							200	NU
All Services (36) Documentation (9	9+) Resou	rces (0)	Resource	Group	s (0)	N	Marketp	place (0)		
Azure Active Directory (0)											
Services										See a	all
III, App registrations		🐯 App	proxy								
App Services		🤣 Func	tion App								
Event Grid Partner Registrations		🚸 Appl	ication gatew	ays							
🌧 App Configuration		🔲 Appl	ication group	s							
Documentation										See a	all
Microsoft Graph Data Connect app registration - Mic	rosoft Graph	Share ga	allery images	across	tenant	s using	g an ap	o regist	tration -	- Az	
Tutorial: Register a Single-page application with the I	Microsoft ide	Configu	re required A	zure A	D Grap	h perm	nissions	for an	app reg	gist	
Create a service principal in Azure.	C ²	Tutorial:	Register a we	eb app	lication	in Azu	ure Act	ve Dire	ectory B	2C	
Implement app registration - Training		Share ga	allery images	using	an app	registr	ation -	Azure	Virtual	Ma	
Continue searching in Azure Active Directory											
Searching all subscriptions.									80	ive feedba	ck

Fra sektionen **App-registration** skal du vælge fanen **All applications**. Hvis du allerede har fuldført guiden "Opsæt AD-integration", skal du allerede have en registrering her kaldet "TDC Erhverv selvbetjening". Hvis du ikke har det, er det okay. Du kan vende tilbage og oprette denne anden registrering senere.



Klik nu på linket øverst med plus-ikonet kaldet **New registration**.

Home > App registrations			×
+ New registration 🕀 Endpoints 🧷 Troubleshooting 🖒 Refresh 🞍 Download 🐻 Preview f	reatures 🛛 🖗 Got feedback?		
Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Librar updates but we will no longer provide feature updates. Applications will need to be upgraded to Microsoft Aut	ry (ADAL) and Azure Active Directory Graph. We will continuu hentication Library (MSAL) and Microsoft Graph. <u>Learn more</u>	e to provide technical	support and security $\qquad imes$
All applications Owned applications Deleted applications			
Display name ↑↓	Application (client) ID	Created on ↑↓	Certificates & secrets
TE TDC Erhverv selvbetjening	a56a5e89-1bbb-4825-acc8-7f07b5d2eaed	11/17/2022	🔮 Current

- Du kan navngive den nye registrering hvad som helst, men i dette eksempel kalder vi den TDC
 Erhverv Telephony Integration. Husk dette navn, vi vil bruge det senere.
- Under Supported account typed skal du vælge Accounts in this organizational directory only (Single tenant).
- Indtast *ikke* nogen værdi i afsnittet **Redirect URI**.

Klik på knappen **Register** nederst.



Nu skal du se oversigtssiden for din nye App-registration. Fra denne side skal du bemærke Application (client) ID. I dette eksempel er det **3068f451-4cfb-4c68-b213-2b39a269e693**. *Gem* det, vi vil bruge det senere.



Klik derefter på afsnittet **Certificates & secrets** i menuen til venstre. Nu bør du se denne side. Klik på plus-ikonet **New client secret**.

Home > App registrations > TDC Erhverv Telephony Integration						
TDC Erhverv Telephony Integration Certificates & secrets 2000 million						
	A Got feedback?					
Soverview						
📣 Quickstart	Credentials enable confidential applications to scheme). For a higher level of assurance, we re-	identify themselves to commend using a certi	the authentication service ficate (instead of a client	when receiving tokens at a web addressable loc secret) as a credential.		
💉 Integration assistant	· • • ·	5				
Manage	Application registration ertificates, secrets	and federated credentia	Is can be found in the tabs	below.		
Branding & properties						
Authentication	Certificates (0) Client secrets (0) Fe	derated credentials ((0)			
📍 Certificates & secrets	A secret string that the application uses to pri	ove its identity when re	equesting a token. Also ca	n be referred to as application password		
Token configuration	research saming duct the application uses to pro-	ine to lacing interne	iquesting a tokeni ruso ca	n be referred to us application passifora.		
 API permissions 	+ New client secret					
Expose an API	Description	Expires	Value 🛈	Secret ID		
App roles	No client secrets have been created for this a	pplication.				
A Owners		-				
Roles and administrators						

Dette er The Secret (hemmeligheden), som vi senere vil give Integrationsappen, så den kan bruge identiteten fra denne App-registrering, når den udfører telefoni-relaterede operationer i din Teamsopstilling.

- Du kan tilføje en beskrivelse, du vil have, men i dette eksempel kalder vi den TDC Erhverv
 Telephony Integration.
- Du kan vælge en udløbsdato, du vil have. Vi anbefaler at vælge det maksimale: 24 måneder på den måde behøver du ikke at konfigurere din app i mindst to år.
- Når du er færdig, skal du klikke på knappen Add nederst nede.

Home > App registrations > TDC E	Erhverv Telephony Integration	Add a client secret	×
📍 TDC Erhverv Tele	phony Integration Certificates & secrets	Description	TDC Erhverv Telephony Integration
₽ Search	« A Got feedback?	Expires	730 days (24 months) V
 Overview Quickstart Integration assistant 	 Credentials enable confidential applications to identify themselves to t scheme). For a higher level of assurance, we recommend using a certifi 		Recommended: 180 days (6 months) 90 days (3 months) 365 days (12 months)
Manage	Application projectation cartificator correte and federated credentials		545 days (18 months)
Branding & properties	 Application registration certificates, secrets and redenated credentials 	\rightarrow	730 days (24 months)
Authentication	Certificates (0) Client secrets (0) Federated credentials (0)		Custom
📍 Certificates & secrets			
Token configuration	A secret string that the application uses to prove its identity when rec		
API permissions	+ New client secret		
Expose an API	Description Expires		
App roles	No client secrets have been created for this application.		
A Owners			
& Roles and administrators			
Manifest			
Support + Troubleshooting		Add Cancel	
Troubleshooting		euneen	



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Home > App registrations > TDC Erhverv Telephony Integration						
🛉 TDC Erhverv Teleph	TDC Erhverv Telephony Integration Certificates & secrets 🛷 … X					
	☆ Got feedback?					
Overview						
📣 Quickstart	Got a second to give us some feedback?	$r \rightarrow$		×		
💉 Integration assistant						
Manage	Credentials enable confidential applications scheme). For a higher level of assurance, we	to identify themselves to recommend using a cert	the authentication service when receiving toke ificate (instead of a client secret) as a credential	ns at a web addressable location (using an HTTPS		
Branding & properties						
Authentication	Application registration certificates, secretary	ets and federated credentia	als can be found in the tabs below.	×		
↑ Certificates & secrets						
Token configuration	Certificates (0) Client secrets (1)	Federated credentials (0)			
 API permissions 	A secret string that the application uses to	prove its identity when re	equesting a token. Also can be referred to as a	oplication password.		
🔷 Expose an API	,,,,,,,, .	, , , , , , , , , , , , , , , , , , , ,				
Kara App roles	New client secret					
A Owners	Description	Expires	Value 🛈	Secret ID		
& Roles and administrators	TDC Erhverv Telephony Integration	9/10/2025	xDn8Q~GpsHX9BnvlgJrhy~s9uuUxY8T 🛛	1889d59e-f5f3-4f4f-aeed-7ab601646035 🗅 🧵		
Manifest						

Du skal også notere udløbsdatoen for din secret. I dette eksempel er det *10. september 2025*. Det er god praksis at indstille en påmindelse for at komme tilbage og opdatere din secret (se dette afsnit) to uger før udløbsdatoen.

	Outlook	Q Search	🕞 Teams call 🕞 📭 🗭 🧳 🖓
	Home View Help		Calendar ∨ ∠ ⁷
	New event 🗸 🖹 Day 🧹	Work week Week Month Split view	🖹 Save 🗑 Discard
89	\checkmark 2025 August \uparrow \downarrow	Today < > 2025, August 25–29 (We	Replace secret for TDC Erhverv Telephony I
쑝	M T W T F S S 31 28 29 30 31 1 2 3	Mon La Tue La 25 26	$\mathcal{C}^{\circ}_{\Theta}$ Invite required attendees
Ø	32 4 5 6 7 8 9 10		(b) 2025-08-26 (c) All day
	33 11 12 13 14 15 16 17 34 18 19 20 21 22 23 24		2025-08-26
	35 25 26 27 28 29 30 31	9	Search for a room or location
	36 1 2 3 4 5 6 7	10	
2	🗄 Add calendar		expire in two weeks. We should replace it now before
•	Go to my booking page	11	Selfservice stops working.
00	✓ My calendars	12	More options
	Calendar Calendar	13	
	Show all		
		14	
		15	

Den nye App-registrering kan ikke gøre meget alene. Nu vil vi give den de tilladelser, den har brug for til at opdatere Teams' telefoniindstillinger. Søg efter afsnittet **Microsoft Entra ID roles and administrators** og gå derhen.

P Microsoft Entra ID roles and administration	× 5 6 0 8
All Services (61) Documentation (99+) R Azure Active Directory (0)	Resources (0) Resource Groups (0) Marketplace (0)
Services	See a
Icrosoft Entra ID	🚨 Microsoft Entra ID Protection
📧 Event Grid	Microsoft Entra ID Security
🛃 Microsoft Entra ID roles and administrators	🕹 Create custom Microsoft Entra ID roles
🖧 Confidential Ledgers	Microsoft Entra Connect
Documentation	See a
Roles you cannot manage in Privileged Identity Management - M	i Assign Azure AD roles to users - Microsoft Entra
ASP.NET Core Blazor WebAssembly with Microsoft Entra ID group	Assign Azure resource roles in Privileged Identity Management
Plan and implement privileged access - Training	Discover Azure resources to manage in PIM - Microsoft Entra
Authorize access with Microsoft Entra ID for Azure SignalR Service	Activate Azure resource roles in PIM - Microsoft Entra
Continue searching in Azure Active Directory	
Searching all subscriptions.	₽ Give feedbac

Søg nu efter rollen kaldet **Teams Communications Administrator**. Klik på navnet på rollen (ikke afkrydsningsfeltet) for at fortsætte.

Home >							
All roles ··· · · · · · · · · · · · · · · · · ·							
🕂 New custom role 📋 Delete custom role 🞍 Download assignments 🖒 Refresh 💀 Preview features 🖗 Got feedback?							
Get just-in-time access to a role when you need it using PIM.	earn more about PIM \rightarrow						
(i) Your Role: Global Administrator							
Administrative roles Administrative roles are used for granting access for privileged actions in Microsoft Entra ID. We recommend using these built-in roles for delegating access to manage broad application configuration permissions without granting access to manage other parts of Microsoft Entra ID not related to application configuration. Learn more. Learn more about Microsoft Entra ID role-based access control							
	filters						
Role ↑↓	Description	Privileged	↑↓ Ass↑↓	Туре			
Teams Communications Administrator	Can manage calling and meetings features within the Microsoft Teams service.		1	Built-in			
Teams Communications Support Engineer	Can troubleshoot communications issues within Teams using advanced tools.		1	Built-in			
Teams Communications Support Specialist	Can troubleshoot communications issues within Teams using basic tools.		0	Built-in			
4							

På denne side kan du allerede have denne rolle tildelt til nogen. I dette eksempel gør vi det ikke. I begge tilfælde skal du klikke på plus-ikonet **Add assignments** øverst for at tilføje en ny tildeling.

\leftrightarrow \rightarrow C \hat{m} portal.azure.com/#	view/Microsoft_AAD_IAM/Role	MenuBlade/~/RoleMembers/obj	ctId/baf37b3a-610e-450	la-9e62-d9o	j1e5e8914b	/roleNam	ne/T 🔁 🔸	< 🖈 🛛 😩
≡ Microsoft Azure 🔎 Searc	ch resources, services, and docs (G	-A)		D. G	I 🖉 🐵	0	R admka	sfre@blue4.testo. BLUE TEAMS TEST 4 - T.
Home > All roles > Teams Communic	ations Administrator							
All roles	tions Administrato	or Assignments						
 X Diagnose and solve problems 	+ Add assignments X F	temove assignments 🛛 🛓 Downlo	d assignments 🛛 🕐 Refre	sh 🗹 Ma	nage in PIM	ା ନ୍ <u>ୟ</u> (Got feedback?	
Manage	You can also assign built-	in roles to groups now. Learn More						
Assignments	E.							
Description	Search							
2.52	Search by name							
Activity	Туре							
👶 Bulk operation results	All							
Troubleshooting + Support	Name	UserName		1	Гуре		Scope	
New support request	No role assignments found							

På denne side skal du ikke bruge tid på at rulle gennem brugerlisten for at finde din nye Appregistrering. Den vil ikke vises der, før vi søger efter den.

	ing of adding inters if you don	t see what you're looking) for.	
Only groups elig	ible for role assignment are dis	played.		
earch ①				
ρ				
All Users	Groups			
	Name	Туре	Details	Î
	Aarav Suarez	User	asuarez@blue4.testontdc.net	
	Abigayle Collier	User	acollier@blue4.testontdc.net	
	Adelaide Carney	User	acarney@blue4.testontdc.net	
	Adolfo Owen	User	aowen@blue4.testontdc.net	
			an au Chlur (testa atda a at	
	Alvaro Snow	User	asnow@blue4.testontdc.net	
	Alvaro Snow Amiya Tyler	User User	atyler@blue4.testontdc.net	

Husk navnet, vi gav den nye registrering ovenfor, og skriv det i søgefeltet. Klik nu på afkrydsningsfeltet for at markere registreringen og klik på **Add** nederst.



Add assi	gnmen	its			
i Try chang	ing or addin	g filters if you don't see wha	t you're looking for.		
Only groups elig	ible for role	assignment are displayed.			
Search (i)	erv Telephon	y Integration		>	<
All Users	Groups	Enterprise applications	Type	Dataile	
V B	TDC Erhv	verv Telephony Integration	Enterprise ap	3068f451-4cfb-4c68-b213-2b39a269e693	
 ■ ■ 	TDC Erhv	verv Telephony Integration	Enterprise ap	3068f451-4cfb-4c68-b213-2b39a269e693	
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 ■ 1 	TDC Erhv	verv Telephony Integration	Enterprise ap	3068f451-4cfb-4c68-b213-2b39a269e693	
	TDC Erhv	verv Telephony Integration	Enterprise ap	3068f451-4cfb-4c68-b213-2b39a269e693	,

App-registreringen vises nu på listen over enheder, der har rollen **Teams Communications Administrator**. Husk, at dette er en meget privilegeret administratorrolle. Giv ikke værdien af Appregistration secret til nogen, heller ikke TDC Erhverv.

Home > All roles > Teams Commu	unications Administrator				
All roles	ications Administrator Assign	nments			\times
X Diagnose and solve problems	≪ + Add assignments × Remove assignment	ents 🞍 Download assignments 🖒 Refresh 🗹	7 Manage in PIM 🖗 Go	ot feedback?	
Manage	• You can also assign built-in roles to groups	now. Learn More 🗹			×
Assignments					
Description	Search				
Activity	Search by name				
👶 Bulk operation results	All				\sim
Troubleshooting + Support	Name	UserName	Туре	Scope	
New support request	TDC Erhverv Telephony Integration	3068f451-4cfb-4c68-b213-2b39a269e693	ServicePrincipal	Directory	

Trin 3.4: Installation af Integrationsappen

Hvis du har fulgt ovenstående sektioner, skal du nu have fem oplysninger klar.

- Abonnementsnavn: Bluetest4 Azure Plan
- Tenant ID: 52d54f0b-90ea-450b-be8b-acd3d8c7a201
- Navn på ny tom ressourcegruppe: TDC_Erhverv_Telephony_Integration
- App-registreringsapplikation (klient) ID: 3068f451-4cfb-4c68-b213-2b39a269e693
- App-registreringsapplikation hemmelighedsværdi: xDn8QGpsHX9BnvlgJrhys9uuUxY8T1A~iMIa8I

I	P Markteplace	× 🛛 🖟 🗘 🎯 Ø	ନ୍ଦି adm NUUD
e	All Services (7) Marketplace (31) Documentat Azure Active Directory (0) Azure Active Directory (0) Azure Active Directory (0) Azure Active Directory (0)	tion (99+) Resources (0) Resource Groups (0)	Î
l	Services		
l	🗳 Marketplace	Cost exports	
l	🛞 Budgets	🚯 Cost Management	
l	Second alerts	💿 Cost Management + Billing	
ы	ຈຼົ່ນ Cost analysis		
l	Marketplace		See all
	🍐 Striim VM Subscription	칰 Labra Cloud Commerce Management Platform	
ſ.	👗 Contoso MPPO SaaS - Seat 1	🖄 Fimple Marketplace Offer	
l	🖄 Dataguise for Azure Marketplace	🖄 SaaS Accelerator	
l	🛎 Contoso Marketplace SaaS Offer-seat	🖄 Contoso MPPO SaaS - Site 1	
l	Documentation		See all
ic	What is the Microsoft commercial marketplace? - Microsoft marke	Private plans in Azure Marketplace - Microsoft marketplace	ď
ŀ		• • • • • • • • • • • • • • • • • • •	
	Continue searching in Azure Active Directory		
l	Searching all subscriptions.		Sive feedback

Søg nu efter Marketplace og klik på linket for at gå til den sektion.





Klik på **TDC Erhverv Telephony Integration** og vælg den nyeste version i rulle-listen.

Klik nu på Opret.



With TDC Erhverv Telephony Integration, you can safely and securely update the company's user setup in Teams Admin Center so that it matches your subscription with TDC Erhverv.



Udfyld felterne med de oplysninger, vi har forberedt ovenfor. Sørg for at vælge Nord-Europa som region, da dette er tæt på TDC Erhverv-servere.

Klik på **Review + create**.

Home > Marketplace > TDC Erhverv Telephony Integration >					
Create TDC Erhvery Telephony Integration					
	, , ,				
Basics Review + create					
Project details					
Select the subscription to manage deployed manage all your resources.	d resources and costs. Use resource groups like folders to organize and				
Subscription * 🕕	Bluetest4 Azure Plan	\sim \leftarrow			
Resource group * ①	TDC_Erhverv_Telephony_Integration	✓ ←			
	Create new				
Instance details					
Region * 🕕	North Europe	\sim \leftarrow			
Tenant ID * ①	52d54f0b-90ea-450b-be8b-acd3d8c7a201	→ ←			
Application ID * ①	3068f451-4cfb-4c68-b213-2b39a269e693	→ ←			
Client secret * ①		→ ←			
Confirm client secret * ()		~			
Previous Next Review	+ create				

Klik derefter på **Create**.

Home > Marketplace > TDC Erhverv Tel	lephony Integration >						
Create TDC Erhverv Tel	Create TDC Erhverv Telephony Integration						
Basics Review + create							
 View automation template 							
Price							
TDC Erhverv Telephony Integration by TDC Erhverv Terms of use Privacy policy							
TERMS							
By clicking "Create", I (a) agree to the legal listed above; and (b) agree that Microsoft r provider(s) of the offering(s) for support, bi third-party offerings. See the Azure Market	terms and privacy statement(s) associated with the Marketplace offering(s) may share my contact, usage and transactional information with the lilling and other transactional activities. Microsoft does not provide rights for place Terms for additional details.						
Name							
Preferred e-mail address	admkasfre@blue4.testontdc.net						
Preferred phone number							
Previous Next Create							

Installationen tager et par minutter.

Ruudayas1682937	330801.td	c-erhverv-te	elephony-integ	-20230911154655	Overview	\$* ··· ×
 ➢ Search « ♣ Overview ♀ Inputs ≆ Outputs ➢ Template 	Delete Depl Depl Depl Depl Constant Const	Cancel TRe Composed of the second of the se	deploy \downarrow Download D progress yas1682937330801.tdc 4 td Azure Plan thverv_Telephony_Integr	Refresh Start time : 9/11/2023, 3:55:40 F Correlation ID : 59e77bd6-be4d-43f	'M 8-b0d1-82	Microsoft Defender for Cloud Secure your apps and infrastructure Go to Microsoft Defender for Cloud >
		Resource	Туре	Status	Operatic	Free Microsoft tutorials Start learning today >
	•	fnstor5sutozr67	Note: Storage account	Accepted	Operatic	Work with an expert Azure experts are service provider partners
	Θ	pid-df79caa1-f747	Deployment	Created	Operatic	who can help manage your assets on Azure
	⊀ Give feedba حال الله al	ck bout your experience w	vith deployment		ŀ	Find an Azure expert >

Når du ser dette, ved du, at installationen er afsluttet.



Trin 3.5: Forberedelse af App'ens eksterne API-

legitimationsoplysninger

For at få et nærmere kig på den app, vi lige har installeret, skal du navigere til ressourcegruppen, der indeholder den. Gør dette ved at søge efter **Resource group** og klik på ikonet.

P Resource groups	X IG Q & adm)
All Services (28) Marketplace (1) Documentati	on (99+) Resources (0) Resource Groups (0)
Azure Active Directory (0)	
Services	See all
(•) Resource groups	Resource Graph queries
💡 Subscriptions	A Groups
Resource Guards	Application groups
😙 Resource Graph Explorer	Configuration Groups
Marketplace	
a Resource group	
Documentation	See all
Organize your Azure resources effectively - Cloud Adoption Fram	Use Bicep to deploy resources to subscription - Azure Resource M
How to manage Azure resource groups – Azure CLI	Manage resource groups - Azure portal - Azure Resource Manager
Manage resource groups - Python - Azure Resource Manager 🔄	Deploy resources to subscription - Azure Resource Manager
Manage resource groups - Azure CLI - Azure Resource Manager 🛛 🖻	List resource groups and resources using the Azure libraries for Py
Continue searching in Azure Active Directory	
Searching all subscriptions.	$\widehat{\mathcal{R}}^{2}$ Give feedback

Klik nu på navnet (ikke afkrydsningsfeltet) for den ressourcegruppe, vi valgte under installationen af appen.

		\times
n tags		
r		
	No grouping \checkmark == List view	\sim
Subscription \uparrow_{\downarrow}	Location ↑↓	
Bluetest4 Azure Plan	West Europe	
Bluetest4 Azure Plan	North Europe	
	r Subscription ↑↓ Bluetest4 Azure Plan Bluetest4 Azure Plan	n tags r Subscription ↑↓ Biuetest4 Azure Plan Biuetest4 Azure Plan North Europe

Du vil finde, at app-tilbuddet, vi installerede fra Markedspladsen, har oprettet syv ressourcer i ressourcegruppen. Ressourcen markeret **Function App** er selve appen, de andre er cloud-infrastruktur, som appen har brug for for at fungere. Klik på **Function App-ressourcen** med lynikonet for at få et nærmere kig på appens interne logik (klik på navnet, ikke afkrydsningsfeltet).

Home > Resource groups > () TDC_Erhverv_Teleph Resource group	nony_Integration 🖈 🛧 …			×
Search « Overview Activity log Access control (IAM)	Create Manage view In Delete resource group Refresh Essentials Resources Recommendations		⊘ Assign tags → N	flove ✓ ···· JSON View
 Tags Resource visualizer Events 	Filter for any field Type equals all Cocation equals all Showing 1 to 7 of 7 records. Show hidden types ③	X type 1		2W 🗸
Settings	Application Insights Smart Detection	Action group	Global	*
1 Deployments	Filure Anomalies - NuudayToB-5sutozr67fiik	Smart detector alert rule	Global	
Security	□	Storage account	North Europe	
Deployment stacks		Key vault	North Europe	
Policies	VuudayToB-5sutozr67fiik	Application Insights	North Europe	
Properties	🔲 🦘 NuudayToB-5sutozr67fiik	Function App	North Europe	
Locks	ServicePlanFunctionApp	App Service plan	North Europe	
Cost Management	< Previous Page 1 v of 1 Next >			Or Give feedback
Section Cost analysis			· · · · · · · · · · · · · · · · · · ·	2. One reedback

Kopier URL'en fra oversigtsafsnittet og gem den, vi vil bruge den senere. I dette eksempel er URL'en <u>https://nuudaytob-5sutozr67fiik.azurewebsites.net</u>, men hver gang du installerer en kopi af appen, oprettes en ny globalt unik offentlig URL. Klik derefter på **App keys** i menuen til venstre.

Home > Resource groups > TDC_Erhv	erv_Telephony_Integration > 2r67fiik ☆ …	×
P Search «	\square Browse 🕐 Refresh \square Stop \bigcirc Restart \rightleftarrows Swap \downarrow Get	publish profile $~~>~~$ Reset publish profile $~~\downarrow~~$ Download app content $~~$ Delete $~~\cdots~$
🦘 Overview		JSON View
Activity log	Resource group (move) : TDC Erhvery Telephony Integration	URL https://nuudaytob-5sutozr67fiik.azurewebsites.net
Access control (IAM)	Status : Running	Operating System : Windows
🔷 Tags	Location (move) : North Europe	App Service Plan : <u>ServicePlanFunctionApp (Y1: 0)</u>
Diagnose and solve problems	Subscription (move) : Bluetest4 Azure Plan	Properties : See More
Ø Microsoft Defender for Cloud	Subscription ID : 57ad7af8-0488-472a-84e9-d5af09f8793c	Runtime version :
Events (preview)	Tags (edit) : displayName : BicepDisplayname	
Functions	Functions Metrics Properties Notifications (0)	
📍 App keys	- Create (1) Seture level environment 14 (1) Defrech	
Mark App files	+ create () set up local environment > () kerresh	
→ Proxies	Filter by name	

Du vil finde, at installationsprocessen har oprettet to nøgler "_master" og "default". Du skal holde disse private og oprette en dedikeret app-nøgle til integration med TDC Erhverv Selvbetjeningsportal. Klik på plus-ikonet kaldet **Ny værtsnøgle (New host key)** øverst for at oprette en ny nøgle.

Home > Resource groups > TDC_Erhver	rv_Telephony_Integration > Nu	udayToB-5sutozr67fiik			
PuudayToB-5sutozr	r 67fiik App keys	* …			\times
✓ Search «	+ New host key 🖒 Refree	sh			
🦘 Overview	System keys				
Activity log	System keys are automatically n	nanaged by the Function runtime. System Keys provide granular access to functions ru	intime features.		
Access control (IAM)	Name	Value			
🗳 Tags					
Diagnose and solve problems					
Microsoft Defender for Cloud					
Events (preview)	Host keys (all functions) Use Host keys with your clients	to access all your HTTP functions in the appmaster key grants admin access to Func	tions Runtime APIs.		
Functions	Name	Value			
📍 App keys	Name	value			
Magazina App files	_master	·····	Show value	Renew key value	
-> Proxies	de feuda			Den eur keurrelue	i 🛱
Deployment	uelauit		Show value	Reliew key value	۵
Jeployment slots					

Du kan give nøglen et hvilket som helst navn, du vil, men i dette eksempel kalder vi den **TDC_Selfservice**. Lad værdien være tom for at lade Azure generere en stærk nøgle for dig, og klik derefter på linket nederst til højre kaldet **Generate a random key value and save**.

Home > Resource groups > TDC_Erhv	verv_Telephony_Integrati	ion > NuudayToB-5sutozr67fiik	Add host key		\times
	zr67fiik App	keys ☆ …			
✓ Search «	+ New host key	🕐 Refresh	Name * 🛈 🛛 🚽	TDC_Selfservice	
♦ Overview	System keys		Value 🛈	Enter value	
Activity log	System keys are auton	natically managed by the Function runtime. Syste			/;
Access control (IAM)	Name	Value			
🗳 Tags					
Diagnose and solve problems					
Ø Microsoft Defender for Cloud					
🗲 Events (preview)	Host keys (all functi Use Host keys with yo	ions) our clients to access all your HTTP functions in the			
Functions	Nama	Malua			
📍 App keys	Name	Value			
	_master				
➔ Proxies	defends				
Deployment	default				
5 Deployment slots					
Deployment Center					
Settings			Add Cancel	Generate a random key value	and save

Nu har du en ny app-nøgle. Noter den, vi vil bruge den senere. Du kan altid vende tilbage hertil og kopiere værdien igen, hvis du mister den. Denne nøgle udløber aldrig, men hvis du på et tidspunkt ønsker at afbryde TDC Erhvervs adgang til din app, kan du vende tilbage her og slette nøglen. I vores eksempel er nøglen **3Br2w2pK1I6qflrlLnMvZl-sMQk2Fj58amQx1Ng-nogoAzFuTsZg4g==**.

Home > Resource groups > TDC_Erhv	verv_Telephony_Integration >	> NuudayToB-5sutozr67fiik	
Punction App	zr67fiik App keys	′S ☆ …	\times
₽ Search «	+ New host key 💍 Re	\efresh	
🦘 Overview	System keys		
Activity log	System keys are automatical	ally managed by the Function runtime. System Keys provide granular access to functions runtime features.	
Access control (IAM)	Name	Value	
🗳 Tags		THE STATE OF	
Diagnose and solve problems			
Ø Microsoft Defender for Cloud			
🗲 Events (preview)	Host keys (all functions) Use Host keys with your clie	ents to access all your HTTP functions in the appmaster key grants admin access to Functions Runtime APIs.	
Functions	Name	Valua	
📍 App keys	Name	Aging	
📨 App files	_master	Show value Renew key value	
➔ Proxies			
Deployment	default	Show value Renew key value	
Ueployment slots	TDC_Selfservice	Show value Renew key value	Û
🌍 Deployment Center		↑	
Settings			

Nu bør du have følgende:

- App-URL: <u>https://nuudaytob-5sutozr67fiik.azurewebsites.net</u>
- App-nøgle: 3Br2w2pK1l6qflrlLnMvZl-sMQk2Fj58amQx1Ng-nogoAzFuTsZg4g==

Du kan nu fortsætte med at integrere appen med TDC Erhverv Selvbetjening, men du kan måske gå igennem det næste valgfrie trin først.



Trin 3.6 (Valgfrit) Sikkerhedsgennemgang af appen

Inden du overgiver appnøglen til TDC Erhverv, kan det være nødvendigt at få dit lokale sikkerhedsteam til at gennemgå funktionen i appen. Heldigvis er al logik i appen fuldt synlig og administreres og kontrolleres af dig. Hvis du nogensinde geninstallerer en nyere opdateret version af appen, vil du måske udføre denne gennemgang igen, da indholdet kan have ændret sig.

Begynd med at navigere tilbage til afsnittet **Function App Overview sektionen**. Nederst i midten er der en liste over alle de interne funktioner, der udgør denne app. I øjeblikket er der kun én. Vi kalder den **psweb** (alias Powershell-webservice). Klik på den for at undersøge den.

Home > Resource groups > TDC_Erhver	v_Telephony_Integration >					
Sunction App	67fiik				\times	
₽ Search «	\square Browse 🕐 Refresh \square Stop \bigcirc Restart \rightleftharpoons Swap		Reset publish profile 🛓 Do	wnload app content 📋 Delet	e	
🦘 Overview				JSOL	N View	
Activity log	Resource group (move) : TDC Erhverv Telephony Integration	URL	: https://nuudaytob-5su	utozr67fiik.azurewebsites.net		
Access control (IAM)	Status : Running	Operating S	ystem : Windows			
🗳 Tags	Location (move) : North Europe	App Service	Plan : ServicePlanFunctionA	<u>op (Y1: 0)</u>		
Diagnose and solve problems	Subscription (move) : Bluetest4 Azure Plan	Properties	: See More			
Ø Microsoft Defender for Cloud	Subscription ID : 57ad7af8-0488-472a-84e9-d5af09f879	3c Runtime ver	sion : 4.25.2.21138			
Events (preview)	Tags (edit) : displayName : BicepDisplayname					
Functions	Functions Metrics Properties Notifications (0)					
📍 App keys						
App files	+ Create {} Set up local environment \checkmark () Refresh					
-> Proxies	Filter by name					
Deployment	Name	Trigger	Status	Monitor		
🖶 Deployment slots		11770		In the second second		
Deployment Center	psweb	HTTP	V Enabled	Invocations and more		



{ f _X } psweb ☆ … _{Function}			×
🔎 Şearch	« 🗸 Enable 🚫 Disable 📋 Delete 🗈 Get Function U	Irl 💍 Refresh	
(5) Overview	∧ Essentials		JSON View
Developer	Resource group (<u>move</u>) TDC Erhverv Telephony Integration	Application Insights NuudayToB-Ssutozr67fiik	
Code + Test	Location North Europe		
 Integration Monitor 	Subscription (<u>move</u>) <u>Bluetest4 Azure Plan</u>		
📍 Function Keys	Subscription ID 57ad7af8-0488-472a-84e9-d5af09f8793c		
	Function app <u>NuudayToB-5sutozr67fiik</u>		
	Tags (<u>edit)</u> <u>Add tags</u>		
	See more		

Dette er den interne **Powershell-"payload",** der køres, når API'en for den omkringliggende app kaldes af TDC Erhverv. Denne kode kan ikke ændres af den eksterne bruger. Lav en kopi og send den videre til dit sikkerhedsgennemgangsteam, hvis din virksomheds styre- og kontrolpraksis kræver dette.





I vejledningen vil du opdage, at koden kan aktiveres til at udføre fire forskellige handlinger afhængigt af JSON-indholdet i den indgående anmodning.

Operation	JSON input	Description
App self-test	{ "function":"Test" }	Is the App installed and configured correctly.
App inspection	{ "function":"Dump" }	Check the presence of all App files and show their current MD5 sum. Only the sum is returned, never the file content.
Voice-enable a target Teams- user	{ "function":"Enable", "VKID":" <customer id="">", "Identity":"<target id="" user="">", "PhoneNumber":"+45888888888" }</target></customer>	Instruct the App enable Teams-calling and assign the given phone number on the target user.
Voice-disable a target Teams-user	{ "function":"Disable", "Identity":" <target id="" user="">", "PhoneNumber": "+45888888888" }</target>	Remove Teams-calling on the target user.

Disse operationer vil blive kaldt af TDC Erhvervs Order Management-system i TDC Erhverv Selfservicesystemet. Vi anbefaler ikke, at du selv kører stemmeaktiverings/deaktiveringsoperationerne, da de kræver synkronisering med TDC Erhvervs telefonsystem. Du kan dog til enhver tid køre selvtest- og inspektionsoperationer for at diagnosticere appens sundhedstilstand.

Undlad venligst at ændre i Powershell-koden. Selv ét tegn på det forkerte sted i denne fil vil ændre dens MD5-sum. Hvis TDC Erhverv nogensinde finder en app, hvor MD5-summen ikke stemmer overens med



det, der blev leveret med den version af Marketplace-tilbuddet, vil der ikke være support tilgængelig, og eventuelle uventede bivirkninger af dine lokale ændringer vil ikke blive dækket.

Eksempel 1:

```
curl https://nuudaytob-
5sutozr67fiik.azurewebsites.net/api/psweb?code=3Br2w2pK1I6qflrlLnMvZl-
sMQk2Fj58amQx1Ng-nogoAzFuTsZg4g== \
-d '{"function":"Test"}' \
-H "Content-Type: application/json" -X GET
```

```
Forventet respons:
```

{

```
"appVersion": "1.0.0",
"command": "Test",
"success": true,
"message": null,
"resultCode": "0"
}
```

Eksempel 2:

```
curl https://nuudaytob-
5sutozr67fiik.azurewebsites.net/api/psweb?code=3Br2w2pK1I6qflrlLnMvZI-
sMQk2Fj58amQx1Ng-nogoAzFuTsZg4g== \
-d '{"function":"Dump"}' \
-H "Content-Type: application/json" -X GET
```

Forventet respons:



{

"runFileStatus": {

```
"name": "run.ps1",
```

"hash": "35DEB8F80790AE4FC592E978D7741A8C",

```
"algorithm": "MD5",
```

```
"path": "C:\\home\\site\\wwwroot\\psweb\\run.ps1",
```

```
"lastWriteTime": "09/12/2023 12:02:10"
```

},

```
"hostFileStatus": {
```

```
"name": "host.json",
```

```
"hash": "87C6EC5070CAFFC64BFCA6EC866124D0",
```

"algorithm": "MD5",

```
"path": "C:\\home\\site\\wwwroot\\host.json",
```

```
"lastWriteTime": "09/12/2023 12:02:09"
```

},

```
"profileFileStatus": {
```

```
"name": "profile.ps1",
```

```
"hash": "3232551F749A13C292B1471EBA30B0EF",
```

```
"algorithm": "MD5",
```

```
"path": "C:\\home\\site\\wwwroot\\profile.ps1",
```

```
"lastWriteTime": "09/12/2023 12:02:10"
```

},

```
"requirementsFileStatus": {
```

```
"name": "requirements.psd1",
```

```
"hash": "7C9133B2BBF8F5E365C0C579C1CCB79C",
```

```
"algorithm": "MD5",
```

```
"path": "C:\\home\\site\\wwwroot\\requirements.psd1",
```

```
"lastWriteTime": "09/12/2023 12:02:10"
```

},

```
"appVersion": "1.0.0",
"command": "Dump",
```

```
"success": true,
```

```
. . . .
```

```
"message": null,
```

```
"resultCode": "0"
```

}

