



Single Sign-on (SSO) for Azure Reference Architecture

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Used, under license, U.S. Patent Nos. 6,473,802, 6,374,300, 8,392,563, 8,103,770, 7,831,712, 7,606,912, 7,346,695, 7,287,084 and 6,970,933





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Introduction

1 Introduction

Microsoft's Azure cloud is attractive to the growing number of companies who wish to expand or migrate their existing on-premises infrastructure to use easily configurable, on-demand resources. This is especially true where Microsoft infrastructure is extensively deployed in-house as the services offered by Microsoft in Azure will be very familiar.

Where companies are building hybrid environments, making the transition as seamless as possible – both from an architectural standpoint as well as the user perspective – is critical. In addition, finding a solution that is simple to configure and manage is equally important. Virtual LoadMaster, running in the Azure Cloud, provides comprehensive load balancing and content switching capabilities allowing multiple applications and web services to be aggregated, and the integrated Edge Security Pack (ESP) provides authentication and Single Sign-On services.

1.1 Document Purpose

This document describes how to set up LoadMaster to allow single sign-on to an application in a hybrid environment. The example uses SharePoint as the application running in the Azure Cloud, and shows integration with Azure Active Directory domain services.

1.2 Intended Audience

This document applies to:

- Cloud and Network Architects
- System and Security Administrators.



Implementing Single Sign-On with LoadMaster

2 Implementing Single Sign-On with LoadMaster

KEMP's LoadMaster includes the Edge Security Pack (ESP) which features:

- End point authentication for pre-authentication
- Persistent logging and reporting for user logging
- Single Sign-On (SSO)across Virtual Services
- LDAP Authentication from the LoadMaster to the Active Directory
- Basic authentication communication from a client to the LoadMaster
- Dual-factor authentication

This allows for a great deal of flexibility in configuring user access to applications. It provides a viable alternative to Microsoft TMG and can be used with security tokens such as the Department of Defence CAC (Common Access Card).



Implementing Single Sign-On with LoadMaster

2.1 Setting Up Single Sign-On in Azure

The following section describes how to set up a LoadMaster within the Azure cloud to provide single sign-on capability for an application.





For this example, SharePoint was chosen as the application and is assumed to have already been set up in Azure. Additional software configuration, both in Azure and on-premises, is required to set up Active Directory Domain Services as a precursor to setting up ESP on the LoadMaster.



Implementing Single Sign-On with LoadMaster

2.2 Implementation

Setting up the LoadMaster with ESP is relatively straightforward, however there are a number of steps initially to configure the Active Directory Domain Services. This was chosen to illustrate how LoadMaster can be used in connecting to, or migrating to, the Azure cloud.

Add directory		
DIRECTORY 📵		
Create new directory	~	
NAVE ()		
(EMPtoso		
DOWAIN NAME ()		
Comptosation nect	🧔 .onm cresoft.com	
ETHINI RY CARESION 🔞		
United States	4	
an and the second		0



Starting in the Azure portal, Figure 2 shows how to begin creating a new Azure Active Directory within the Azure subscription

👍 usens groups	APPLICATIONS	DOMINIS	DIRECTORY INTEGRA	ON CONFIGURE	REPORTS	LICENSES	
Your directo	ry comes	with a d	default dor	nain,			
KemptosoCc	nnect.on	microsc	ft.com. Ac	d a custor	m dorn	ain to improve	user
sign-on expe	riences!						
NOD & CUSTOM DOMAIN	•						

Fig. 3

The next step is to add a custom domain which will span the cloud and on-premises environments.



Implementing Single Sign-On with LoadMaster

ADD DOMAIN	×
Specify a domain name	
Enter the name of a domain that your organization owns.	
cemptosa.com	
🗌 I plan to configure this domain for single sign-on with my local Active Directory. 🐵	
add	



It is important for this domain to match the on-premises naming.

Verify kemptoso.com Ge ta your contrain name registrar wal upante the dris settings for hexeposokann Egyneticines for addition 2.000 execut intercontent deration some nearbread Add the recent type disk is supported by your domain rame registrar for samption succomp myre [DD] record	reau.
Ga to your komain name registrar and upotes the Dris settings for hemptosecurs Registracions for advices a DVX receipt not coupler advection serve analyting Add the recent type Table is upported by your domains name registrar for temptoo- second to '11'4' [D2] record	Learn.
Estimations for addition 2.0052 respect to puppler, do rain nerve residence Add the recard type it at a supported by your domain name registrar for temptoo successor type it at a supported by your domain name registrar for temptoo	Leon.
Add the record type that is supported by your domain name registrar for hemptoe Record TXII record	Leom.
Record TV/te	1
ALIVS OR NOST NAME	
DEST-MATION OR POINTS TO ADDRESS MIS-ms26293362	
TTL 1 Hour	
	mity



You must add a TXT record in external DNS to verify adding this domain according to the instructions provided by your domain name registrar.

ADD DOMMAN		
Verify kemptoso.co	m	
So to your occusio have registrar and upday	e the OftiS settings for comptosourum.	
Instructiones for adding a CINS record at po	aubir domain earne registraes	
Add the recent take that is supported by you	r dornain name regisă ar far hemotosacom,	
16C0100 1794	13.1 record	¥
N WE DR HOST NAME	٥	6
DESTINATION CRIMINIS TO ADDRESS	MS-mm210795262	6
m.	1. Hear	
	verify	
		~
		$(\checkmark$





Implementing Single Sign-On with LoadMaster

Once the record is added you can click on "verify" to complete this task and confirm success. Note that DNS propagation will need to occur so there may be a delay before this record becomes available

	ut this us	er			
TYPE OF USER					
New user in your orga	anization			~	
USER NAME					
Synd	ж		KemptosoConnectionmicrosoft.com	~	



The next part involves creating a user account in Azure AD. This will be used when synchronizing your on premises environment to Azure AD.

HIDIT NAME	LAST NAME	
Sync	Admin	
OBPLAT NAME		
Sync Acimin		
RDUE 💮		
Global Admin	~	
ALTERNATE FMAIL ADDRESS		
sync@outlook.com		
MULTI-FACTOR AUTHENTICATION		
Enable Multi-Factor Authentication		

Fig. 8

The user called "sync" will have the necessary administrative rights to permit the synchronization across AD in the cloud.



Implementing Single Sign-On with LoadMaster



Fig. 9

Make sure to note the password for this new user as this will be needed when starting the AD synchronization.

een- 🚱 AAD IX: Administrator	
A4D1X, Administrator	
ISCRIPTION 🚱	
Acministrator group for Amire AD X	



Next create a new group in Azure AD to use for administrators. The group must be named "AAD DC Administrators". You can add users to this group after you run Azure Active Directory Connect in a later step.



Then you must download and install Azure AD Connect on an on premises server according to Microsoft documentation.



Implementing Single Sign-On with LoadMaster





For this example the basic setting were used.

Internet to Yourr Au Different to Au DERPENDENT To Au 20 DERPENDENT DERPEN	Plaanne press Settings	Connect to Azure AD
Configure USERVEAME Press/Configure Configure Press/Configure	nnex to Azure AU	Enter your Azure AD credent alc 📀
ordigure می همچنین می	rnea to ota 25	USERNAME
N453W0F£D	nfigure	syn Ølemplesadsæver ændte og
		PASSWORD
		4004104410441
Connection to Microsoft Chiline to verify organitals		
average of the operations of the by displantation		



Now that all the initial preparation is complete, log in with the "sync" account you created in Azure AD to open the connection to the cloud environment.

Verticinar Express Settings Connect to AD DS Connect to AD DS Connect to AD DS Connect to AD DS USERNAME EXAMPLE Configure PASSWORD	Microsoft Azure Active I	Rectory Connect	-
Connect to AD DS USERVANCE Configure REMPTOSPDatemistance: PASSWORD	Welchme Depress Selfings Connect to Azure AD	Connect to AD DS	
Configure EEMPTUSCPacknewstocker PASSWORD	Connect to AD DS	USEBNAME	
PASSWORD	Configure	KEMPTOSC/administration	
**********		PASSWORD	

Fig. 14



Implementing Single Sign-On with LoadMaster

The enter your on-premises Enterprise Administrator credentials and both the cloud and onpremises environments will be ready for synchronization.





This example uses default configuration options. Configuration can then begin.



Fig. 16

The synchronization may take some time depending on the amount of data involved.



Implementing Single Sign-On with LoadMaster





Once complete, you should carry out some tests to ensure the process has worked as expected.

NSPLAY NAME	USER NAME	SOURCED FROM
•		
On Premises Directory Synchronization Service Account	Sync_KEMP1050-CON1_23d61c533e66gikEN/PToecDS.ormicrosoft.com	Local Active Directory
Parepoint Use/1	SPUser1@KDMPteso.com	Local Active Directory
Parepoint Use 2	SPUser2@K3MPtoso.com	Local Active Directory
iP Admir	SPAdmin@KEMPtoso.com	Local Active Directory
iyns Admin	Sync@KEMPTesoDS.onnicresoft.com	Microsoft Azure Active Directory



Connect to Azure and open your Azure Active Directory domain. Then select "USERS" and verify the synchronization completed. Typical results are shown in figure 18.



Implementing Single Sign-On with LoadMaster

SHOW Upert	×				
P. 1008	ISER NAME	GERAGEMENT	P	96.90190	
Cat Are	dino i i Qnotroall.com			SP Admin	
🔛 Di-Membra Directory Sp	5yrs_X84/19050-CON1_27661x55	ed-etz.			
Trenspoint User!	Place 18KDVPloss.com				
Transport Lord	Plan 18 (INFlass.com				
1 Se Adrem	🗶 stantestation				
Srs Adrin	Synull REV PhoseDB on more all up	en l			



Next, select "GROUPS" and add the users to the group "AAD DC Administrators". These are the users that will require administrator functions, for example to add servers to domain.

domain services means		
CHARLE DOMAIN SERVICES FOR THIS DIRECTORY	Y25 963)
By enabling Azere AD Domain Sor. Azere AD	cession lines directions, you consent to scenny credential hockes require	ed for NTLM and Rentero: authentication in
integrated applications		
Integrated applications	273 NO)
Integrated applications uses war far capacity fram the capacity of integration laster mark and integrated capacity of the capacity	NG 160	

Fig. 20

Connect to Azure and open your Azure Active Directory domain. Then select the configure tab and select "YES" to enable Domain Services.



Implementing Single Sign-On with LoadMaster

ENABLE DOVIAIN SERVICES FOR THIS DIRLETORY	YES NO		ć
By enabling Azure AD Domain Services Azure AD.	for this directory, you consent to storing credential hashes require	ed for NTLM and Kerberos au	uthentication in
ONS DOMAIN NAME OF DOMAIN SERVICES	cemptoso.com	v	6

Fig. 21

In the drop down options, select your on premises domain name and the Virtual Network you want to use.





This process will take a little while to complete, and domain services will then be operational.

INALLE DOMAIN SERVICES FOR THIS DIRECTORY	YES NO	0
Users will not be able to login to the d	ontain using their credentials until you enable password synchronization.	
DNS DOMAIN NAME OF DOMAIN SERVICES	hemplaso.com 🗸	30
CONNECT DOMAIN SERVICES TO THIS VIRTUAL NETWORK	$Product with ET(Sched: 1(192166.45 \Delta 037)) Etc) US(schot, \sim$	



In the Portal, under domain services you will presented with two IP addresses to use.



Implementing Single Sign-On with LoadMaster

ins servers			
DOTAIN SERVICE 1	PE2108433		
Coman Service: 2	HE-102.43.0		
select or post nal	* N-00/255		
point-to-site conn	xtikity		
ooint-to-site conn maarmos ortual cetwork adi	activity Eterlepingentra-Hocer Inters species	Nory	
ooint-to-site conn maarmos artual cetwork adi actual cetwork adi	In the second se	5 USAR: A25105.14982	
anne ann an ann an ann an ann an ann an ann an a	El Contegur por Vince Hauser La Contegur por Vince Hauser Anna Tallor Contegur Vince Hauser Michilde Contegur Vince Hauser	5 15.31 10.117 10.127 10.112.11.117 10.121 10.112.11.117 10.112.121	

Fig. 24

Now make changes to your Virtual Network configuration to use the new Directory Service IP address for your DNS Servers.

DNS Suffix Search List	-	: Sharepoint-1f386b1a.b7.internal.cloudapp
Ethernet adapter Ethernet 2:		
Connection-specific DNS Suffix		Sharepoint-1f386b1a.b7.internal.cloudapp
Description		: Nicrosoft Hyper-V Network Adapter #2 : 88-80-38-12-45-16
DHCP Enabled.		: Yes : Yes
Link-local IPv6 Address IPv4 Address		: fc80::10f6:1413:80a7:edc4x15(Preferred) : 192.168.40.4(Preferred)
Subnet Mask		: 255.255.255.224 : Vedneyday, December 16, 2015 2:24:26 PM
Lease Expires		: Saturday, January 22, 2152 8:56:40 PM : 192,168,48,1
DHCP Server		: 168.63.129.16 : 352324922
DHCPv6 Client DUID		: 00-01-00-01-1E-02-34-40-00-0D-3A-13-54-A8
DNS Servers		= 192.168.40.5 192.168.40.5
NetBIOS over Tepip		= Enabled

Fig. 25

Your virtual machines will now have these two IP address for DNS.

You can change the name an computer. Changes might affe	t the memb of access to	ership d networ	i this k resources
Computer name:			
Sharepoint			
Member of			More
kenptoso.com			
O Workgroup:			

Fig. 26

Now return to the on-premises environment to make the final changes. Add your server running in Azure to Active Directory. This will be the SharePoint server set up for this example.



Implementing Single Sign-On with LoadMaster

inter the na iomain.	me and password of an account wit	n permission	n to join the
	SPAdmin		
	•••••		
	Domain: kemptese.com		
	Connect a smart card		
		OK	Cance

Fig. 27

Then you must provide a user account that is a member of the AAD DC Administrator Group



Fig. 28

And now the domain integration is complete and you can connect to the LoadMaster to set up the user access.

AzureDS	Add
---------	-----

Fig. 29

First, add new SSO domain called "AzureDS" to the LoadMaster.

Blocked User	When	Operation	
Currently Blocked	Users		
	Test User Password	Set Test User Passue	ird
	Test User	Set Test User	102 ⁻⁰
	Lise I	ar Session Timenut Idle fitte 🔍	
	Session Timeout [1800	Set Max Duration	28800 Set Max Duration
	900	Set Idle Time	900 Set Idle Time
	Failed Login Attempts 0	Set Failed Login Attempts	Britanta , Trustad Lournon ant
	Logon Trenscode Dis al	lad 🔽	
	Logan hormat Princ	palname 👻	
	Domein/Realm KEM	Ploso.com Set Domain/Realm Name	
	LDWP Server(s) 192 1	60 40 5 192 168 40 6 Set I DA	P Server(s)
	LDAP Configuration Type Uner	crypted 🛩	
	Authentication Protocol LDAI	~	

Fig. 30



Implementing Single Sign-On with LoadMaster

Then configure the settings for new SSO domain. The "LDAP Servers" selection must point to Azure AD Domain Services using the IP addresses provided above.

Claime Authentication Tuner		
Clairis Autoretucauuri rypes	Enable Windows Authentication	
Choose the type of	Integrated Windows authentication	
for this zone.	Negotiate (Kerberos)	~
Negotiate (Kerberos) is the recommended security configuration to use with Windows authentication. If this	DEBasic authentication (credentials are sent in clear	text)
option is selected and Kerberos is not configured, NTLM will be used. For Kerberos, the application pool account needs	Enable Forms Based Authentication (FBA) ASP.NET Membership provider name	
to be Network Service or an account that has been configured by the domain administrator. NTLM authentication will work with any anolication peol account	ASP.NET Role manager name	
and with the default domain	Trusted Identity provider	
configuration.	There are no trusted identity providers defined.	



This example uses Basic Authentication for the SharePoint Web Application.





Navigate to "ESP Options" to enable ESP and select the SSO domain. You can also configure the SSO banner in this screen.





Once configuration of the LoadMaster is complete, single sign-on is enabled. Figure 33 shows the SSO banner and welcome message that was set up earlier. Users will be required to log in through this to access the SharePoint application.



Implementing Single Sign-On with LoadMaster

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Canal Common Sear 4 m				ISASE FAR
Searcy the sets			Home Petrums	5>
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	Dacaments		Newsfeed	
L2	(i) new document or drag files here		Start v conservation	
	V D name	people to the site, or start a conversation.	It's pretty guist hars, invote more	

Fig. 34

Once the user has successfully logged in they will have access to the SharePoint site hosted in the Azure Cloud.



References

References

Additional supporting documents can be found at <u>http://kemptechnologies.com/loadmaster-</u> <u>documentation</u>. The following items in the feature description section address the example above and also provide additional information on configuration for virtual services and security.

- Edge Security Pack (ESP)
- LoadMaster for Azure
- HA for Azure

Microsoft provides documentation and access to Azure AD Domain Services download: <u>https://azure.microsoft.com/en-us/services/active-directory-ds/</u>



Document History

Document History

Date	Change	Reason for Change	Version	Resp.
Mar 2016	Initial release	First version	1.0	СВ