Trabajo en clúster de alta disponibilidad en las instalaciones de SSM 8.X

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Introducción

Este documento describe cómo funciona la sincronización Smart Software Manager (SSM) On-Prem Account y el registro de la instancia del producto en el servidor SSM On-Prem implementado como un clúster de alta disponibilidad (HA), en el momento de los escenarios de recuperación ante fallos y recuperación.

Prerequisites

Requirements

Cisco recomienda que tenga conocimiento sobre estos temas:

- SSM in situ
- HA

Componentes Utilizados

La información en este documento se basa en SSM On-Prem 8 y superiores.

The information in this document was created from the devices in a specific lab environment. All of

the devices used in this document started with a cleared (default) configuration. Si tiene una red en vivo, asegúrese de entender el posible impacto de cualquier comando.

Antecedentes

Estos son los documentos de referencia que proporcionan información sobre HA.

- https://www.cisco.com/web/software/286285517/151968/Smart_Software_Manager_On-Prem_8_Console_Guide.pdf
- https://www.cisco.com/web/software/286285517/152313/Smart_Software_Manager_On-Prem_8-202006_Installation_Guide.pdf

Sincronización de cuenta en las instalaciones de SSM durante conmutación por fallas y reserva

Se debe configurar HA entre dos servidores en las instalaciones de SSM con la ayuda de esta guía:

Implementar el clúster HA: https://www.cisco.com/web/software/286285517/152313/Smart_Software_Manager_On-Prem_8-202006_Installation_Guide.pdf

En esta demostración, utilice:

- .5 Dirección IP del servidor principal
- .10 Dirección IP del servidor secundario
- .12 Dirección IP virtual

Alta disponibilidad

1. La configuración correcta de HA muestra el servidor primario (.5) como activo, servidor secundario (.10) como en espera y VIP (.12) sd que se muestra en la imagen.



2. La sincronización de SSM en las instalaciones con Cisco Software Central se ha completado correctamente desde el servidor primario/activo, como se muestra en la imagen.

uludu cisco									Logo	ed in Acco	sunt Log Out	
Smart So	oftware N	lanage	er On-Prem				Network			Syste	m Health Good	
Access	High Sy	nchron Acc	ization	Schedules			General Network Interf		fi Server N Version Uptime	Your machine is workin ame CentOS 8-202006 1 day	g well	
Management Accounts	Availabilit Status Network	Major Name annanr-ss	Minor Omeran Minor	Satellite Name annanr-ssm-on	Last Synchronization 2020-Sep-01 14:13	n Synchr 1:44 2020-1	c	IPv4 Address	S	Reso CPU RAM DISK	I State & KPR	age
	counts Accounts	3	Account Requests	Event Log						Rece	nt Alerts	
API Tooli	New Accou	int	8				Searc	ch by Account I	Name			
	Account annanr-ssm-o prem-8-2020	on- 06	Requested By annanr@cisco.com	Cisco Smart Acco	unt Cisco Virtual A annanr-SSM-C Prem-8-20200	CCOUNT AC	count Status	Actions Actions		dmin	ected Users)0:06:1
								Sh	owing All 1 Records			

3. El estado HA del clúster muestra que la base de datos del servidor primario (Replication Master) a la izquierda se replica a la base de datos del servidor secundario (Replication Slave) a la derecha, como se espera en la imagen.

poso: active/enabled Last login: Tue Sep 1 14:45:57 UTC 2020 on pts/0	Last login: Tue Sep 1 14:5/:12 UTC 2020 on pts/e
Anna Anna Anna Anna Anna	Database Replication Status:
Ustable Replication Status:	Database is currently the replication slave - Replicating from primary-node (3.5)
Uwtobase is currently the replication master - weplicating to secondary-mode (.iw) Replication to slave: client.addr backend.start state write.lag flush.lag	<pre>Endplication to slave:</pre>
replay_lag	
192.168.1.5 2020-09-01 07:50:45.628722+00 streaming 0 0	Replication from master: _pg_last_xlog_replay_location
	0/53C0868 (1 row)
Replication from master: pg_last_xlog_replay_location	
(4 mm)	

Failover

1. Detención del clúster HA en el servidor primario como se muestra en la imagen.



2. Primario|Secundario como se muestra en la imagen.



3. Se ha conectado a la GUI en las instalaciones de SSM con el uso de VIP y la GUI principal está inactiva.

- 4. El servidor secundario (.10) se muestra como servidor activo.
- 5. El latido se desconecta.
- 6. El servidor principal (.5) se ha movido al estado En espera.

ululu cisco							
Smart S	oftware Mana	High Availability	logs		8	Syste	m Health Good
Access Management	Security	Degraded The cluster is degraded One	f the cluster nodes is offline	Heartbeat Connection status: Disconne	octed	Server N Version Uptime Reso	Your machine is working well ame CentOS 8-222006 1 day urce Monitor Percentage
		VIP .12				RAM DISK	
Accounts	Getungs	Active Serve public address (*	.10)	Standby public address	y Server s (5)	-ens192 Rece	
API Toolkit	Support Center	secondary-node (192	.168.1.5)	primary-node	(192.168.1.4)		
High	Synchronization	Active		Degr	aded	Conn &admin	ected Users 00:00:25
Availability Status		System Information					
	(Ú)	Physical Memory	7.62 GB	Physical Memory			
Network	Users	Disk Space Current Version	7.70 GB 8-202006	Disk Space Current Version	-		

7. La sincronización de la cuenta en las instalaciones de SSM con Cisco Software Central se puede ver correctamente desde la GUI del servidor secundario/activo, como se muestra en la imagen.

cisco												
Smart S	oftware	Managor On	Brom						8		System Hea	uth ed
•		Accounts	Account Requests	Event Log		Network			8		Your I Server Name Version	nachine is working well CentOS 8-202006
Access Management	Security	New Account	D			Gen	ens192	Network Interface	Proxy		Resource N	Ionitor Percentage
Accounts	Settings	Account annanr-ssm-on- prem-8-202006	Requested By annanr@cisco.com	Cisco Smart Account	Cisco annai Prem	••	Connected IPv4 Address	d 10	Bubnet Mask 255.255.255.0		CPU I RAM DISK I	
TOOLS	•	Synchronizatio	on				IPv6 Addre	858	Prefix		Recent Aler	T 633.6 KB/S ♥ 161 KB/
API Toolkit	Support Center	Accounts	Scriedules									
	3	Major ON	Minor Satellite Name	Last Synchronizati	ion						Connected Ladmin	Users 00:02:26
High Availability Status	Synchronizat	annanr-ssm-on-p	xrem-8-202006 annanr-ssm-o	n 2020-Sep-01 14:	13:44							
Network	Users									6		

8. Iniciando el clúster HA en el servidor primario como se muestra en la imagen.



9. El estado del clúster de HA muestra que la base de datos principal se replica desde la base de datos secundaria.

10. Primario|Secundario como se muestra en la imagen.



11. La GUI muestra el latido como conectado, Secundario en estado Activo y Primario en estado En espera como se muestra en la imagen.

alialia cisco		

Smart Software Manager On-Prem

		High Availability				8
6	I A	Host	Event Logs			
Access Aanagement	Security	Normal		Heartbeat		
		The status of the l	nigh availability cluster is normal.	Connection statu	s: Connected	
Accounts	Settings	VIP	.12			
_	(Day		Active Server		Standby Server	
TCOLS		public ad	ddress (10)		public address (i.5)
API Toolkit	Support	seconda	ry-node (192.168.1.5)	\wedge	primary-node (192.168	.1.4)
	Center	and the second s	Active		۰۰۰ (Standby	
High Availability Status	Synchroniz					
	ļ	System Inform	nation			
Network	Users	Physical Memo	ry 7.62 GB	Physic	al Memory	
		Disk Space	7.70 GB	Dis	k Space	
		Current Versio	8-202004	Curre	nt Version	

- 12. Cree una nueva cuenta TEST y actívela en Active standby. (.10).
- 13. En esta etapa no se podrá acceder a la GUI principal (.5).

counts					
Accounts	Account Requests	Event Log			
New Account	D			-	Search by Account Name
Account	Requested By	Cisco Smart Account	Cisco Virtual Account	Account Status	Actions
annanr-ssm-on-prem-8- 202006	annanr@cisco.com	.com	annanr-SSM-On-Prem-8- 202006	Active	Actions
TEST	annanr@cisco.com		TEST123	Active	Actions
					Showing All 2 Records

VIP	.12	
	Active Server	Standby Server
	public address (* .10)	public address (
	secondary-node (192.168.1.5)	primary-node (192.168.1.4)
California (**	
	Active	Standby

Reserva

1. Detener Ha_cluster en Secundario como se muestra en la imagen.



2. El estado actual de la base de datos del servidor primario y de la base de datos del servidor secundario se puede ver aquí.



3. Se ha conectado a la GUI en las instalaciones de SSM con el uso de VIP y la GUI secundaria está inactiva.

- 4. El servidor principal (.5) se muestra como servidor activo.
- 5. El latido se desconecta.

6. El servidor secundario (.5) pasó al estado En espera.



7. La cuenta TEST creada recientemente se puede ver en estado sincronizado como la replicación ocurrió desde la base de datos secundaria a la principal, como se muestra en la imagen.

ahaha		High Availability	Account Log Out
cisco		Host Event Logs	
Smart Software Ma	nager On-Prem	Degraded Heartbeat The cluster is degraded One of the cluster nodes is offline Connection status: Disconnected	System Health GOOd Your machine is working well erver Name CentOS fersion 8-202006 Jotime 1 day
Access Security Management		VIP .12	
Accounts Settings		Active Server Standby Server public address (* 1.5) public address (* 1.0) primary-node (192-168-1.6) secondary-node (192-168-1.5)	RAM DISK I
			ns192
API Toolkit Support Center		Active Degraded Accounts	8
🛑 🚳		Accounts Account Requests Event Log	00:01:43
High Synchronization Availability		New Account Search by Account Name	
Status		Account Requested By Cisco Smart Account Cisco Virtual Account Account Status Actions annanr-ssm-on- prem-8-202006 annanr@cisco.com com annanr-SSM-On- Prem-8-202006 Active Actions	-
Network Users	ynchronization	TEST annanr@cisco.com com TEST123 Active Actions	
	Accounts	Showing AI 21	Records
	🕕 Major 🕕 Minor	Search by Name	
	Name	Satellite Name Last Synchronization Due Alerts Ac	
	annanr-ssm-on-prem-8-202006	annanr-ssm-on 2020-Sep-02 07:33:32 2020-Oct-02 07:33:32 Synchronization Successful Acti	
	TEST	TEST 2020-Sep-02 07:35:42 2020-Oct-02 07:35:42 Synchronization Successful Acti	

8. Se podrá acceder a la GUI desde la dirección VIP (.12) en esta etapa y no desde la dirección IP secundaria.

9. Inicio del clúster HA en el servidor secundario como se muestra en la imagen.

>> ha_cluster_start Last login: Wed Sep 2 09:10:52 UTC 2020 on pts/0 Starting Cluster (corosync)... Starting Cluster (pacemaker)...

10. El estado HA del clúster muestra que la base de datos del servidor primario (Replication Master) a la izquierda se está replicando a la base de datos del servidor secundario (Replication Slave) a la derecha como se esperaba, como se muestra en la imagen.



11. La GUI muestra Heartbeat conectado entre el servidor primario activo y el servidor secundario en espera.

12. La cuenta TEST se sincroniza correctamente con Cisco Software Central.



Registro de instancia de producto con SSM On-Prem VIP durante la conmutación por fallas y la reserva

Se debe configurar la alta disponibilidad entre dos servidores en las instalaciones de SSM mediante esta guía:

Implementación del clúster HA:

https://www.cisco.com/web/software/286285517/152313/Smart_Software_Manager_On-Prem_8-202006_Installation_Guide.pdf

En esta demostración, utilice:

- .11 Dirección IP del servidor principal
- .9 Dirección IP del servidor secundario
- .14 Dirección IP virtual

Alta disponibilidad

1. Configuración correcta de HA que muestra el servidor primario (.11) como activo, servidor secundario (.9) como en espera y VIP (.14).

cisco				Ligged in Account Ligg Like
Smart So Access Management	oftware I	Manager On-Prem High Availability Host Event Logs Normal The status of the high availability cluster is normal.	eat tion status: Connected	System Health Solution Content of the second secon
Accounts	Settings Settings Support Center	VIP .14 Active Server public address (`.11) primary-node (169.254.0.1) Active Active	Standby Server public address (.9) secondary-node (169.254.0.2)	Ventors ena192 ▲ 4.1 MB/s ♦ 1.9 MB/s Recent Alorts Insufficient Licenses
Status Network	Users	System Information Active Server Physical Memory 7.62 GB Disk Space 7.83 GB Current Version 8-202105	Standby Server Physical Memory Disk Space Current Version	t

2. El estado HA del clúster muestra que la base de datos del servidor primario (Replication Master) a la izquierda se replica a la base de datos del servidor secundario (Replication Slave) a la derecha, como se espera en la imagen.

MCBD Statusi primsty-mode: Online secondsry-mode: Online	PCED Status: secondary-node: Online primary-node: Online
Skemen Status: soroaye: active/emabled pscemaker: active/emabled psdf: active/emabled Last login: Sum Jum 20 18:12:43 UTC 2021 on pts/0	Daemen Stitus: coresyn: atius/enabled posemakar: atius/enabled posd: atius/enabled Last login: Sun Jun 20 18:11:42 UTC 2021 on pts/0
Database Replication Status:	Database Replication Status:
Database is currently the replication master - Replicating to secondary-node (Database is currently the replication slave - Replicating from primary-node (
Replication to slave: client_addr backend_start state write_leg flush_lag replay_lag	Replication to slave: client_addr backend_start state write_leg flush_leg replay_leg
169.254.0.2 2021-06-18 15:58:57.231321+00 streaming 0 0 0 (1 row)	Replication from master: pg_lest_xlog_replay_location
Replication from master: pg_last_xlog_replay_location	0/C2834F8 (1 Tow)

3. Cuando SSM On-Prem se implementa como un clúster HA, inicie sesión en SSM On-Prem **Administration Workspace**, navegue hasta **Security > Certificates** y utilice la dirección IP virtual en Host Common Name. 4. Este valor debe coincidir con el valor que planea utilizar para la URL de destino del producto. Si implementa una pila doble (tanto IPv4 como IPv6), este valor debe ser un FQDN y no una dirección IP.

5. Después de actualizar el nombre común del host, asegúrese de que los certificados se regeneran con el nuevo nombre común sincronizando las cuentas locales con Cisco Smart Software Manager.

6. Debe sincronizar antes de intentar volver a registrar los productos con el nuevo nombre común en la configuración de URL de destino.

7. Si no se sincroniza, los productos no se pueden registrar con el nuevo nombre común de host.

cisco					Licensing Workspace	
Smart Software	Manager On-Prem				•	System Health Good
📀 🍥	Account	Password	Certificates	Event Log	×	Your machine is working well Server Name annani-8-202105 Version 8-202105 Uptime 14 days
Access Security Aanagement	Product Certificate					Resource Monitor Percentage
•	.14					RAM DISK
Accounts Settings	NOTE: The Host Common Nar for product communications is to configure the Cisco Product issue a new CSR	ne is typically compose a specific to the Commo t when connecting to St	d of Host + Domain Name ar n Name that has been issued SM On-Prem. If you change t	d will look like "www.yoursite.com" or "yoursite.com". The SS I at the Host. Therefore, the Common Name must match the I se Common Name, you must resynchronize your Local Accou	SL Server Certificate used Web address you will use init in order for Clisco to	ens192 • 1.8 MB/s • 1.8 MB/s Recent Alerts Insufficient Licenses
API Toolkit Support Center	Browser Certificate					
e 🚳	Add Generate CSR)		EXPIRATION	DATE: 2022-JUN-06	Connected Users
	CA Certificates				🛔 Hello, Local Admin	Logged In Account Log C
imart Software Manager O	n-Prom > Smart Licensing			Product Registration URL https:// .14/Transportgateway/services/DeviceRequestHa t	x andle	🗐 annanr-ssm-on-prem-8-2021 👻
Smart Licen	sing		,	ress ctrl + c to copy selected text to clipboard.		
Alerts	Inventory Convert to Sma	Int Licensing	Reports Preference	is Activity		
Local Virtual Acc	count: Default					
General	Licenses F	Product Instances	SL Using Policy	Event Log		
Local Virtual Acc	count					
Description		This is the de	fault virtual account create	d during company account creation.		
Default Local V	Artual Account:	Yes				
Product Instance	e Registration Tokens					
The registration toke support Smart Licen use the Smart Call H	ans below can be used to register new pro- ising Using Policy that use cslu as transpo- tome Registration URL. The recommende	oduct instances to this Lo ort, you must configure th id method is Smart Transj	cal Virtual Account. For produc e "license smart transport cslu port. Please consult your Produ	Is that support Smart Transport, you must configure the "license is to use the CSLU Transport URL. For legacy products that still use cts Configuration Guide for setting the destination URL value.	mart url* on the product to use the Smart Transpor p smart Gall Home, you must configure the "destin	t Registration URL. For products that ation address http" on the product to

8. Dos instancias del producto (annanr-39) y (cucmpub) se registran en la dirección VIP de SSM On-Prem, como se ve en la pestaña **Instancias del producto**.

9. La licencia consumida/solicitada por estas instancias del producto se refleja en la pestaña **Licencia**.

cisco						🐣 Hello, Local Admin	Admin Workspace
Smart Software Manager On-Prem > Smart Licensing							annanr-ssm-on-prem-8-2021 •
Smart Licensing							tal i
Alerts Inventory Convert to Smart Licensing	Reports	s Preferences	Activity				
Local Virtual Account: Default							
General Licenses Product In	stances S	SL Using Policy Ev	ent Log				
Þ							Search by Name, Product Type Q
Name Product Ty	ре	Last Contact	Alerts			Actions	
UDI_PID:PI-SOFTWARE;UDI_SN:annanr-39 SDNMGM	т	2021-Jun-20 18:39:00				Actions	
cuompub UCL		2021-Jun-20 18:36:56				Actions	
						10 🛩 Showing	g Page 1 of 1(2 Records) (
							Logged in Account Log Out
cisco						🐣 Hello, Local Admin	Admin Workspace
Smart Software Manager On Prem > Smart Licensing							
							annanr-ssm-on-prem-8-2021 👻
Smart Licensing							
Alerts Inventory Convert to Smart Licensing	Report	s Preferences	Activity				
Local Virtual Account: Default							
General Licenses Product In	stances §	SL Using Policy Ev	ent Log				
							By Name By Tag
Available Actions * Manage License Tags							Search by License Q
License	Billing	Purchased	In Use	Substitution	Balance	Alerts	Actions
Prime Infrastructure 3.x, BASE Lic.	Prepaid	0	1		-1	O Insufficient Licenses	Actions *
Prime Infrastructure 3.x, Lifecycle Lic.	Prepaid	0	34		-34	O Insufficient Licenses	Actions -
UC Manager Enhanced License (12.x)	Prepaid	0	3		-3	O Insufficient Licenses	Actions -
UC Manager Enhanced Plus License (12.x)	Prepaid	0	1		-1	O Insufficient Licenses	Actions +
UC Manager Telepresence Room License (12.x)	Prepaid	0	1		-1	O Insufficient Licenses	Actions -

Showing All 5 Records

Failover

1. Detención del clúster HA en el servidor primario como se muestra en la imagen.

PCSD Status: primaty-node: Online secondary-node: Online	PCSD Status: secondary-node: Online primary-mode: Online
Daemon Status: corosync: active/enabled pscemaker: active/enabled psd: active/enabled Last login: Sun Jun 20 18:12:43 UTC 2021 on pts/0	Daemon Status: corosync: active/enabled pacemaker: active/enabled posd: active/enabled Last login: Sun Jun 20 18:11:42 UTC 2021 on pts/0
Database Replication Status:	Database Replication Status:
Database is currently the replication master - Replicating to secondary-node ('.9)	Database is currently the replication slave - Replicating from primary-node (.11)
Replication to slave: client_addr backend_start state write_lag flush_lag replay lon	Replication to slave: client_sddr backend_start state write_lag flush_lag replay_lag
a fa a marte a La marte a marte La marte a marte	
109.254.0.2 2021-06-18 15:58:57.211121+00 streaming 0 0 (1 row)	Replication from master: pg_last_xlog_replay_location
Replication from master: pg_last_xleg_replay_location	0/C753AF8 (1 Tow)

(1 row)	
»	
<pre>>> ha_cluster_stop last locin: Sun Jun 20 18:12:45 UTC 2021 on ots/0</pre>	
Stopping Cluster (pacemaker)	
Stopping Cluster (corosync)	

- 2. Inició sesión en la GUI de SSM in situ con el uso de VIP (.14) y la GUI principal está inactiva.
- 3. El servidor secundario (.9) se muestra como servidor activo.
- 4. El latido se desconecta.
- 5. El servidor primario (.11) se mueve al estado En espera.

cisco							Licensing Workspace	
Smart So	oftware	Manager	On-Prem					System Health
•		ligh Availa Hos	bility t Event Log	3 2		8		Your machine is working well Server Name annan-7-20-8-05 Version 8-202105
Access Management	Security	The second	egraded cluster is degraded One of th	he cluster nodes is offline	Heartbeat Connection status: Disconr	ected		Resource Monitor Percentage CPU RAM
Accounts	Settings	VIP	.14					ens192
API Toolkit	Support		Active Server public address (secondary-node (169.25	.9) (4.0. <i>2</i>)	Stand public addre primary-no	by Server ss (11) se (169.254.0.1)		Insufficient Licenses
High Availability	Center Synchronia	C.	Cit Active					Connected Users
Status	i	System	n Information					
Network	Users	Ph	Active Ser hysical Memory Disk Space urrent Version	7.62 GB 7.56 GB 8-202105	Standby S Physical Memory Disk Space Current Version			

6. Registro de instancias de productos con el uso de SSM On-Prem VIP en la URL de registro de productos en la configuración Transport Gateway, como se muestra en la imagen.



7. Nombre de la instancia del producto: pi37 se ha registrado correctamente con SSM On-Prem con el uso de una dirección VIP como se muestra en la imagen.

0	dodo Prime Infrastructure					Q - Application Search	🐥 😣 9	root - ROOT-DOMAIN 🔅
∩ ∣ A	dministration / Licenses and Softwa	re Updates / Smart Software L	icensing 🖈				Licensing Das	shboard 🕘 💭 🗭 🔲
Licen	sing Settings License Dashboard Setting	18						
Sma	rt Software Licensing							
0 т	view and manage Smart Licenses for your Cisco S	mart Account, go to Smart Software Manage	*					
Sma	rt Software Licensing Status							
	Licensing Mode, Smud Software Licens	in-						
	Product Name Prime Infrastructure	ang						
	Registration Status Security (Jun 20	2021)						
Lie	ense Authorization Status 8 Out of Compliance	(Jun 20, 2021)						
	Smart Account annanr-ssm-on-prem-	8-202105						
	Virtual Account Default							
	Product Instance Name pi37							
	Transport Settings Transport Galeway Vi	ew / Edit						
*	Smart License Usage							
	Choose Licenses			Last updated: Sunday Jun 20, 202	1 at 7:28 PM			
		Beenfullen	0 umt	Obstan				
	License	Description	Count	Status				
	Prime Infrastructure 3.x, Assurance Lic.	The Assurance license	2	Out of Compliance	0			
	Prime Infrastructure 3.x, BASE Lic.	The Base license	1	Out of Compliance	0			
	Prime Infrastructure 3.x, Lifecycle Lic.	The Lifecycle license	14	Out of Compliance	0			
	Prime Infrastructure 3.x, UCS Server MGMT Lic.	The Data Center license	0	No Licenses in Use	0			
	Prime Infrastructure 3.x, UCS VM	The Data Center Hypervisor license	0	No Licenses in Use	0			
Act	ions v							

8. Registro de otras instancias de productos con el uso de SSM On-Prem VIP en la URL de registro de productos en el parámetro Transport Gateway.

Success Smart agent registered successfully

- Status
Transport settings saved successfully.
Configure now the product instance will communicate with Cisco.
O Direct - product communicates directly with Cisco licensing servers.
URL : https://tools.cisco.com/its/service/oddce/services/DDCEService
O Transport Gateway - proxy data via Transport Gateway or Smart Software Manager satellite.
URL : https:// .14/Transportgateway/services/De
O HTTP/HTTPS Proxy - send data via an intermediate HTTP or HTTPS Proxy.
Authentication needed on HTTPS proxy
IP Address/Host Name :
Port :
User Name :
Password :
Do not share my hostname or IP address with Cisco.

9. Registro del producto completado correctamente con SSM On-Prem usando una dirección VIP como se muestra en la imagen.

- Chatura -
i Registration completed successfully
Smart Software Licensing Product Registration
To register the product for Smart Software Licensing:
Paste the Product Instance Registration Token you generated from Smart Software Manager or your Smart Software Manager satellite

10. Nombre de la instancia del producto: cucm-pub-30 se ha registrado correctamente con SSM On-Prem con el uso de una dirección VIP como se muestra en la imagen.

Cisco Unified CM Administr Cisco Unified Communications Solution	ration ^s		
System - Call Routing - Media Resources - Advanced F	eatures - Device - Application -	User Management 💌 Bulk Administration 👻 Help 💌	
License Management			
- Status			
Smart Software Licensing: The system is operating w	ith an insufficient number of licenses.	Configure additional licenses in Smart Software Manager within 72 days to a	woid losing the ability to provision users and devices.
Smart Software Licensing			
Registration Status		Registered	
License Authorization Status		Out of Compliance (Sunday, June 20, 2021 10:29:53 PM EEST)	
Smart Account		annanr-ssm-on-prem-8-202105	
Virtual Account		Default	
Product Instance Name Expert-Controlled Euroctionality		cucm-pub-30 Allowed	
Transport Settings		Transport Gateway View/Edit the Licensing Smart Call Home settings	
Licensing Mode		Enterprise	
Below is a summary of current license usage on the st deployment. View All License Type Descriptions And Device Classification (Update Usage Details) Usage Details Last Updated: 2022 License Reconference by Type	ystem. Current usage details for each	type are available by pressing "Update Usage Details". Note that collecting	these data is a resource intensive process and may take several
License Requirements by Type	Current lines	Findows	
CUWL	D	No Licenses in Use	Users(0) Unassigned Devices(0)
Enhanced Plus	0	No Licenses in Use	Lisers(0)
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Basic	2	3 Out of Compliance	Users(1) Unassigned Devices(1)
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Users and Unassigned devices			
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11. Se registran dos nuevas instancias de productos (pi37) y (cucm-pub-30) en la dirección VIP de SSM On-Prem como se ve en la pestaña **Instancias de producto**.

12. La licencia consumida/solicitada por estas instancias del producto se refleja en la pestaña **Licencia**.

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13. Inicio del clúster HA en el servidor primario.



14. El estado del clúster de HA muestra que la base de datos principal se replica desde la base de datos secundaria.

15. Primario|Secundario como se muestra en la imagen.



16. La GUI muestra el latido como conectado, Secundario en estado Activo y Primario en estado En espera como se muestra en la imagen.



Reserva

1. Deteniendo Ha_cluster en secundario.

2. Se puede ver el estado actual de la base de datos del servidor primario y de la base de datos del servidor secundario.



3. Inició sesión en la GUI en las instalaciones de SSM con VIP (.14) y la GUI secundaria está inactiva.

- 4. El servidor principal (.11) se muestra como servidor activo.
- 5. El latido se desconecta.
- 6. El servidor secundario (.9) pasó al estado En espera.



7. Se podrá acceder a la GUI desde la dirección VIP (.14) en esta etapa y no desde la dirección IP secundaria.

8. Inicio del clúster HA en el servidor secundario.



9. El estado HA del clúster muestra que la base de datos del servidor primario (Replication Master) a la izquierda se replica a la base de datos del servidor secundario (Replication Slave) a la derecha como se esperaba.

PCSD Status: primery-mode: Online secondary-mode: Online	PCD Status: secondary-mode: Online primary-mode: Online
Daemon Status: corosync: active/enabled pscemaker: active/enabled psd: active/enabled Last login: Sun Jun 20 19:00:59 UTC 2021 on pts/0	Daemon Status: corosync: active/enabled pacemaker: active/enabled pssd: active/enabled Last login: Sun Jun 20 19:04:47 UTC 2021 on pts/0
Database Replication Status:	Database Replication Status:
Database is currently the replication master - Replicating to secondary-node (.9)	Database is currently the replication slave - Replicating from primary-node (11)
Replication to slave: client_addr backend_start state write_lag flush_lag replay_lag	Replication to slave: client_addr backend_start state write_lag flush_lag replay_lag
160-254.0.2 2021-06-20 19:01:56.616211+00 streaming 0 0 0 (1 row)	Replication from master: pg_last_xlog_replay_location
Replication from master: pg_lst_xlog_replay_location	0/1000000 (1 row)

10. La GUI muestra Heartbeat conectado entre el servidor primario activo y el servidor secundario en espera.



11. Las cuatro instancias de producto registradas en la dirección VIP de SSM On-Prem como se ve en la pestaña **Instancias de producto**.

12. La licencia consumida/solicitada por estas instancias del producto se refleja en la pestaña **Licencia**.

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cucm-pub-30	UCL	2021-Jun-20 19:28:51		Actions
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Reducir un clúster de alta disponibilidad

- 1. Un clúster in situ de Cisco Smart Manager se puede degradar directamente a un solo nodo independiente.
- 2. Utilice la consola en las instalaciones para conectarse al SSM principal/activo en las instalaciones con el comando <ha_teardown>.
- 3. Después de verificar la operación de SSM On-Prem, el servidor secundario/en espera se debe descartar y no se puede reutilizar.
- 4. Ahora tendrá un sistema independiente en lugar de un clúster.
- 5. La eliminación se ha iniciado como se muestra en la imagen.



6. Desencadenando la desactivación en el servidor secundario como se muestra en la imagen.

```
Database Replication Status:
Database is currently the replication slave - Replicating from primary-node (
client_addr | backend_start | state | write_lag | flush_lag | replay_lag
(0 rows)
Replication from master:
pg_last_xlog_replay_location
0/9000D30
Last login: Wed Sep 2 11:12:42 UTC 2020 on pts/0
and convert this service node into stand-alone mode without a cluster.
This script operates on the local service node and will not
Adjusting firewall...
success
The interface is under control of NetworkManager, setting zone to default.
success
Destroying HA cluster...
Stopping Cluster (pacemaker)...
Stopping Cluster (corosync)...
Shutting down pacemaker/corosync services...
Killing any remaining services...
Removing all cluster configuration files...
Disabling HA services.
Removed symlink /etc/systemd/system/multi-user.target.wants/pcsd.service.
Stopping SSH tunnel
Cleaning up...
atlantis_default
rvice.
Deleting SSH tunnel user...
HA cluster has been destroyed. SSMS is now in stand-alone mode.
```

7. El clúster de HA ha sido destruido. SSMS está ahora en modo autónomo.



8. La GUI a la que se accede con el uso de la dirección IP del servidor secundario ya no nieva el widget de alta disponibilidad.

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Smart So	ftware Manage	er On-Prem								System Health Good	
	Sy Sy	ynchronization				Your machine is working well Server Name CentOS					
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	•	Name	Satellite Name	Last Synchronization	Synchroniz					RAM	~
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9. Desencadenando la desactivación en el servidor primario como se muestra en la imagen.



10. HA se ha inhabilitado correctamente.

UN



11. La GUI a la que se accede con el uso de la dirección IP del servidor principal ya no nieva el widget de alta disponibilidad.

ululu cisco										Loggi	id In 📔 Accou	nt Log Out	
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	Center	TEST		TEST	2020-Sep-02 07:	35:42	2020-Oct-02 07:35:42	Synchronization Successful	Actions		ens192	• 1 • Alerte	1943.5 KB/s ↓ 429 KB/s
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				IPv6 Address	•	Prefix		-					
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¡¿Qué sigue?!

1. Inicie sesión en SSM On-Prem Primary **Administration Workspace**, navegue hasta **Security > Certificates** y utilice el servidor primario (dirección IP/nombre de host/FQDN) en Host Common Name.

2. Después de actualizar el nombre común de host, asegúrese de que los certificados se regeneran con el nuevo nombre común sincronizando las cuentas locales con Cisco SSM.

3. Debe sincronizar antes de intentar volver a registrar los productos con el nuevo nombre común en la configuración de URL de destino.

4. Si no se sincroniza, los productos no se pueden registrar con el nuevo nombre común de host.

Información Relacionada

- Guía de consola: <u>https://www.cisco.com/web/software/286285517/151968/Smart_Software_Manager_On-</u> <u>Prem_8_Console_Guide.pdf</u>
- Guía del usuario:

https://www.cisco.com/web/software/286285517/151968/Smart_Software_Manager_On-Prem_8_User_Guide.pdf

- Guía de instalación: <u>https://www.cisco.com/web/software/286285517/152313/Smart_Software_Manager_On-</u> <u>Prem_8-202006_Installation_Guide.pdf</u>
- Soporte Técnico y Documentación Cisco Systems