

Cisco DNA Spaces:コネクタ AMI

• Cisco DNA Spaces:コネクタ AMI のダウンロードと展開 (1ページ)

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この章では、Cisco DNA Spaces:コネクタをダウンロードして展開し、コネクタ GUI の URL を取得する方法について説明します。

- **ステップ1** Amazon Web Services アカウントにログインし、[EC2 Dashboard] に移動します。左側のナビゲーションペインで、[Images] > [AMI] の順に選択します。
- ステップ2 検索バーで [Public Images] をクリックし、AMI ID ami-085e8427e0f51c7d6 を検索するか、 「cisco-dna-spaces-connector」と入力します。



- ステップ3 表示されたイメージをクリックし、[Launch] をクリックします。
- ステップ4 対応する [Type] が [t2.medium]、[vCPU] の値が [2]、[Memory (GB)] が [4] のインスタンスを選択します。

[t2.medium] は、2 vCPU と 4 GB のメモリを備えた標準の Cisco DNA Spaces: コネクタ に対応しており、 推奨される設定です。次に [Next: Configure Instance Details] をクリックします。

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Starbart Stypes Stimuted to fit different use cases. Instances are windle servers that can nun applications. They have varying combinitions of CPU, memory, storage, as capacity, and give to the foldible to choose the approximate time of resources for your applications. Learn more allow understores types and how they can meet your computing meets. Remarks and give you the fieldible to choose the approximate mix of resources for your applications. Learn more allow understores types and how they can meet your computing meets. Remarks and give you the fieldible to choose the approximate mix of resources for your applications. Learn more allow understores types and how they can meet your computing meets. Remarks and give you the fieldible to choose the approximate to mix of CPU, memory. ESCUE, 2 vCPUs, 2 v						7. Review	gure Security Group	6. Confi	5. Add Tags	4. Add Storage	3. Configure Instance	2. Choose Instance Type	1. Choose AMI																																										
Filter by: All instance types Current generation Show/Hide Culture Beneration (Variable Culture): Show/Hide Culture): Pennity Type VCPUs Memory (OB) Instance (BB) EBS-Onfinized Available Network Performance Instance General purpose 12.mmon 1 0.5 EBS only General purpose Low to Moderate General purpose 12.mmon 1 2 EBS only General purpose Low to Moderate General purpose 12.mmon 1 2 EBS only General purpose Low to Moderate General purpose 12.mmon 1 2 EBS only General purpose Low to Moderate General purpose 12.mmon 1 2 EBS only General purpose Low to Moderate General purpose 12.mmon 1 2 BS only General purpose Low to Moderate General purpose 12.amg 2 8 EBS only General purpose Low to Moderate General purpose 12.amg 2 8 EBS only General purpose Moderate	nd networking	mernory, storage, ar	ions of CPU, n needs.	ing combina ur computing	ons. They have varying w they can meet your c	n run applicati types and ho	tual servers that car ore about instance	es are vir Learn m	cases. Instance our applications.	id to fit different use k of resources for yc	nce Type nstance types optimiz ose the appropriate m	choose an Insta rovides a wide selection of ive you the flexibility to ch	Step 2: C Amazon EC2 pr capacity, and g																																										
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	Yes	Up to 5 Gigabit		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		nly	EBS on		0.5	2	t3a.nano	General purpose																											
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- (注) より高性能な vCPU およびメモリ構成のオプションを選択して、さらに高度な構成を選択する ことも可能です。次の構成のインスタンスタイプを選択できます。完全一致が使用できない場 合は、次に使用可能な vCPU またはメモリの構成を選択できます。
 - •4 vCPU および 8 GB メモリ(このドキュメントでの呼称は Advanced1)
 - •8 vCPU および 16 GB メモリ(このドキュメントでの呼称は Advanced2)
- **ステップ5** [Network] と [Subnet] を選択します。 [Next: Add Storage] をクリックします。 図1:インスタンスの詳細設定

aws	Services ~	Res	ource Groups 🗸	*						۵	samkhand 👻	N. Virginia 👻	Support 👻
1. Choose AMI	2. Choose Instance	Туре	3. Configure Instance	4. Add Storage	5. Add Tags 6. C	onfigu	re Security Group 7.	Review					
Step 3: Co Configure the inst more.	onfigure Ins ance to suit your r	tanc	e Details ents. You can launch m	nultiple instances	from the same AMI, rea	quest	Spot instances to tak	e advantage o	of the lower pr	icing, assig	n an access ma	nagement role t	o the instance, and
	Number of instar	nces (1		Launch into Auto Sca	ling G	aroup (j)						
	Purchasing op	otion (Request Spo	ot instances									
	Netv	work (vpc-9c0410e6	(default)	\$	C	Create new VPC	1					
	Sul	bnet (i) No preference	(default subnet in	any Availability Zon 🕈)	Create new subnet						
	Auto-assign Publ	ic IP 🧃	Use subnet se	tting (Enable)	\$								
	Placement g	roup (Add instance	e to placement gr	oup								
	Capacity Reserva	ation (Open		\$	C	Create new Capaci	ty Reservation					
	IAM	role	None		\$	C	Create new IAM role						
	Shutdown beha	avior (Stop		\$								
Stop	- Hibernate beha	vior (i) Enable hiber	mation as an addi	tional stop behavior								
Enable to	ermination protec	tion (i) Protect agai	nst accidental ten	mination								
	Monito	oring (Enable Clou Additional char	dWatch detailed r ges apply.	nonitoring								
	Tena	ancy (Shared - Run a Additional char	a shared hardware ges may apply wi	e instance 🔹) d inst	tances.						
									Cancel	Previous	Review an	d Launch	Next: Add Storage

ステップ6 [Size (GB)] の値に「60」と入力します。[Next: Add Tags] をクリックします。

Cancel Previous Review and Launch Next: Add Tags

図 2:ストレージの追加

aws	Services ~ I	Resource Groups 🗸	*					۵	samkhand 👻 N. Virg	jinia 🖌 Support 🧃
. Choose AMI	2. Choose Instance Type	a 3. Configure Instance	4. Add Storage	5. Add Tags	6. Configure Security Group	7. Review				
tep 4: Ac ur instance wil it the settings orage options i	I be launched with the f of the root volume. You n Amazon EC2.	following storage device s can also attach additiona	ettings. You can a I EBS volumes aft	ttach additional E er launching an ir	EBS volumes and instance store istance, but not instance store	e volumes to volumes. Les	your instance, arn more abou	Dr		
olume Type	Device () Snapshot ()	s	ize (GiB) 🕕	Volume Type ()		IOPS ()	Throughput (MB/s) i	Delete on Termination	Encryption ()
Root	/dev/sda1	snap-098aa2f0c	d2cb81d2b	10	General Purpose SSD (gp	2) 🗸	180 / 3000	N/A	0	Not Encrypte 🔻
Eree tier eliei	ble customers can get i	up to 30 GB of EBS Gene	ral Purpose (SSD)	or Magnetic stor	age. Learn more about free us	age tier eligib	ility and			

ステップ7 [click to add a Name tag] をクリックします。名前を入力してから、[Next: Configure Security Group] をクリックします。

図 **3**:タグの追加

aws	Services - F	Resource Groups 🗸	*			\$	samkhand 👻	N. Virginia 👻
1. Choose AMI	2. Choose Instance Type	3. Configure Instance	4. Add Storage 5. Add T	fags 6. Configure Security Group	7. Review			
tag consists copy of a tag ags will be ap	Add Tags of a case-sensitive key-va g can be applied to volume plied to all instances and	lue pair. For example, you is, instances or both. volumes. Learn more abu	u could define a tag with key out tagging your Amazon EC	y = Name and value = Webserver. C2 resources.				
Key (128	characters maximum)		Value (2	256 characters maximum)		Instance	s () Volu	mes (i)
			This resou Choose the Add tag Make sure your IAM poli	urce currently has no tags button or <u>click to add a Name tag</u> icy includes permissions to create	tags.			
Add Tag	(Up to 50 tags maximum	0						

図 4: タグ名の入力

aws	Services ~	Resource Groups 👻	*							¢	samkhand 🛩	N. Virginia 👻	Support 👻
1. Choose AMI 2	2. Choose Instance Ty	pe 3. Configure Instance	4. Add Storage 5.	Add Tags	6. Configure Se	ecurity Group	7. Review						
Step 5: Adc A tag consists of a c A copy of a tag can Tags will be applied	I Tags case-sensitive key- be applied to volu to all instances an	value pair. For example, you mes, instances or both. d volumes. Learn more abo	u could define a tag wi but tagging your Amazi	th key = Na on EC2 res	ame and value = sources.	= Webserver.							
Key (128 chara	cters maximum)		Value	(256 cha	aracters maximu	m)			1	nstances	i) Volume	s ()	
Name			Conner	ctor-AM(2		8	
Add another tag	(Up to 50 tag	s maximum)											
							Ca	incel	Previous	Review a	ind Launch	Next: Configur	e Security Group

- **ステップ8** 次の手順に従って、セキュリティグループを設定します。
 - a) 該当するオプションボタンをクリックして、新しいセキュリティグループを作成するか、既存のセ キュリティグループを変更します。

図 5: セキュリティグループの設定

aws	Services - Re	source Groups 🗸	*					۵	samkhand 👻	N. Virginia	a ▼ Support ▼
1. Choose AMI	2. Choose Instance Type	3. Configure Instance	4. Add Storage	5. Add Tags	6. Configure Security Group	7. Review					
Step 6: Co A security group i Internet traffic to groups.	is a set of firewall rules the reach your instance, add	ty Group at control the traffic for y rules that allow unrestric	your instance. On cted access to the	this page, you HTTP and HT	can add rules to allow specific IPS ports. You can create a n	c traffic to reach ew security grou	your instance. For e p or select from an	example existing	, if you want to one below. Le	set up a web arn more abo	server and allow ut Amazon EC2 security
	Assign a security gr	oup: O Create a new se Select an existi	ecurity group ing security group	,							
Security	Group ID	Name		Descript	ion						Actions
sg-0ae478	2a	default		default VP	C security group						Copy to new
sg-0067eb6	643a6a6d3d3	launch-wiz	ard-2	launch-wiz	ard-2 created 2020-05-07T09	12:42.770-07:00)				Copy to new
									Cancel	Previous	Review and Launch

b) インバウンドトラフィックのルールを使用してポートを設定します。特定の IP アドレスに対して制限するか、あるいはすべての IP アドレスに対して開いたままにするかを選択できます。
 インバウンドトラフィックのルールを使用して、イメージに表示される特定のポートを設定します。

aws Services ~	Resource Groups 🗸	*			🗘 samkhand 🕶 N. Virginia 👻 Support 👻
New EC2 Experience Tell us what you think	Inbound rules C	Outbound rules Tags			
Instance Types Launch Templates Spot Requests	Inbound rules				Edit inbound rules
Savings Plans	Туре	Protocol	Port range	Source	Description - optional
Reserved Instances Dedicated Hosts New	HTTP	TCP	80	0.0.0.0/0	
Scheduled Instances	HTTP	TCP	80	::/0	
Capacity Reservations	Custom TCP	TCP	8004	0.0.0.0/0	
▼ IMAGES AMIs	Custom TCP	TCP	8004	::/0	
Bundle Tasks	Custom TCP	TCP	8000	0.0.0.0/0	-
ELASTIC BLOCK	Custom TCP	TCP	8000	::/0	
Volumes	SSH	TCP	22	0.0.0.0/0	
Snapshots	SSH	TCP	22	::/0	
Lifecycle Manager	HTTPS	TCP	443	0.0.0.0/0	
SECURITY	HTTPS	TCP	443	::/0	
Elastic IPs New	All ICMP - IPv4	ICMP	All	0.0.0/0	
Placement Groups New	All ICMP - IPv4	ICMP	All	::/0	
Key Pairs New					
Notwork Interfaces					

図 6:インバウンドトラフィックのルールによるポートの設定

c) アウトバウンドトラフィックのルールを使用してポートを設定します。次の図に示すアウトバウンドルールを設定します。

aws Services 👻 Resource Groups 👻 🏌 New EC2 Expe EC2 > Security Groups > sg-0067eb643a6a6d3d3 - launch-wizard-2 Delete security group Copy to new security group Instance Types sg-0067eb643a6a6d3d3 - launch-wizard-2 Launch Templates Details Spot Requests Savings Plans VPC ID Security group name curity group ID escription Reserved Instances 🗗 vpc-9c0410e6 🔼 Iaunch-wizard-2 created 2020-05-07T09:12:42.770-07:00 launch-wizard-2 sg-0067eb643a6a6d3d3 Dedicated Hosts New Scheduled Instances Capacity Reservations Inbound rules count Outbound rules count 12 Permission entries **660552087796** ▼ IMAGES 1 Permission entry AMIs Bundle Tasks Inbound rules Outbound rules Tags ELASTIC BLOCK STORE Volumes Outbound rules Edit outbound rules Snapshots Lifecvcle Manager Туре Protocol Port range Destination Description - optional NETWORK & SECURITY All traffic All All 0.0.0.0/0 Security Groups New Elastic IPs New Placement Groups New Key Pairs New

図 7:アウトバウンドトラフィックのルールを使用したポートの設定

- (注) さまざまなサービスを機能させるために開く必要があるポートの詳細については、オープ ンポートに関する情報(ワイヤレス)を参照してください。
- d) [Review and Launch] をクリックします。



図8:インスタンスの確認と起動

	aws Service	s v Resou	ırce Groups 🗸	*				۵	samkhand 👻	N. Virginia 👻 S	upport 👻
1. 0	hoose AMI 2. Choose Ins	stance Type 3.	Configure Instance	e 4. Add Storage	5. Add Tags	i. Configure Security Group	7. Review				
Ste	ep 7: Review Ins	stance La	unch								Edit AMI
_ 1	ConnectorAl AMI for Connec Root Device Type:	MI-2.2.31.37-15 tor v2.2.31.37 ebs Virtualization	5 - ami-079c23	a76df45ef0c						5-04 J	
* 1	nstance Type									Edit i	Instance type
	Instance Type	ECUs	vCPUs	Memory (GiB)	Instance St	orage (GB)	EBS-Optimized Avail	able	Network Perform	ance	
	t2.medium	Variable	2	4	EBS only		-		Low to Moderate		
¥ (Security Groups									Edit se	curity groups
	Security Group ID		Name	9		Descr	iption				
	sg-0067eb643a6a6d3d3		launch	wizard-2		launch-v	vizard-2 created 2020-0	5-07T09:12:42.770	07:00		
	All selected security gro	ups inbound ru	les								
	Type ()		Protocol (i)		Port Range	D	Source ()		Description (i)		
	HTTP		TCP		80		0.0.0.0/0				
	HTTP		TCP		80		::/0				
	Custom TCP Rule		TCP		8004		0.0.0/0				
	Custom TCP Rule		TCP		8004		::/0				
									0	Cancel Previous	Launch

- **ステップ10** 表示される [Select an existing key pair or create a new key pair] ダイアログボックスで、次のいずれかを実行 できます。
 - ・ドロップダウンリストから [Create a new key pair] を選択します。 [Key pair name] を入力し、[Download Key Pair] をクリックしてダウンロードします。 [Launch Instance] をクリックしてインスタンスを起動します。
 - ・ドロップダウンリストから [Choose an existing key pair] を選択します。[Select a key Pair] ドロップダウンリストから、以前にダウンロードしたキーペアを選択します。[Launch Instance] をクリックしてインスタンスを起動します。
 - 図 9:新しいキーペアの作成

All selected security groups	ance Launch				
Туре ()	Protoco		Description (i)		
HTTP	TCP	Select an existing key pair or create a new key pair ×			
HTTP	TCP				
Custom TCP Rule	TCP	A key pair consists of a public key that AWS stores, and a private key file that you store. Together,			
Custom TCP Rule	TCP	they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to			
Custom TCP Rule	TCP	securely SSH into your instance.			
Custom TCP Rule	TCP				
SSH	TCP	Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI			
SSH	TCP				
HTTPS	TCP	Create a new key pair			
HTTPS	TCP	Key1			
All ICMP - IPv4	All	Download Key Pair			
All ICMP - IPv4	All				
Instance Details		You have to download the private key file (",pern file) before you can continue. Store it in a secure and accessible location. You will not be able to download the file again after it's created.		Edit instance det	ails
 Storage 				Edit stora	lge
h Terre		Cancel Launch Instances		Editor	

図 10: 既存のキーペアの選択

2. Choose Instance Type			44			
p 7: Review Instance I	0.000	landaran di Add Barana di Add Tara di Dandaran Garanda Danar di Kari				
p 7: Review Instance I	3. Configure	Instance 4. Add Storage 5. Add Tags 6. Contigure Security Group 7. Review				
	_aunch					
Il selected security groups inbound	d rules					
- 0						
Туре ()	Protoco	Select an existing key pair or create a new key pair		Description (1)		
HTTP	TCP	Select an existing key pair of create a new key pair	^			
HTTP	TCP	A key pair consists of a public key that AWS stores, and a private key file that you store. Together,				
Custom TCP Rule	TCP	they allow you to connect to your instance securely. For Windows AMIs, the private key file is required	d			
Custom TCP Rule	TCP	to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you	to			
Custom TCP Rule	TCP	securely SSM into your instance.				
Custom TCP Rule	TOP	Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more				
100	TCP	about removing existing key pairs from a public AMI.				
HTTPS	TCP	Choose an existing key pair v				
HTTPS	TCP	ConnectorAMI V				
All ICMP - IPv4	All	I acknowledge that I have access to the selected private key file (ConnectorAMI nam) and				
All ICMP - IPv4	All	that without this file, I won't be able to log into my instance.				
	7.6	· · · · · · · · · · · · · · · · · · ·	_			
		Cancel Launch Instances				
stance Details						Edit instance del
orage						Edit stor
ags						Edit t
aws Services - I	Resource G	iroups v 🔭	¢	samkhand 👻	N. Virginia	✓ Support ✓
aws services v / 1. Choose AMI 2. Choose Instance Type Step 3: Configure Instan	Resource G 3. Config	arcups 🗸 🖈 gure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review allS	۵	samkhand 👻	N. Virginia	▼ Support ▼
Services Services Step 3: Configure Instance Type Onfigure the instance to suit your requirered	3. Config	arcoups	¢	samikhand v	N. Virginia agement role	 Support to the instance, and
Services Choose AM Choose Instance Type Configure Instan ore Number of instances	Resource G 3. Config nce Deta rements. You	arroups	Cing, assig	samkhand v	N. Virginia agement role	 Support * to the instance, and
Services	Resource G 3. Config nce Det rements. You 1 1		<u>ې</u>	samkhand 👻	N. Virginia agement role	Support Support
Services v 1. Choose AMI 2. Choose Instance Type tep 3: Configure the instance to suit your requir ore. Number of instances Purchasing option Network	Resource G 3. Config nce Det rements. You () () () ()		۵ cing, assig	samkhand ¥	N. Virginia agement role	 Support to the instance, and
Services Services Services Conservices Services Configure Instances Number of instances Purchasing option Network	Resource G 3. Config nce Det () [] () [] () [] () [] () [] () [] () [] () []		Cing, assig	samkhand v	N. Virginia agement role	Support Support
Services Services Services Choose Mail Choose Mail Choose Mail Choose Instance Type Services Vumber of Instances Purchasing option Network Subnet	Resource G 3. Config nce Det. () () () () () () () () () () () () ()	aroups	Cing, assig	samkhand 👻	N. Virginia agement role	 Support < to the instance, and
Services Services Services Services Step 3: Configure Instance Type Step 3: Configure Instance Number of Instances Purchasing option Number of Instances Purchasing option Letwork Submet Auto-assign Public IP	Resource G 3. Config nce Det rements. You () () () () () () () () () ()		Cing, assig	samkhand 👻	N. Virginia agement role	 Support to the instance, and
Services Services	Resource G 3. Config nce Det (0) 1 (0) 1		Cing, assig	samkhand ¥	N. Virginia agement role	 Support to the instance, and
Services Services Conservices Conservices Configure the Instance Services Number of Instances Purchasing option Retwork Subnet Auto-assign Public IP Placement group Capacity Reservator	Resource G 3. Config nce Det () (ے	samkhand +	N. Virginia agement role	 Support * to the instance, and
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ステップ11 キーペア (.pem) ファイルをシステムにダウンロードしたら、ファイルの場所に移動します。chmod コ マンドを使用して、.pem ファイルに対する適切な権限を設定します。

chmod 400 /path/to/MyAccessKey1.pem

ステップ12 EC2ダッシュボードで、インスタンスの起動が完了し、ステータスが[Running]に変わるまで待ちます。 または、[Instances] ページで実行中のインスタンスを確認できます。インスタンスをクリックして、CLI の起動に使用する IPv4 アドレスを取得します。取得した時点で設定を完了できます。

図 11: [Instances] ページと IPv4 アドレス

aws Services	- Resource Groups 👻 🕇					🗘 samkha	ind 👻 N. Virginia	 Support 	
New EC2 Experience Tell us what you think	Launch Instance 👻 Conn	Actions *						4 0-	¢ 0
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Reports	Con-ami-29May	4	-01943827801038482	tz.micro	us-east-1e	running	2/2 checks	None	,ŏ e
Limits									
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Scheduled Instances	Instance: 1-01943a27ab1b364c	2 (con-ami-29May) Public	DNS: ecz-	compute-1.a	imazonaws.com			-	
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AMIs	Instance state	running			IPv4 Public IP	-			
Bundle Tasks	Instance type	t2.micro			IPv0 IPa				
ELASTIC BLOCK	Finding	Opt-in to AWS Compute Optin recommendations. Learn more	imizer for re		Elastic IPs				
Volumes	Private DNS	ip-	al		Availability zone	us-east-1e			
Snanshots	Private IP:				Security groups	launch-wizard-2. outbound rules	view inbound rules, vi	5W	
Lifequele Manager	Secondary private IPs				Scheduled events	No scheduled ev	ents		
Lifecycle Manager	VDC II	VDC-9c041066			AMUD	Connector/ML-2	2 20 26-14 (ami-		

- ステップ13 初期設定を実行してホスト名を設定し、dnasadmin ユーザと root ユーザのパスワードを変更します。
 - a) SSH コマンド、手順 12 で取得した IPv4 アドレス、および手順 10 でダウンロードしたキーペアを使 用して、コネクタ にログインします。

ssh -i /path/to/key/MyAccessKey1.pem dnasadmin@IPv4 address

b) root ユーザと dnasadmin ユーザのユーザ名とパスワードを変更します。最初のログインユーザ名 dnasadmin とログインパスワード dnasadmin123! を使用します。

次のパスワード要件に従うことで、「不適切なパスワード」プロンプトを回避できます。

- パスワードは14文字を超える長さにする必要があります。
- パスワードには少なくとも1つの大文字を含める必要があります。
- パスワードには少なくとも1つの小文字を含める必要があります。
- パスワードには少なくとも1つの特殊文字を含める必要があります。

次に、SSH コマンドの出力例を示します。

```
ssh -i /path/to/key/MyAccessKey1.pem dnasadmin@10.1.1.1
Password:
WELCOME to DNA SPACES CONNECTOR SETUP
Please enter hostname: my-connector-ami
Change passwords for root and dnasadmin
Changing password for user root.
New password:
BAD PASSWORD: The password is shorter than 14 characters
Retype new password:
passwd: all authentication tokens updated successfully.
Changing password for user dnasadmin.
New password:
BAD PASSWORD: The password is shorter than 14 characters
Retype new password:
passwd: all authentication tokens updated successfully.
Generating self-signed certificates ...
Setup is complete
```

System will reboot in 10 seconds ... Connection to 10.1.1.1 closed by remote host. Connection to 10.1.1.1 closed.

- ステップ14 ブラウザウィンドウとアドレス https://*IPv4* アドレスを使用して Cisco DNA Spaces:コネクタ GUI にログ インします。
- ステップ15 SSH ユーザ名 dnasadmin と手順 13 で設定したこのユーザのパスワードを使用して、Cisco DNA Spaces: コネクタ CLI にログインします。

ssh dnasadmin@10.1.1.1

次のタスク

Cisco DNA Spaces でのコネクタの設定