رماوألا ضيوفتو +TACACS ةقداصم :ACS 5.x ةعومجم ةيوضع نيوكت لاثم ىلإ ادانتسا تانالعإلاا

تايوتحملا

<u>قمدقملا</u> <u>قيساسألاا تابلطتملا</u> <u>تابلطتملا</u> <u>مدختسملا تانوكملا</u> <u>تاحالطصالا</u> <u>ضيوفتلاو ةقداصمل ل ACS 5.x نيوكت</u> <u>ضيوفتلاو ةقداصمل ل Cisco IOS زامج نيوكت</u> <u>قرصلا نم ققحتلا</u>

ةمدقملا

ةيوضع ىلإ ادانتسا رماوألا ضيوفتو +TACACS ةقداصم نيوكتل الاثم دنتسملا اذه مدقي 5.x رادصإلا Cisco نم (ACS) نمآلا لوصولا يف مكحتلا ماظن مادختساب مدختسمل AD ةعومجم نيزختل يجراخ ةيوه نزخمك Microsoft نم ACS Active Directory (AD مدختسي .ثدحألا تارادصإلاو .تامسلاو تاعومجملاو ةزهجألاو نيمدختسملا لثم دراوم

ةيساسألا تابلطتملا

تابلطتملا

نيوكتلا اذه ءارجإ لواحت نأ لبق ةيلاتلا تابلطتملا ءافيتسا نم دكأت:

 ، بوغرملا AD لاجم عم ACS جمد متي مل اذإ .بوغرمل AD لاجم يف لماكلاب جمدم ACS 5.x ما يف لماكل اب جمدم ACS 5.x ما يفرمل AD لاجم يف لماكل اب جمدم ACS 5.x ما يفرمل AD لاجم يف لماكل الماكت الما ماكن ماكت الماكت ماكت ماكت ماكت ماكت ماكت ماكت الماكت ماكت ماكت ما

ةمدختسملا تانوكملا

ةيلاتلا ةيداملا تانوكملاو جماربلا تارادصإ ىلإ دنتسملا اذه يف ةدراولا تامولعملا دنتست:

- Cisco Secure ACS 5.3 •
- .Cisco نم IOS[®] رادصإلا IOS[®] دانرب

.Cisco IOS ةزەجأ عيمج ىلع نيوكتلا اذه ذيفنت نكمي :ةظحالم

• Microsoft Windows Server 2003 لااجم

.ةصاخ ةيلمعم ةئيب يف ةدوجوملا ةزهجألا نم دنتسملا اذه يف ةدراولا تامولعملا ءاشنإ مت تناك اذإ .(يضارتفا) حوسمم نيوكتب دنتسملا اذه يف ةمدختسُملا ةزهجألا عيمج تأدب .رمأ يأل لمتحملا ريثأتلل كمهف نم دكأتف ،ةرشابم كتكبش

تاحالطصالا

<u>تاحالطصا لوح تامولعملا نم ديزم ىلع لوصحلل ةينقتلا Cisco تاحيملت تاحالطصا عجار</u> <u>.تادنتسملا</u>

نيوكتلا

ضيوفتلاو ةقداصملل ACS 5.x نيوكت

عم حاجنب ACS جمد بجي ناك ،ضيوفتلاو ةقداصملل ACS 5.x نيوكت يف ءدبلا لبق <u>:ثدحالا تارادصال او ACS 5.x</u> ىلإ عجرا ،بوغرملا AD لاجم عم ACS جمد متي مل اذإ .Microsoft AD تامولعملا نم ديزم ىلع لوصحلل <u>Microsoft Active Directory نيوكت لاثم عم لماكتل</u> .لماكتلا ةمهم ذيفنتل

يفيصوتو نيتفلتخم رماوأ يتعومجم ىلإ نالعإ يتعومجم ةمجرتب موقت ،مسقلا اذه يف .Cisco IOS ةزهجأ ىلع دودحملا لوصولاب ىرخألاو لماكلا لوصولاب امهادحإ ،Shell

دامتعا تانايب مادختساب (ACS) ةيموسرلا مدختسملا ةهجاو ىلإ لوخدلا ليجستب مق. لوؤسملا

رتخأ Users and Identity Stores (قيوەلا رجاتمو نيمدختسملا) Users and Identity Stores رتخأ ىلإ ACS مامضنا نم ققحتو (طشنلا ليلدلا) Active Directory < (قيجراخلا قيوەلا نزاخم) قلصتم اەنأ ىلع لاصتالا قلاح راەظإ نم كلذكو بولطملا لاجملا.

"لئالدلا تاعومجم بيوبتلا ةمالع قوف رقنا".

Use	Users and Identity Stores > External Identity Stores > Active Directory							
	General Directory Groups Directory Attributes							
	Connection Details MCS55.com							
	Please specify the credentials used to join this machine to the Active Directory Domain: O Username: training O Password: ••••••••••••••••••••••••••••••••••••							
	You may use the Test Connection Button to ensure credentials are correct and Active Directory Domain is reachable. Test Connection							
l	Click on 'Save Changes' to connect to the Active Directory Domain and save this configuration. Once you have success can select the Directory Groups and Directory Attributes to be available for use in policy rules.							
	End User Authentication Settings							
	 Enable password change Enable machine authentication 							
	Enable Machine Access Restrictions							
	Connectivity Status Joined to Domain:mcs55.com Connectivity Status:CONNECTED							
5	ave Changes Discard Changes Clear Configuration							

.3.ديدحت قوف رقنا

Users and Iden	tity Stores > External Io	lentity Stores > Active Directory
General	Directory Groups	Directory Attributes
Directory g policy rule	groups must be select s. Click 'Select' to lau	ed on this page to be available as options in group mapping conditions in nch a dialog to select groups from the directory.
Selected D	Directory Groups:	
Group Na	ime	
Add A Group Nar	Edit V Re	place A Deselect
Example for cisco.com	or group format : /Users/Domain Users	
= Requir	ed fields	
Save Change	es Discard Chan	ges Clear Configuration

.4رماوألا تاعومجمو Shell صيصخت تافلم ىلا ةنيعم نوكت نأ جاتحت يتلا تاعومجملا رتخأ OK. قوف رقناو .نيوكتلا نم ثدحألا ءزجلا يف

Exte	rnal User G	Groups							
Searc	h Base DN	DC=MCS55,DC=com							
Searc	h Filter	Go							
	Group N	lame Group Type							
	MCS55.c	com/Users/Domain Guests GLOBAL	^						
	MCS55.c	com/Users/Network Admins GLOBAL		=					
- V	MCS55.c	com/Users/Network Maintenance Team GLOBAL							
	MCS55.c	com/Users/Schema Admins UNIVERSAL	-						
Ск ()	OK Cancel Database: Active Directory Use * for wildcard search (i.e. admin*)								
	Searc	ch filter applies to group name and not the fully qualified path.		-					

.5.تارييغتلا ظفح قوف رقنا

Users and Identity Stores > External Identity Stores > Active Directory	
General Directory Groups Directory Attributes	
Directory groups must be selected on this page to be available as options in group mapping conditions in policy rules. Click 'Select' to launch a dialog to select groups from the directory.	
Selected Directory Groups:	
Group Name	
MCS55.com/Users/Network Admins	
MCS55.com/Users/Network Maintenance Team	
-	
Add A Edit V Replace A Deselect Select	
Group Name	
Example for group format : cisco.com/Users/Domain Users	
Required fields	_
Save Changes Discard Changes Clear Configuration	

6يتلا، ،لوصولا ةمدخ ددحو ةمدخلا ديدحت دعاوق < لوصولا تامدخ < لوصولا تاسايس رتخأ. نوكتس ،لاثملا اذه يف .+TACACS ةقداصم جلاعت Default Device Admin.

Access F Si	Access Policies > Access Services > Service Selection Rules Single result selection Rule based result selection Service Selection Policy							
Filter	Statu	IS 🔻	Match if:	Equals 👻	Enabled •	Clear Filter	Go 🔻	
		Status	Name	Protocol	Conditions		Results Service	Hit Count
1		0	Rule-1	match Tacacs	•		Default Device Admin	1
2		Θ	Rule-2	match Radius	4		Default Network Access	0

.7قوف رقناو ةيوەلا < ةيضارتفالا زاەجلا ةرادإ < لوصولا تامدخ < لوصولا تاسايس رتخأ ةيوەلا ردصم راوجب ديدحت



.ok.8 ةقطقطو AD1 ترتخأ

Ident	ity Store		Showing 1-9 of 9 50 • per page Go
Filter	: [Match if. 🚽 🕞 🔻	
	Name 🔺	Description	
۰	AD1		
0	CN Usemanie	Predefined Certificate Authentication Profile	
O	DenyAccess		
O	Internal Hosts		
0	Internal Users		
0	LUAP	Domain Controller LDAP	
0	NAC Profiler	Default Entry for NAC Profiler	
0	safeword	THIS IS NOT USED nic 2011.11.22	
0	safeword-ias		
	_		H A Page 1 of 1 ► H
OK	Cancel		

Access Policies > Access Services > Default Device Admin > Identity			
21		_	
Single resu	It selection 💿 Rule based result selection		
Identity Source:	AD1 Select		
	 Advanced Options 		
		-	
Save Changes	Discard Changes		

.10رقناو ضيوفتلا < ةيضارتفالا زاهجلا ةرادإ < لوصولا تامدخ < لوصولا تاسايس رتخأ .صيصخت قوف

٨	Access Policies > Access Services > Default Device Admin > Authorization								
1	Standard Policy Exception Policy								
	Devic	e Adn	ninistratio	on Autho	rization Policy				
	Filter:	Stat	us	,	Match if: Equals V Enabled V	Clear Filter	Ga 🔻		
			Status	Name	Conditions Compound Condition	R Shell Profile	esults Command Sets	Hit Count	
			No data	to displa	У				
	**		Default		If no rules defined or no enabled rule matches.	Permit Access	DenyAlCommands	1	
	Create	e •	Duplica	ate 🔹	Edit Delete A Move to V			Custemize Hit Count	
C	Save Changes Discard Changes								

4D1:ExternalGroups خسنا AD1:ExternalGroups خسنا قوف نآلا رقناو .جئاتنلا صيصخت مسق ىلإ حاتم نم رماوألا تاعومجمو Shell فيرعت OK.

Customize Conditions	
Available:	Selected:
ACS Host Name	AD1:ExternalGroups
Authentication Method	>
Authentication Status	
Compound Condition	
Device Filter	
Device IP Address	
Eap Authentication Method	
Eap Tunnel Building Method	
End Station Filter	
Customize Results	
Available:	Selected:
· · · · · · · · · · · · · · · · · · ·	Shell Profile
	> Command Sets
	≪ ⊻
OK Cancel	

.12.ةديدج ةدعاق ءاشنإل ءاشنإ قوف رقنا

A	cess P	olicies	> Access	Services	> Default Device Admin > Authorization			and the second second	
	Standard Policy Exception Policy								
	Devic	e Adn	ninistrati	on Autho	rization Policy				
	Filter	Stat	us		Match if: Equals • Enabled •	Clear Filter	io 🔻		
			Status	Name	Conditions AD1:ExternalGroups	R Shell Profile	esults Command Sets	Hit Count	
			No data	to displa	1				
	**		<u>Default</u>		If no rules defined or no enabled rule matches	s. Permit Access	DenyAllCommands	0	
	Creat	e I •	Duplic	ste 💌	Edit Delete Move to			Customize Hit Count	
	Create								
[Save (Change	es D	iscard Ch	anges				

ملاح يف ديدحت ىلع رقنا AD1:ExternalGroups.13.

General					
Name: Rule-1	Status: L	_nabled 🔹 😌			
0			-		
Conditions and r	button in the low esults are availa	er right area of the j ble here for use in p	policy rules screen cont policy rules.	rols which policy	
<u> </u>	-				
Conditions					
AD1:ExternalGroups:					
contains any	1				I
				^	I
Saleet Deselect	Clear			1.4	
	Ciea				
Results					
Shell Floille. Permit Acc	858	[Select]			
Command Gets		1			I
					I
		X			
	+				•
K Cancel				Lle	lp

.14قوف رقناو .Cisco IOS زامج ىلع اميلع لماكلا لوصولا ريفوت ديرت يتلا ةعومجملا رتخأ OK.

String	g Enum Definition	Showing 1-2 of 2 50	• per page Go
Filter	- Match if: • Go •		
	Enum Name		
V	MCS55.com/Users/Network Admins		
	MCS55.com/Users/Network Maintenance Team		
		I Page	1 of 1 🕨 🖹
ОК	Cancel		

Shell.15. فيرعت فلم لقح يف ديدحت ىلع رقنا

	•
The Customize button in the lower right area of the policy rules screen controls which policy conditions and results are available here for use in policy rules.	
Conditions	
☑ AD1:ExternalGmups:	
contains any	
MCS55.com/Users/Network Admins	
Select Deselect Clear	
Results	-
Shell Profile: Permit Access Select	
Command Seta:	
Image: Select	
OK Cancel	l leip

.16.لماكلا لوصولا يمدختسمل ديدج Shell فيرعت فلم ءاشنإل ءاشنإ ىلع رقنا

Shell	Profiles	Showing 1-2 of 2 50 • per page Go
Filter:	✓ Match if: ✓ Go ▼	
	Name - Description	
0	DenyAccess	
0	Permit Access	
Grea	te Duplicate Edit Delete	M Page 1 of 1 🕨 🕨
OK	Cancel	Help

.17ةمالع قوف رقناو "ماع" بيوبتلا ةمالع يف (يرايتخإ) فصوو مسا ريفوتب مق ةماع ماهم بيوبتلا

General Cor	mmon Tasks Custom Attributes				
🌣 Name:	Full-Privilege				
Description: To push default privilege 15 for IOS					
Required fields					

.15.18 ةميقلا عم يكيتاتسإ نكاس ىلإ زايتما ىصقألا دحلاو زايتما ريصقتلا تريغ لاسرا ىلع رقنا

ŕ

rivilege Level				
Default Privilege:	Static 👻	Value 15 🔹	-	
Maximum Privilege:	Static 👻	Value 15 🔹	-	
Shell Attributes				
Access Control List:	Not in Use 👻			
Auto Command:	Not in Use 👻			
No Callback Verify:	Not in Use 👻			
No Escape:	Not in Use 👻			
No Hang Up:	Not in Use 👻			
Timeout:	Not in Use 🔻			
Idle Time:	Not in Use 👻			
Callback Line:	Not in Use 👻			
Callback Rotary:	Not in Use 👻			



.19اذه يف لماك زايتما) اثيدح هؤاشنإ مت يذلا لماكلا لوصولل Shell فيرعت فلم نآلا رتخأ قفاوم رقناو (لاثملا

Shell	Profiles	
Filter	✓ Match if: ✓ Go ▼	
	Name Description	
\odot	DenyAccess	
۲	Full-Privilege To push default privilege 15 for IOS	
\odot	Permit Access	
Crea	e Duplicate Edit Delete	
OK	Cancel	

.20.رماوألا تاعومجم لقح يف ديدحت رقنا

	•
The Customize button in the lower right area of the policy rules screen controls which policy conditions and results are available here for use in policy rules.	
Conditions	
☑ AD1:ExternalGmups:	
contains any	
MCS55.com/Users/Network Admins	
Select Deselect Clear	
Results	=
Shell Profile: Full-Privilege Select	
Command Seta:	
Select Deselect	
OK Cancel	Help

.21.لماكلا لوصولا يمدختسمل ةديدج رماوأ ةعومجم ءاشنإل ءاشنإ قوف رقنا

Command Sets	Showing 1-1 of 1 50 • per page Go
Filter: 🔹 Match if: 🔹 Go 💌	
Command Set Name Description	
DenyAllCommands	
Create Duplicate Edit Delete File Operations Export	I ■ Page 1 of 1 ► ►
OK Cancel	Help

.22يف دوجوم ريغ رمأ يأب حامسلل ةرواجملا رايتخالا ةناخ ديدحت نم دكأتو مسا ريفوتب مق لااسرا يلع رقنا .هاندأ لودجلا.

ديزم ىلع لوصحلل <u>ةزمجألا ةرادال امريرحتو ةفعاضمو رماواً تاعومجم ءاشنا</u> عجار :ةظحالم .رماوألا تاعومجم لوح تامولعملا نم

Description: Image: Permit any command that is not in the table below Grant Command Arguments	*
Permit any command that is not in the table below Grant Command Arguments	~
Permit any command that is not in the table below Grant Command Arguments	^
Grant Command Arguments	*
	^
	-
Add A Edit V Replace A Delete	
Grant Command Arguments	
Permit 🔹	
Select Command/Arguments from Command Set: DenyAllCommands -	

.0K.23 قوف رقناو

Command Sets
Filter: ▼ Match if: ▼ Go ▼
Command Set Name Description
DenyAllCommands
✓ <u>Full-Access</u>
Create Duplicate Edit Delete File Operations Export
Cancel

The Customize button in the lower right area of the policy rules screen controls which policy conditions and results are available here for use in policy rules.	4
Conditions IVI AD1:LxternalGroups: contains any	
MCS55.com/Users/Network Admins	
Select Deselect Clear Results Shell Profile. Full-Privilege Command Sets: Select Full-Access A	1
Select Deselect	Help

.25.دودحملا لوصولا يمدختسمل ةديدج ةدعاق ءاشنإل ءاشنإ قوف رقنا

۵ ۱	Access Policies > Access Services > Default Device Admin > Authorization Standard Policy Exception Policy Device Administration Authorization Policy							
	Filter. Status • Match if. Equals • Enabled • Clear Filter Go •							
			Status	Name	Conditions AD1:ExternalGroups	R Shell Profile	esults Command Sets	Hit Count
	1		•	Rule-1	contains any (MCS55.com/Users/Network Admins)	Full-Privilege	Full-Access	0
		B	Defend		If on subscidefined or no analytical subscriptions	Dermit Annese	DanuAllCommonds	0
	Create							
	Creete Save Changes Discard Changes							

.26.ديدحت رقناو AD1:ExternalGroups رتخأ

General Nome: Rule 2 Status: Enabled The Customize button in the lower right area of the policy rules screen controls which policy conditions and results are available here for use in policy rules. Conditions Image: AD1.ExternalGroups. contains any Select Ueselect Clear Results Shell Profile Permit Access Select Command Sets: UK Cancel			
Nome: Rule 2 Status: Enabled - • • Ihe Customize button in the loweringht area of the policy rules screen controls which policy conditions and results are available here for use in policy rules. Conditions AD1.ExternalGroups. contains any - • Select Ueselect Clear Results Shill Profile. Permit Access Select Command Sets: OK Cancel Iele	General		
Ite Customize button in the lower right area of the policy rules screen controls which policy conditions and results are available here for use in policy rules. Conditions Image: Contrains any image: Contrains	Name: Rule 2	Status: Enabled - 🤤	
Image: Select Clear Select Clear Results Select Clear Shell Profile. Permit Access Select Clear Select Clear Results Select Clear OK Cancel Help			
Conditions Contains any Select Ueselect Clear Results Shell Profile. Permit Access Command Sets: OK Cencel	f lhe cond	Customize button in the lower right area of the policy rules screen controls which policy ditions and results are available here for use in policy rules.	
✓ AD1.ExternalGroups. Contains any	Conditions		
Contains any Contains any Select Ueselect Clear Results Shell Profile. Permit Access Command Sets:	🗷 AD1.Extern	alGroups.	
Select Clear Results Shell Profile. Permit Access Command Sets:	contains any	-	
Selact Deselect Clear Resulta Shell Profile. Permit Access Belect Command Sets: UK Cancel IIelo			
Select Ueselect Clear Results Shell Profile. Permit Access Command Sets: UK Cancel Ileip			
Select Deselect Clear Results Shell Profile. Permit Access Select Command Sets: UK Cancel UK Cancel Uke			=
Select Deselect Clear Resulta Shell Profile. Pennit Access Command Sets:			
Select Deselect Clear Results Shell Profile. Permit Access Select Command Sets:		_	
Results Shell Profile. Permit Access Command Sets: UK Cancel	Select	Deselect (laar	
Results Shell Profile. Permit Access Command Sets:			
Shell Profile. Permit Access Select	Results		
Command Sets:	Shell Profile.	Permit Access Select	
	Command Sets:		
OK Cancel			
OK Cancel			
OK Cancel			
UK Cancel			
OK Cancel Ilelo			
	OK Cancel		Help

.27.قفاوم قوف رقناو اهيلإ دودحم لوصو ريفوت ديرت يتلا تاعومجملا (وأ) تاعومجم رتخأ

String Enum Definition
Filter: Match if: Go
Enum Name
MCS55.com/Users/Network Admins
MCS55.com/Users/Network Maintenance Team
OK Cancel

.Shell.28 فيرعت فلم لقح يف ديدحت ىلع رقنا

The Customize button in the lower right area of the policy rules screen controls which policy conditions and results are available here for use in policy rules.	*
Conditions	
contains any	
MCS55.com/Users/Network Maintenance Team	
Results Shell Profile: Permit Access Select Command Sets:	в
Select Deselect	
OK Cancel	Help

.29.دودحملا لوصولل ديدج Shell فيرعت فلم ءاشنإل ءاشنإ ىلع رقنا

Shell	Profiles	
Filter:	-	Match if: Go 🔻
	Name 🔺	Description
0	DenyAccess	
0	Full-Privilege	To push default privilege 15 for IOS
0	Permit Access	
Crea	te Duplicate	Edit Delete
OK	Cancel	

.30بيوبتلا ةمالع قوف رقناو ماع بيوبتلا ةمالع يف (يرايتخإ) فصوو مسا ريفوتب مق .ةكرتشم ماهم

General Co	mmon Tasks Custom Attributes	
🌻 Name:	Limited-Privilege	
Description:	To push default privilege 1 for IOS	
= Required fiel	ds	

31.ىلع 15و 1 ةميق عم يكيتاتسإ نكاس ىلإ زايتما ىصقألا و زايتما ريصقتلا تريغ. لاسرا ىلع رقنا .يلاوتلا.

Default Privilege:	Static							
Maximum Drivilago:		•	Va	alue	1	•		
Maximum r nwiege.	Static	-]	Va	alue [15	-		
Shell Attributes								
Access Control List:	Not in	Use 👻]					
Auto Command:	Not in	Use 👻						
No Callback Verify:	Not in	Use 🔻]					
No Escape:	Not in	Use 👻]					
No Hang Up:	Not in	Use 🔻						
Timeout:	Not in	Use 🔻]					
Idle Time:	Not in	Use -]					
Callback Line:	Not in	Use 🔻]					
Callback Rotary:	Not in	Use 👻						
= Required fields							 	 •

.0K.32 قوف رقناو

Shell	Profiles	
Filter:		Aatch if: 🕞 🗸 🕞 🗸
	Name 🔺	Description
۲	DenyAccess	
\odot	Full-Privilege	To push default privilege 15 for IOS
۲	Limited-Privilege	To push default privilege 1 for IOS
0	Permit Access	
	to Dualizata	
Crea		
OK	Cancel	

.33.رماوألا تاعومجم لقح يف ديدحت رقنا

The Customize button in the lower right area of the policy rules screen controls which policy conditions and results are available here for use in policy rules.	
Conditions	
AD1:ExternalGroups:	
MCS55.com/Users/Network Maintenance Team	
Select Deselect Clear	
Shell Profile: Limited-Privilege Select	=
Command Sets:	
Select Deselect	
OK Cancel	Help

.34.ةدودحملا لوصولا ةعومجمل ةديدج رماوأ ةعومجم ءاشنإل ءاشنإ قوف رقنا

Com	mand Sets
Filter	r: ➡ Match if: ➡ Go ▼
	Command Set Name Description
	DenyAllCommands
	Full-Access
Crea	ate Duplicate Edit Delete [File Operations Export Cancel

.35دوجوم ريغ رمأ يأب حامسلل ةرواجملا رايتخالا ةناخ ديدحت مدع نم دكأتو مسا ريفوتب مق مسق يف ةرفوتملا ةحاسملا يف ضرع ةباتك دعب ةفاضإ قوف رقنا .هاندأ لودجلا يف ضرعلا رماوأل طقف حامسلا متي ثيحب حنم مسق يف حامسلا رتخاو رماوألا .دودحملا لوصولا ةعومجم يف نيمدختسملل

General		
Name:	Show-Access	
Descriptio	on:	
Permit an	y command that is not in the table below	Arguments
orani	Command	Arguments
Add A	Edit V Replace A Delete	
Grant	Command	Arguments
Permit	✓ show	
Select Comn	nand/Arguments from Command Set:	DenyAllCommands -
		Select

.36لوصولا ةعومجم يف نيمدختسملل اهب حومسم ىرخأ رماوأ يأ ةفاضإب مق لـثملابو لاسرا ىلع رقنا .Add مادختساب ةدودحملا.

ديزم ىلع لوصحلل <u>ةزمجألا ةرادال امريرحتو ةفعاضمو رماواً تاعومجم ءاشنا</u> عجار :ةظحالم .رماوألا تاعومجم لوح تامولعملا نم

Name:	Show-Access	
Description:		
Permit any c	command that is not in the table below	
Ct	Comment	A
Grant	Command	Arguments
Permit	show	
Permit	enable	
Permit	exit	
Add A	Edit V Replace A Delete	
Grant	Command	Arguments
Permit	▼	
Select Comman	d/Arguments from Command Set	DenvAllCommande -
Select Sommu	Service and a contract of the	
		Select

.0K.37 قوف رقناو

Command Sets
Filter: Match if: Go
Command Set Name Description
DenyAllCommands
Full-Access
Show-Access
Create Duplicate Edit Delete File Operations Export
OKCancel

.0K.38 قوف رقناو



The Customize button in the lower right area of the policy rules screen con conditions and results are available here for use in policy rules.

Conditions

AD1:ExternalGroups:
contains any -
MCS55.com/Users/Network Maintenance Team
Select Deselect Clear
Results
Shell Profile: Limited-Privilege Select
Command Sets: Show-Access
Select Deselect
OK Cancel

.39.تارييغتلا ظفح قوف رقنا

	ccess P Standa	cess Policies > Access Services > Default Device Admin > Authorization tandard Policy <u>Exception Policy</u>								
	Device Administration Authorization Policy									
Filter: Status • Match if: Equals • Enabled • Cl						Clear Filter Go 🔻				
			Status	Name	Conditions AD1:ExternalGroups	Re Shell Profile	command Sets	Hit Count		
	1		0	Rule-1	contains any (MCS55.com/Users/Network Admins)	Full-Privilege	Full-Access	0		
	2		Θ	Rule-2	contains any (MCS55.com/Users/Network Maintenance Team)	Limited-Privilege	Show-Access	0		
		Default If no rules defined or no enabled rule matches.					DenyAllCommands	0		
Create Duplicate • Edit Delete A Move to V								ustomize Hit Count		
Save Changes Discard Changes										

.ACS.40 ىلع AAA ليمعك Cisco IOS زاهج ةفاضإل ءاشنإ قوف رقنا

Network Resources > Network Devices and AAA Clients										
	Netwo	ork Devices								
	Filter: IP Address • Match if: Equals					▼ 192.168.26.7 Clear Filter Go				
		Name	•	IP Address	Description	NDG:Location	NDG:Device Type			
		No data to d	lispla	У						
Create Duplicate Edit Delete File Operations Export										

.41.لاسرا قوف رقناو +TACACS ل كرتشم رسو IP ناونعو مسا ريفوتب مق

N	etwork Resources > N	Network Dev	vices and AAA Clients > Create			
	o Name: lab	b-router				
	Description:					
	Network Device G	Groups				
	Location	1	All Locations	Se	lect	
	Device Type	1	All Device Types	Se	lect	
	IP Address			Authenti	cation Options	
	Single IP A	Address	O IP Range(s) By Mask	IP Range(s) TACA(XS+ ⊠	
	IP: 192.168.26	6.7		Sha	red Secret: ••••••	Show
					Single Connect Device	
				8	Legacy TACACS+ Single Connect S	upport
					TACACS+ Draft Compliant Single Co	nnect Support
					IS 🔳	
				Sh	ared Secret:	Show
				Co	A port: 1700	
	e = Required fields	5				
Ē	Submit Cancel					

ضيوفتلاو ةقداصملل Cisco IOS زاهج نيوكت

.ضيوفتلاو ةقداصملل ACS و Cisco IOS زامج نيوكتل تاوطخلا هذه لمكأ

رمألا مادختساب يطايتحالا نييعتلل لماك زايتماب يلحم مدختسم ءاشنإب مق. انه حضوم وه امك username

username admin privilege 15 password 0 cisco123!

.TACACS.2 مداخك ACS 5.x ةفاضإو AAA نيكمتل ACS ب صاخلا IP ناونع ريفوتب مق

aaa new-model tacacs-server host 192.168.26.51 key cisco123

Cisco زامجل ACS ىلع رفوتملا كرتشملا رسلا عم حاتفملا قباطتي نأ بجي :ةظحالم .اذه IOS

.3.حضوم وه امك <u>AAA رابتخا</u> رمأ مادختساب TACACS مداخ ىلإ لوصولا ةيناكمإ ربتخا

test aaa group tacacs+ user1 xxxxx legacy Attempting authentication test to server-group tacacs+ using tacacs+ User was successfully authenticated. ةقداصم تمت دقو هيلإ لوصولا نكمي TACACS مداخ نأ قباسلا رمألا جارخإ حضوي .حاجنب مدختسملا

ىجري ،رابتخالا لشف ةلاح يف .AD ىلإ xxx رورملا ةملكو User1 نم لك يمتني :ةظحالم .حيحص ةقباسلا ةوطخلا يف رفوتملا كرتشملا رسلا نأ نم دكأتلا

لرماوألا تاصيخرتو EXEC مدختسأ مث ةقداصملا نيكمتو لوخدلا ليجست نيوكتب مق. انه حضوم وه امك

> aaa authentication login default group tacacs+ local aaa authentication enable default group tacacs+ enable aaa authorization exec default group tacacs+ local aaa authorization commands 0 default group tacacs+ local aaa authorization commands 1 default group tacacs+ local aaa authorization commands 15 default group tacacs+ local aaa authorization commands 15 default group tacacs+ local

مدختسملا ىلإ عوجرل نيكمتلاو ةيلحملا ةيساسألا تاملكلا مادختسإ متي :ةظحالم رذعتي TACACS مداخ ناك اذإ يلاوتلا ىلع يرسلا نيكمتلاو Cisco IOS جمانربل يلحملا .ەيلإ لوصولا

ةحصلا نم ققحتلا

.Telnet جمانرب لالخ نم Cisco IOS زاهج ىلإ ضيوفتلاو ةقداصملا لوخد ليجست نم ققحتلل

Telnet يف لماكلا لوصولا ةعومجم ىلإ يمتني يذلا 1مدختسمك Cisco IOS زاهج ىل AD.1 فلم ىلإ اهنييعت مت يتلاو AD يف ةدوجوملا ةعومجملا يه ةكبشلا يلوؤسم ةعومجم لواح ACS. ىلع اهنييعت مت يتل full-access رمألا ةعومجمو Full-Privilege Shell فيرعت لماكلا لوصولا ىلع كلوصح نامضل رمأ يأ ليغشت

```
username: user1
password:
router1#conf t
Enter configuration commands, one per line. End with CNTL/2.
router1(config)#router rip
router1(config-router)#version 2
router1(config-router)#exit
router1(config)#exit
router1[config]#exit
```

Telnet يف دودحملا لوصولا ةعومجم ىلإ يمتني يذلا user2 ك Cisco IOS زامج ىل AD.2. فلم ىلع اهنييعت متي يتلا AD يف ةعومجملا يه ةكبشلا ةنايص قيرف ةعومجم) رمأ يأ ليغشت تلواح اذإ .(ACS ىلع show-access رمألا ةعومجمو دودحملا Shell فيرعت ل شف أطخ ىلع لصحت نأ بجيف ،show-access رماوألاا ةعومجم يف ةروكذملا رماوألا فالخب .دودجم لوصو هيدل 2مدختسملا نأ رهظي يذلاو ،رم او أل الفي وفت

username: user2 password: router1>enable password: router1# router1# routerlfshow version Cisco IOS Software, C3550 Software (C3550-IPBASEK9-M), version 12.2(44)SE6, RELEASE S OFTWARE (fcl) Copyright (c) 1986-2009 by Cisco Systems, Inc. Compiled Mon 09-Mar-09 20:26 by gereddy Image text base: 0x00003000, data base: 0x00EA3DE8 ROM: Bootstrap program is C3550 boot loader routerl uptime is 16 hours, 46 minutes System returned to ROM by power-on System image file is "flash:c3550-ipbasek9-mz.122-44.SE6.bin" 11 This product contains cryptographic features and is subject to United States and local country laws governing import, export, transfer and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute or use encryption. Importers, exporters, distributors and users are responsible for compliance with U.S. and local country laws. By using this product you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return this product immediately. A summary of 0.5. laws governing Cisco cryptographic products may be found at: http://www.cisco.com/wwl/export/crypto/tool/storg.html If you require further assistance please contact us by sending email to export@ciaco.com. routerl#conf t Command authorization failed. router1#wr mem Command authorization failed. router1#

.3جمانرب أدباو ACS ل (GUI) ةيموسرلا مدختسملا ةمجاو ىلإ لوخدلا ليجستب مق. ققحتلل AAA > TACACS+Authorization لوكوتورب رتخأ .Monitoring and Reporting Viewer user2. و 1مدختسملا ةطساوب امذيفنت مت يتلا ةطشنألاا نم

ſ	<u>_</u> • •						Launch Interactive Viewer					
	Showing Pag	ge 1 of 1				Gotz	Page: Go					
ŀ	AAA Protocol > TACACS+ Authorization											
ŀ	Authorization Status : Date :	: Pass or Fail June 08, 2012										
Generated on June 8, 2012 11:57:34 AM IST												
k	Reload											
✓=Pass ×=Fail ^Q =Click for details												
	ACS View Timestamp	ACS Timestamp	Status	Details	Fallure Reason	User Name	Command	Set Shell Profile	Network Device			
	Jun 8,12 6 21 19 410 AM	has 5,12 6:21:19.393 AM		Q,		user2	[CadAVestit]		lab-resizer 1			
I	Aug 8,12 4:20:59,800 AM	3xt 8.12 6:29:59.799 AM	*	- 4L	13025 Constant Billed to match a Pennit rule	user2	[Ond-Wheele memory]		bb-roser 1			
I	Inn 5,12 8:20 58:588 AM	han 8,12 8:20:58 850 AM	*	9	13025 Command failed to match a Permit rule	2002	[CndAV+configure terminal.]		lab-roster 1			
I	Jan 8,12 6:20:50.056 AM	Jun 8,12 6:20:50.036 AM	1	- N.	6	weet?	[Cnd/W-show version.]		Mercutar 1			
I	No. 8,12 6:20 78,505 AM	han 8,12 6:20:38,490 AM	1	9	Commands run by	user2	[Cad&Vesable]		lab-rouxer 1			
I	Jun 8.12 6:20:34.426 AM	3tn 8,12 6:20:34.406 AM	1	- Q	user 2	10012	[CmdAV=]	Limited-Privilege	lab-costar 1			
ľ	Jun 8,12 6:20:02.616 AM	han 9,12 6:30:02.595 AM	~	e,		mer1	[CadAVestit]		lab-rocker 1			
	Nov. 8,12 4:20:00.263 AM	Jan 8,12 6:20:00:246 AM	1	- 4L	Commands run by	unel	[CndAV-venion 2]		lab-rooter 2			
	hts 5,12 6:19:57,253 AM	Jon 8.12 6:19:57.260 AM	1	94	user1	sort.	[Cas64Wrrouterrip]		lab-rouxer			
	Jun 8,12 6:19:55.103 AM	Jun 8,12 6.19:55.076 AM	1	- 44		seel	[CndAV-configure terminal.]		Mercutar 1			
	No. 8.12 6 19 52 763 AM	3xt 8.12 6:19:52 740 AM		9		wet	[Cmd8V=]	Pall-Privilege	(ab-roover)			

ةلص تاذ تامولعم

- <u>Cisco نم نمآلا لوصولا يف مكحتلا ماظن</u> <u>Cisco Systems تادنتسملاو ينقتلا معدلا</u>

ةمجرتاا مذه لوح

تمجرت Cisco تايان تايانق تال نم قعومجم مادختساب دنتسمل اذه Cisco تمجرت ملاعل العامي عيمج يف نيم دختسمل لمعد يوتحم ميدقت لقيرشبل و امك ققيقد نوكت نل قيل قمجرت لضفاً نأ قظعالم يجرُي .قصاخل امهتغلب Cisco ياخت .فرتحم مجرتم اممدقي يتل القيفارت عال قمجرت اعم ل احل اوه يل إ أم اد عوجرل اب يصوُتو تامجرت الاذة ققد نع اهتي لوئسم Systems الما يا إ أم الا عنه يل الان الانتيام الال الانتيال الانت الما