Here are the needed steps to configure correctly the PowerShell discovery:

How to Configure PowerShell Remoting

This task describes how to enable PowerShell remote access.

This task includes the following steps:

1. Launch the PowerShell configuration

In the PowerShell command prompt run the winrm quickconfig.

Note: From the moment that the PowerShell configuration is launched, you must differ between the server side configuration and client side configuration.

<u>+</u>

2. Configure the server-side machine

On the server, depending on the authentication method that will be used, perform the following steps:

a. Run cd WSMan:\localhost\Service\Auth

b. Run dir and verify that the required authentication type is enabled, that is, the State = True. If the required authentication type is disabled, run "et-Item <AuthTypeName> True. By default, Kerberos and Negotiate are enabled.

c. Run cd WSMan:\localhost\Service and verify that IPv4Filter or IPv6Filter are set to either "*" or to any other valid value for your environment.

d. Run cd WSMan:\localhost\Listener, and then dir. Verify that the listener actually listens to the required IPs. By default, the listener listens to all IPs if the value "*" is used.

e. If you made any changes, restart the winrm service by running the restart-service winrm command

3. Configure the client-side machine

On the client machine, perform the following steps:

a. Run cd WSMan:\localhost\Client\Auth

b. Run dir and verify that the required authentication type is enabled, that is, the State = True. If the required authentication type is disabled, run Set-Item <AuthTypeName> True.

Note: The allowed protocols must coincide with the ones configured on the server side.

c. Run cd WSMan:\localhost\Client.

d. Run dir and check value of TrustedHosts. By default, the value is empty so that no connection outside is possible. TrustedHosts is an ACL field where the allowed values are a domain name or a list of domain names and an IP address or a list of IP addresses. The value may have a special symbol "", meaning that any destination or any symbol can appear in any part of the specified destinations list. If the only value is "", then the client is allowed to connect to any host. This is the recommended value.

To change the value for TrustedHosts, use Set-Item TrustedHosts <Value>.

PS WSMan:\localhost\C	lient> Set-Item .\TrustedHosts =	
VinRM Security Config This command modifies authenticated. The cl this list? [Y] Yes [N] No [S] PS WSMan:\localhost\C	uration. the TrustedWosts list for the WinRM of innt might send credential information Suspend [?] Help (default is "Y"): y lient> dir	lient. The computers in the TrustedHosts list might not be to these computers. Are you sure that you want to modify
VSManConfig: Micro	soft.VSMan.Management\VSMan::localhost	NClient
Nane	Value	Туре
NetworkDelayns URLPrefix AllowUnencrypted Auth DefaultPorts TrustedHosts	5800 Vsnan false	System.String System.String System.String Container Container System.String
DC UCHan and Income the	Participation of the second	

Note: No translation from FQDN to IP is done while validating the ACL. This means that if the connection is performed by IP and only an FQDN is listed in the

TrustedHosts field (or vice versa), the connection will not be allowed.

e. If you made any changes, restart the winrm service by running the restart-service winrm command.

HC by powershell

2. Prerequisite - Configure PowerShell

Before starting the discovery, ensure that PowerShell v2.0 is installed and configured on the Data Flow Probe machine. To access the installation files, see

http://support.microsoft.com/kb/968929).

a. Enable PowerShell remoting:

o Launch PowerShell v 2.0 as an administrator.

o Run the Enable-PSRemoting cmdlet. This starts the WinRM service and sets the startup type to Automatic, enables a firewall exception for WS-Management communications, and creates a listener to accept requests on any IP address.
Note: To enable PowerShell remoting on all computers in your domain, in Domain Group Policy: Computer Configuration > Policies > Administrative Templates > Windows Components > Windows Remote Management (WinRM) > \WinRM Service, select Allow automatic configuration of listeners.
b. To trust all hosts, run the following from the command line: Set-Item WSMan:\localhost\Client\TrustedHosts *
To trust only restricted IP addresses, specify the addresses in place of the asterisk (*).
c. Restart WinRM by running the following from the command line: restart-Service winrm
Note: By default, WinRM uses Kerberos for authentication. To configure WinRM for https, see http://support.microsoft.com/kb/2019527.

Permissions:

User need to be admin or at least write and read permissions.

User need to have permissions to connect to any domain:

For details of this special case, see "HOW TO ENABLE REMOTING FOR ADMINISTRATORS IN OTHER DOMAINS" at <u>http://technet.microsoft.com/en-us/library/dd347642.aspx</u>

Screenshots of PowerShell configuration on CLIENT and SERVER:

Administrator: Windows PowerShell PS VSMan:\localhost> 1s - O × VSManConfig: Microsoft.VSMan.Management\VSMan::localhost Value Type ane MaxEnvelopeSizekb MaxTineoutns MaxBatchItens MaxProviderRequests Client Client 158 69888 32888 4294967295 Service Shell Listener Plugin ClientCertificate PS WSMan:\localhest) _ Services configuration: (here we enable http/https compatibility) Administrator: Windows PowerShell - 0 PS WSMan:\localhost\Service> ls VSManConfig: Microsoft.VSMan.Management\VSMan::localhost\Service Ualue Lane Type
 RootSDDL
 O:NSG:BAD:P(A;;CA;;:BA)S:P(AU;FA;GA;;;VD)(AU;SA;GVCX;;:VD)

 MaxConcurrentOperations
 12949672295

 MaxConcurrentOperations
 15

 EnumerationTimeoutos
 60000

 MaxConnections
 25

 MaxConnectypted
 120

 Alloudnencrypted
 False
 System.String System.String System.String System.String th FaultPorts * v4Filter * ableCompatibilityHtt... true ableCompatibilityHtt... false rtificateThunbprint PS WSMan:\localhost\Service> _ Client configuration: (trustedhosts value should be * to allow any connection) localhost\Client) VSManConfig: Microsoft.VSMan.Management\VSMan::localhost\Client Value Type lane 5088 NetworkDelayns URLPrefix AllowUnencrypted System.String System.String System.String False Auth DefaultPorts TrustedHosts . .String PS WSMan:\localhost\Client> _ Listener configuration: PS WSMan:\localhost> cd listener PS WSMan:\localhost\Listener> ls WSManConfig: Microsoft.WSMan.Management\WSMan::localhost\Listener Nane Type Keys (Address=*, Transport=HTTP)
(Address=*, Transport=HTTP) Listener_641507880 Container Listener_1369396199 Container PS WSMan:\localhost\Listener> _

Configuration on the remote server that we want to discover (main settings)

Client default ports: (here you can change the ports in case you don't want to use the default ones)

PS WSMan:\localhost\Client\DefaultPorts> 1s					
WSManConfig: Microsoft.WSMan.Management\WSMan::localhost\Client\DefaultPorts					
Nane	Value	Туре			
HTTP HTTPS	5985 5986	System.String System.String			

PS WSMan:\localhost\Client\DefaultPorts>

Also the port that we use here need to be set on the uCMDB credential for PowerShell protocol:

9	Domains and Probes	Powershall Professel					
2	• X 4 0 5 4 4 0 X 2 X 5 5 6 5						
Vergenison Duule Contential	Exten	Scope	Unit None	Uter Label			
Adapter Ukragement UC Community	LLAP Function LaP function	Passaord Pon Namber Social Soc					

Client auth: (here we can enable/disable permission)

PS WSMan:\localhost\C	lient\Auth> 1s	
WSManConfig: Micro	oft.VSMan.Management\VSMan::localhost\C	lient\Auth
Nane	Value	Type
Basic Digest Kerberos Negotiate Certificate CredSSP	true true true true false	System.String System.String System.String System.String System.String System.String
Service Auth: (here PS WSMan:\localhost\S WSManConfig: Micro	we can enable/disable permission) rvice\Ruth>ls oft.VSHan.Hanagement\VSHan::localhost\Se	rvice\Aut)
Nane	Value	Туре
Rasic Kerberos Negotiate Certificate CredSSP CbtHardeningLevel	false true true false false Relaxed	System.String System.String System.String System.String System.String System.String
PS_USMan:\localbost\S	muiceAuth	

*Note:

Command to change any setting: Set-Item Example: Set-Item WSMan:\localhost\Service\EnableCompatibilityHttpListener -Value true