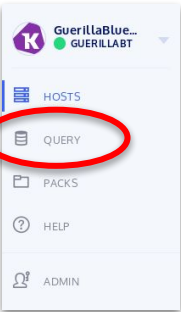
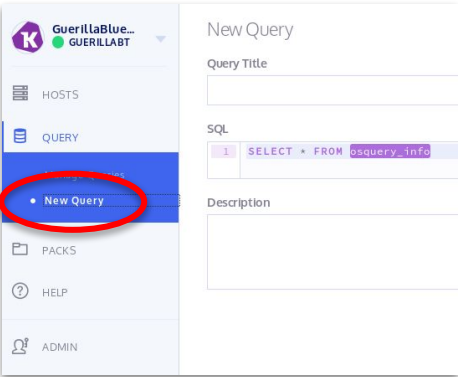


Fleet - Creating a Label


1



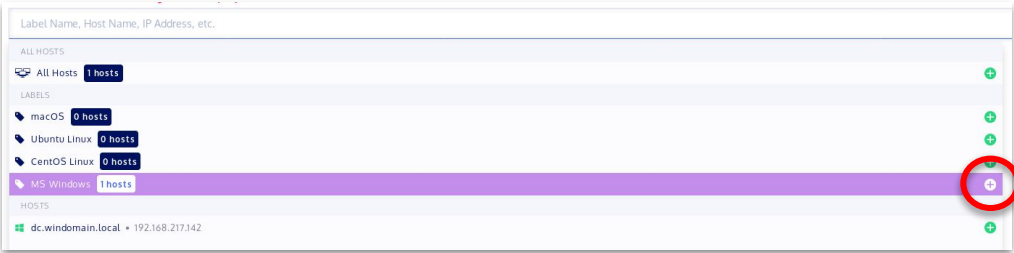
2



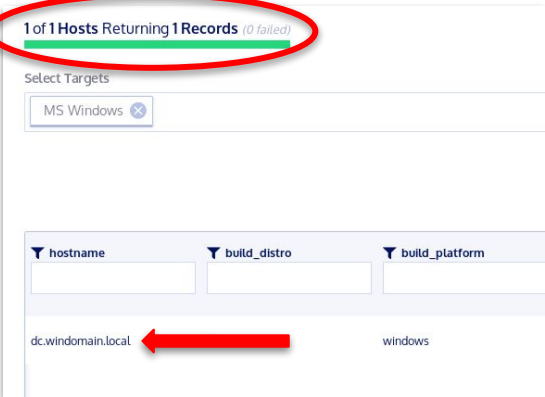
3



4



5



1 of 1 Hosts Returning 1 Records (0 failed)

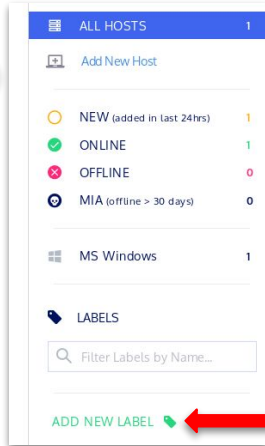
Select Targets

MS Windows

hostname	build_distro	build_platform
dc.windomain.local		windows

Fleet - Creating a Label

①



②

New Label

SQL

```
1 SELECT * FROM services WHERE display_name = "Active Directory Domain Services";
```

Name

Domain Controllers

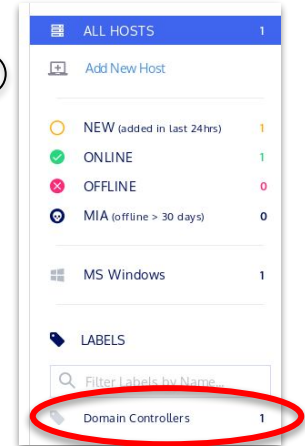
Description

Label DCs based on running services

Platform

Windows

③



Fleet - Creating a Pack

1

Choose a Table

services

Lists all installed Windows services and their relevant data.

OS Availability

Windows

2

SQL

```
1 SELECT name,display_name,status,start_type,path,module_path,description,user_account FROM services;
```

3

Label Name, Host Name, IP Address, etc.

ALL HOSTS

All Hosts 1 hosts

LABELS

macOS 0 hosts

Ubuntu Linux 0 hosts

CentOS Linux 0 hosts

MS Windows 1 hosts

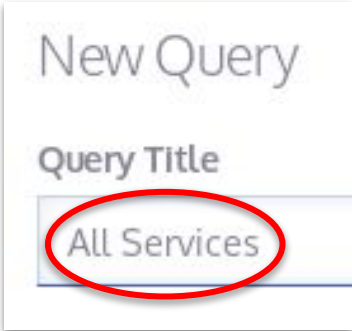
HOSTS

dc.windowain.local • 192.168.217.142

4

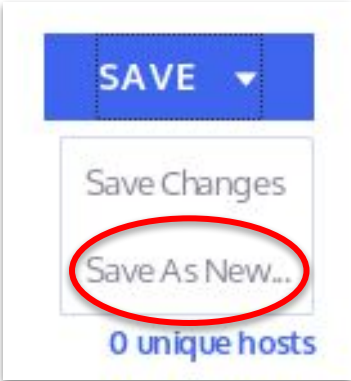
hostname	description	display_name	module_path	name	path	start_type	status	user_account
dc.windowain.local	This service provides a Web Service interface to instances of the directory service (AD DS and AD LDS) that are running locally on this server. If this service is stopped or disabled, client applications, such as Active Directory PowerShell, will not be able to access or manage any directory service instances that are running locally on the server.	Active Directory Web Services	ADWS		C:\Windows\ADWS\Microsoft.ActiveDirectoryWebServices.exe	AUTO_START	RUNNING	LocalSystem
dc.windowain.local	Routes Alloybn messages for the local Alloybn clients. If this service is stopped the Alloybn clients that do not have their own bonded routers will be unable to run.	Alloybn Router Service	%SystemRoot%\System32\AlRouter.dll	AlRouter	C:\Windows\system32\svchost.exe -k LocalServiceNetworkRestricted	DEMAND_START	STOPPED	NT AUTHORITY\LocalService
dc.windowain.local	Provides support for 3rd party protocol plug-ins for Internet Connection Sharing	Application Layer Gateway Service	ALG		C:\Windows\System32\alg.exe	DEMAND_START	STOPPED	NT AUTHORITY\LocalService
dc.windowain.local	Determines and verifies the identity of an application. Disabling this service will prevent AppLocker from being enforced.	Application Identity	%SystemRoot%\System32\appidsvc.dll	AppIDSvc	C:\Windows\system32\svchost.exe -k LocalServiceNetworkRestricted	DEMAND_START	STOPPED	NT Authority\LocalService
dc.windowain.local	Facilitates the running of interactive applications with additional administrative privileges. If this service is stopped, users will be unable to launch applications with the additional administrative privileges they may require to perform desired user tasks.	Application Information	%SystemRoot%\System32\appinfo.dll	AppInfo	C:\Windows\system32\svchost.exe -k netsvc	DEMAND_START	RUNNING	LocalSystem
dc.windowain.local	Processes installation, removal, and enumeration requests for software deployed through Group Policy. If the service is disabled, users will be unable to install, remove, or enumerate software deployed through Group Policy. If this service is disabled, any services that explicitly depend on it will fail to start.	Application Management	%SystemRoot%\System32\appmgmts.dll	AppMgmt	C:\Windows\system32\svchost.exe -k netsvc	DEMAND_START	STOPPED	LocalSystem
dc.windowain.local	Gets apps ready for use the first time a user signs in to this PC and when adding new apps.	App Readiness		AppReadiness	C:\Windows\System32\svchost.exe -k AppReadiness	DEMAND_START	STOPPED	LocalSystem
dc.windowain.local	Manages App-V users and virtual applications	Microsoft App-V Client		AppVClient	C:\Windows\system32\AppVClient.exe	DISABLED	STOPPED	LocalSystem
dc.windowain.local	Provides infrastructure support for deploying Store applications. This service is started on demand and if disabled Store	AppX Deployment Service	%SystemRoot%\system32\	AppXDeploymentService	C:\Windows\system32\svchost.exe -k LocalServiceNetworkRestricted	DEMAND_START	STOPPED	LocalSystem

Fleet - Creating a Pack

- 

1 New Query

Query Title

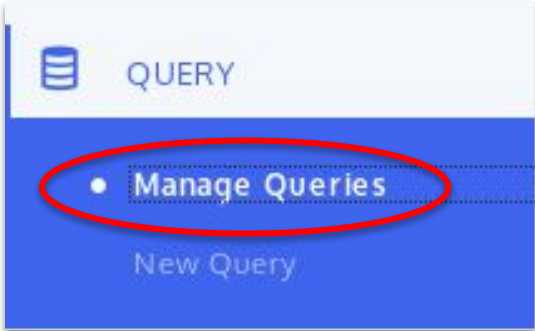
All Services
- 

2

SAVE

Save Changes

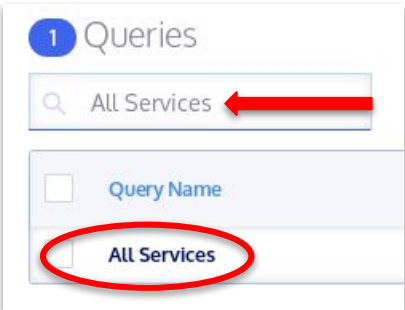
Save As New...

0 unique hosts
- 

3

QUERY

Manage Queries

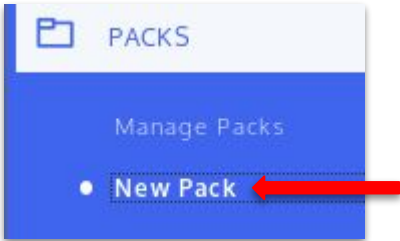
New Query
- 

4

1 Queries

All Services

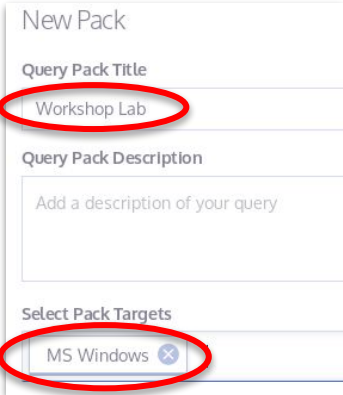
Query Name

All Services
- 

5

PACKS

Manage Packs

New Pack
- 

6

New Pack

Query Pack Title

Workshop Lab

Query Pack Description

Add a description of your query

Select Pack Targets

MS Windows

Fleet - Creating a Pack

①

Choose Query

Search: Select Query...

- AD Domain Services
- All Services**
- amsi_disabled_registry
- authorized_keys

②

All Services

Search: Select Query...

```
SELECT name,display_name
,status,start_type,path
,module_path,description
```

description

No description available.

configuration

Interval

30 seconds

Platform

Windows

minimum version

All

Logging

Snapshot

Shard

100

③

1 Query Packs

Lab

	Pack Name	Queries	Status	Hosts
<input type="checkbox"/>	Workshop Lab	1	Enabled	1

Fleet - Logging Query Results

①

```
analyst@elk:~  
File Edit View Search Terminal Help  
[analyst@elk ~]$ tail /var/log/kolide/osquery_result.log  
{ "name": "pack/Workshop Lab/All Services", "hostIdentifier": "399D4D56-E6F8-E906-F69C-A3F6C387244D", "calendarTime": "Thu Jun 27 06:21:09 2019 UTC", "unixTime": 1561616469, "epoch": 0, "counter": 0, "logNumericsAsNumbers": false, "decorations": { "host_uuid": "399D4D56-E6F8-E906-F69C-A3F6C387244D", "hostname": "dc.windomain.local", "columns": { "description": "Enables the detection, download, and installation of updates for Windows and other programs. If this service is disabled, users of this computer will not be able to use Windows Update or its automatic updating feature, and programs will not be able to use the Windows Update Agent (WUA) API.", "display_name": "Windows Update", "module_path": "%systemroot%\\system32\\wuaueng.dll", "name": "wuauserv", "path": "C:\\Windows\\system32\\svchost.exe -k netsvcs", "start_type": "DISABLED", "status": "STOPPED", "user_account": "LocalSystem", "action": "added" } }  
{ "name": "pack/Workshop Lab/All Services", "hostIdentifier": "399D4D56-E6F8-E906-F69C-A3F6C387244D", "calendarTime": "Thu Jun 27 06:21:09 2019 UTC", "unixTime": 1561616469, "epoch": 0, "counter": 0, "logNumericsAsNumbers": false, "decorations": { "host_uuid": "399D4D56-E6F8-E906-F69C-A3F6C387244D", "hostname": "dc.windomain.local", "columns": { "description": "Creates and manages user-mode driver processes. This service cannot be stopped.", "display_name": "Windows Driver Foundation n - User-mode Driver Framework", "module_path": "%SystemRoot%\\System32\\WUDFSvc.dll", "name": "wudfsvc", "path": "C:\\Windows\\system32\\svchost.exe -k LocalSystemNetworkRestricted", "start_type": "DEMAND_START", "status": "RUNNING", "user_account": "LocalSystem", "action": "added" } }  
{ "name": "pack/Workshop Lab/All Services", "hostIdentifier": "399D4D56-E6F8-E906-F69C-A3F6C387244D", "calendarTime": "Thu Jun 27 06:21:09 2019 UTC", "unixTime": 1561616469, "epoch": 0, "counter": 0, "logNumericsAsNumbers": false, "decorations": { "host_uuid": "399D4D56-E6F8-E906-F69C-A3F6C387244D", "hostname": "dc.windomain.local", "columns": { "description": "Provides authentication and authorization services for interacting with Xbox Live. If this service is stopped, some applications may not operate correctly.", "display_name": "Xbox Live Auth Manager", "module_path": "%SystemRoot%\\System32\\XblAuthManager.dll", "name": "XblAuthManager", "path": "C:\\Windows\\system32\\svchost.exe -k netsvcs", "start_type": "DEMAND_START", "status": "STOPPED", "user_account": "LocalSystem", "action": "added" } }  
{ "name": "pack/Workshop Lab/All Services", "hostIdentifier": "399D4D56-E6F8-E906-F69C-A3F6C387244D", "calendarTime": "Thu Jun 27 06:21:09 2019 UTC", "unixTime": 1561616469, "epoch": 0, "counter": 0, "logNumericsAsNumbers": false, "decorations": { "host_uuid": "399D4D56-E6F8-E906-F69C-A3F6C387244D", "hostname": "dc.windomain.local" }
```

②

```
analyst@elk:~  
File Edit View Search Terminal Help  
[analyst@elk ~]$ tail /var/log/kolide/osquery_status.log  
{ "hostIdentifier": "399D4D56-E6F8-E906-F69C-A3F6C387244D", "calendarTime": "Thu Jun 27 06:22:58 2019 UTC", "unixTime": "1561616578", "severity": "0", "filename": "scheduler.cpp", "line": "105", "message": "Executing scheduled query pack/Workshop Lab/All Services: SELECT name,display_name,status,start_type,path,module_path,description,user_account FROM services;", "version": "3.4.0", "decorations": { "host_uuid": "399D4D56-E6F8-E906-F69C-A3F6C387244D", "hostname": "dc.windomain.local" } }  
{ "hostIdentifier": "399D4D56-E6F8-E906-F69C-A3F6C387244D", "calendarTime": "Thu Jun 27 06:23:25 2019 UTC", "unixTime": "1561616605", "severity": "0", "filename": "scheduler.cpp", "line": "105", "message": "Executing scheduled query pack/Workshop Lab/All Services: SELECT name,display_name,status,start_type,path,module_path,description,user_account FROM services;", "version": "3.4.0", "decorations": { "host_uuid": "399D4D56-E6F8-E906-F69C-A3F6C387244D", "hostname": "dc.windomain.local" } }  
{ "hostIdentifier": "399D4D56-E6F8-E906-F69C-A3F6C387244D", "calendarTime": "Thu Jun 27 06:23:53 2019 UTC", "unixTime": "1561616633", "severity": "0", "filename": "scheduler.cpp", "line": "105", "message": "Executing scheduled query pack/Workshop Lab/All Services: SELECT name,display_name,status,start_type,path,module_path,description,user_account FROM services;", "version": "3.4.0", "decorations": { "host_uuid": "399D4D56-E6F8-E906-F69C-A3F6C387244D", "hostname": "dc.windomain.local" } }
```

Fleet - Filebeat Config

①

File Edit View Search Terminal Help

```
[analyst@elk ~]$ ls /etc/filebeat/  
fields.yml  filebeat.reference.yml  filebeat.yml  modules.d  
[analyst@elk ~]$
```

②

File Edit View Search Terminal Help

```
[analyst@elk ~]$ ls /etc/filebeat/modules.d/  
apache2.yml.disabled      icinga.yml.disabled      kibana.yml.disabled      nginx.yml.disabled      suricata.yml.disabled  
auditd.yml.disabled       iis.yml.disabled         logstash.yml.disabled    osquery.yml.disabled    system.yml.disabled  
elasticsearch.yml.disabled iptables.yml.disabled    mongodb.yml.disabled     postgresql.yml.disabled traefik.yml.disabled  
haproxy.yml.disabled      kafka.yml.disabled        mysql.yml.disabled        redis.yml.disabled  
[analyst@elk ~]$
```

③

File Edit View Search Terminal Help

```
[analyst@elk ~]$ cat /etc/filebeat/modules.d/osquery.yml.disabled  
- module: osquery  
  result:  
    enabled: true  
  
  # Set custom paths for the log files. If left empty,  
  # Filebeat will choose the paths depending on your OS.  
  #var.paths:  
  
  # If true, all fields created by this module are prefixed with  
  # `osquery.result`. Set to false to copy the fields in the root  
  # of the document. The default is true.  
  #var.use_namespace: true  
[analyst@elk ~]$
```

Fleet - Filebeat Config

①

```
- module: osquery
  result:
    enabled: true

    # Set custom paths for the log files. If left empty,
    # Filebeat will choose the paths depending on your OS.
    var.paths: /var/logs/kolide/osquery_result.log

    # If true, all fields created by this module are prefixed with
    # `osquery.result`. Set to false to copy the fields in the root
    # of the document. The default is true.
    var.use_namespace: false
```

②

```
[analyst@elk ~]$ sudo mv /etc/filebeat/modules.d/osquery.yml.disabled /etc/filebeat/modules.d/osquery.yml
[analyst@elk ~]$
```

③

```
[analyst@elk ~]$ vim /etc/filebeat/filebeat.yml
```


Fleet - Filebeat Config

①

```
[analyst@elk filebeat]$ sudo cat filebeat.yml
filebeat.modules:
- module: osquery

output.logstash:
  hosts: ["localhost:5045"]

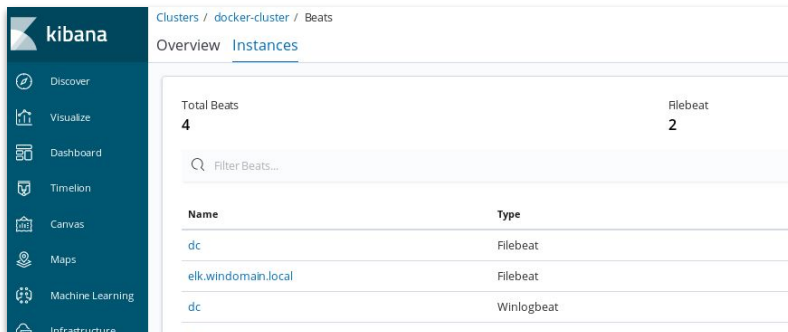
xpack.monitoring:
  enabled: true
  elasticsearch:
    hosts: ["http://localhost:9200"]
[analyst@elk filebeat]$
```

②

```
[analyst@elk ~]$ sudo filebeat modules list
Enabled:
osquery

Disabled:
apache2
auditd
elasticsearch
haproxy
icinga
iis
iptables
kafka
kibana
logstash
mongodb
mysql
nginx
postgresql
redis
suricata
system
traefik
[analyst@elk ~]$
```

③



Fleet - Filebeat Config

①

This screenshot shows the 'Create index pattern' dialog in Kibana. On the left, there is a blue button labeled 'Create index pattern' and a star icon next to the text '*winlogbeat*'. The main area is titled 'Create index pattern' and includes the text 'Kibana uses index patterns to retrieve data from'. Below this, a section titled 'Step 1 of 2: Define index pattern' contains a label 'Index pattern' and a text input field with the value '*filebeat*'.

②

This screenshot shows the 'Step 2 of 2: Configure settings' dialog. It begins with the text 'You've defined *filebeat* as your index pattern. Now you can specify'. Below this, there is a section for 'Time Filter field name' with a 'Refresh' link to its right. A dropdown menu is open, showing '@timestamp' as the selected option. At the bottom, there is a small, partially visible line of text: 'The Time Filter will use this field to filter your data by time'.

③

This screenshot shows a toolbar with three icons: a star, a circular refresh arrow, and a trash can. Below these icons is a dark button with the text 'Refresh field list'.

Fleet - Filebeat Config

Time -	_source
▼ June 27th 2019, 09:59:35.082	<pre>input.type: log log.file.path: /var/log/kolide/osquery_result.log offset: 3,230,958 host.name: elk.windomain.local @timestamp: June 27th 2019, 09:59:35.082 message: {"name":"pack/Workshop Lab/All Services","hostIdentifier":"399D4D56-E6F8-E906-F69C-A3FC387244D","calendarTime":"Thu Jun 27 07:41:56 2019 UTC","unixTime":1561621316,"epoch":0,"counter":0,"logNumericsAsNumbers":false,"decorations":{"host_uid":"399D4D56-E6F8-E906-F69C-A3FC387244D","hostname":"dc.windomain.local"},"columns":{"description":"Provides performance library information from Windows Management Instrumentation (WMI) providers to clients on the network. This service only runs when Performance Data Helper is activated."},"display_name":"WMI Performance Adapter","module_path":"","name":"wmiApSrv","path":"C:\\Windows\\system32\\wbem\\WmiApSrv.exe","start_type":"DEMAND_START","status":"STOPPED","user_account":"localSystem"},"action":"added"} @version: 1 beat.name: elk.windomain.local beat.version: 6.7.2 beat.hostname: elk.windomain.local prospector.type: log fields.log_type: osquery tags: beats_input_codec_plain_applied source: /var/log/kolide/osquery_result.log _id: m-xywW8Edoo4fUP-022 _type: doc _index: logstash-filebeat-2019.06.27 _score: -</pre>
Table	JSON
View surrounding documents	View single document
@timestamp	June 27th 2019, 09:59:35.082
@version	1
_id	m-xywW8Edoo4fUP-022
_index	logstash-filebeat-2019.06.27
_score	-
_type	doc
beat.hostname	elk.windomain.local
beat.name	elk.windomain.local
beat.version	6.7.2
fields.log_type	osquery
host.name	elk.windomain.local
input.type	log
log.file.path	/var/log/kolide/osquery_result.log
message	{"name":"pack/Workshop Lab/All Services","hostIdentifier":"399D4D56-E6F8-E906-F69C-A3FC387244D","calendarTime":"Thu Jun 27 07:41:56 2019 UTC","unixTime":1561621316,"epoch":0,"counter":0,"logNumericsAsNumbers":false,"decorations":{"host_uid":"399D4D56-E6F8-E906-F69C-A3FC387244D","hostname":"dc.windomain.local"},"columns":{"description":"Provides performance library information from Windows Management Instrumentation (WMI) providers to clients on the network. This service only runs when Performance Data Helper is activated."},"display_name":"WMI Performance Adapter","module_path":"","name":"wmiApSrv","path":"C:\\Windows\\system32\\wbem\\WmiApSrv.exe","start_type":"DEMAND_START","status":"STOPPED","user_account":"localSystem"},"action":"added"}
offset	3,230,958
prospector.type	log
source	/var/log/kolide/osquery_result.log
tags	beats_input_codec_plain_applied