Changes to Active Directory custom domains

A domain name is an important part of the identifier for many Active Directory resources. It is generally customized so that email addresses and application URIs include the name of the organization. You might need to look for changes to your Active Directory custom domains when doing the following:

- Detecting lateral movement with Active Directory data

Prerequisites

In order to execute this procedure in your environment, the following data, services, or apps are required:

- Splunk Enterprise or Splunk Cloud Platform
- Microsoft Azure Active Directory audit data
- Microsoft Azure Add-on for Splunk

Example

Your company uses SolarWinds Orion business software, which suffered the Sunburst Backdoor attack. You want to identify any lateral movement associated with the attack by hunting for changes to Active Directory custom domains.

To optimize the search shown below, you should specify an index and a time range.

1. Run the following search:

```bash
sourcetype="azure:aad:audit" activityDisplayName="Add unverified domain" OR activityDisplayName="domain"  
| stats values(activityDisplayName) AS Action, values(initiatedBy.user.userPrincipalName) AS UPN, 
values(targetResources{}.displayName) AS Target, values(targetResources{}.modifiedProperties{}.displayName) AS "Modified Resources", values(targetResources{}.modifiedProperties{}.oldValue) AS "Old Values", values(targetResources{}.modifiedProperties{}.newValue) AS "New Values" by correlationId 
| fields - correlationId
```

Search explanation

The table provides an explanation of what each part of this search achieves. You can adjust this query based on the specifics of your environment.

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### Splunk Search

```
sourcetype="azure:aad:audit"

activityDisplayName="Add unverified domain" OR activityDisplayName="*domain*"
```

### Explanation

- **Search only Azure Active Directory audit data.**
- **Search for the domain-related actions shown.**

<table>
<thead>
<tr>
<th>stats values(activityDisplayName) AS Action, values(initiatedBy.user.userPrincipalName) AS UPN, values(targetResources{}.displayName) AS Target, values(targetResources{}.modifiedProperties{}.displayName) AS &quot;Modified Resources&quot;, values(targetResources{}.modifiedProperties{}.oldValue) AS &quot;Old Values&quot;, values(targetResources{}.modifiedProperties{}.newValue) AS &quot;New Values&quot; by correlationId</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculate aggregate values for the modified properties as shown and group results by correlationId and action.</td>
</tr>
<tr>
<td>fields - correlationId</td>
</tr>
<tr>
<td>Remove the correlationId field from the results.</td>
</tr>
</tbody>
</table>

### Result

The [Microsoft Azure Add-on for Splunk](https://www.splunk.com) has additional searches and pre-built security content for Azure data that can help you interpret these results and take additional steps to resolve security concerns related to changes to your Active Directory custom domains.

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