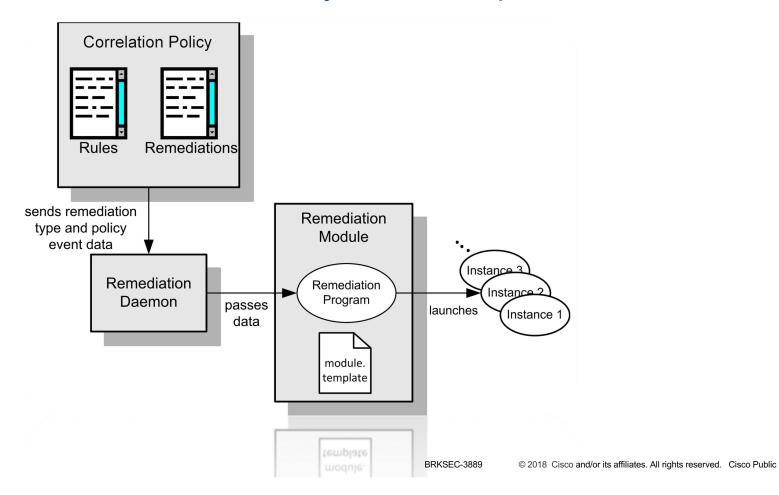
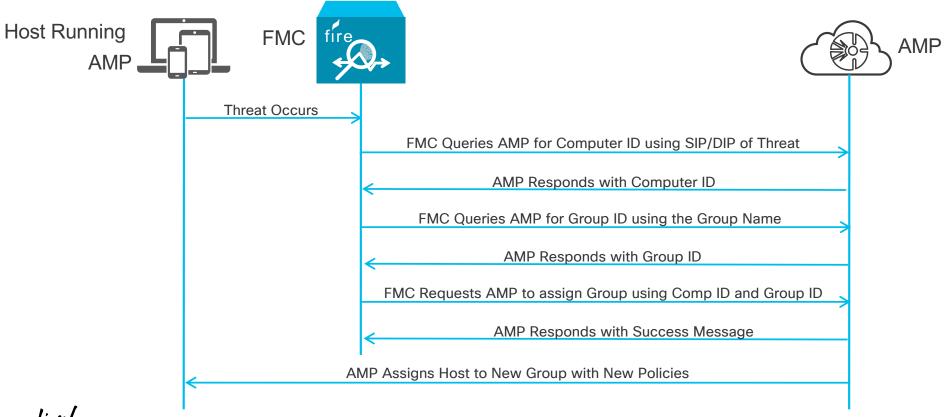
Firepower Remediation Subsystem Components



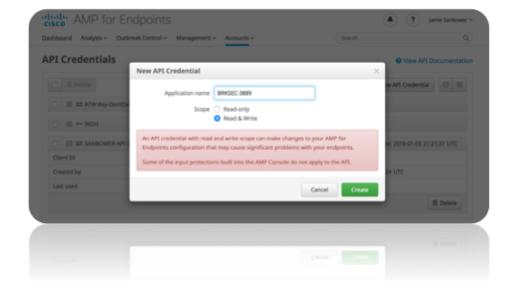


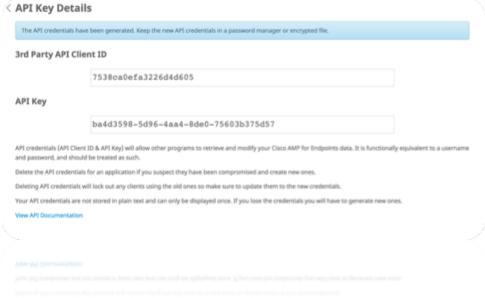
CUSTOM: AMP Rapid Threat Containment Overview



Create a new API Credential in AMP Cloud

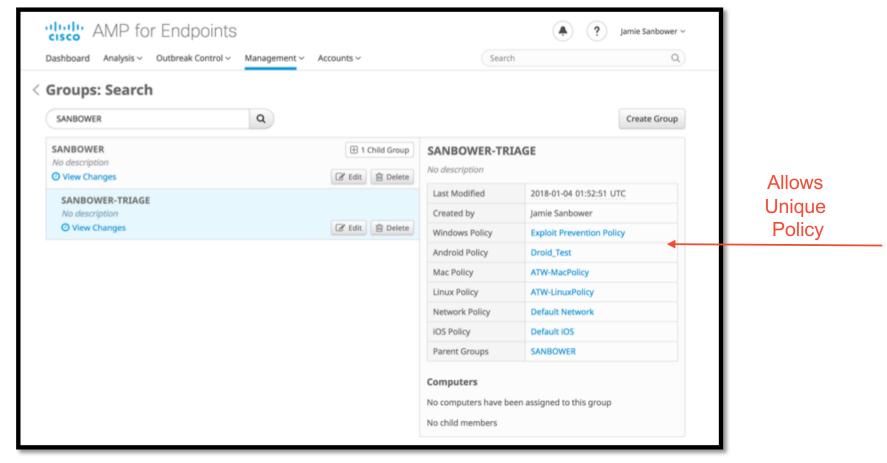
Accounts > API Credentials





Create a new "Quarantine" Group in AMP Cloud

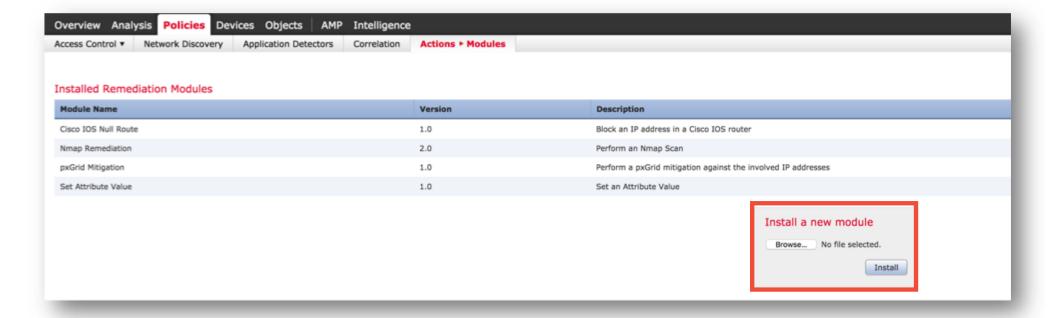
Management > Groups > Create Group





Add AMP Remediation Module to FMC

Policies > Actions > Remediation > Modules





Add AMP Remediation Module to FMC

Policies > Actions > Remediation > Modules



Installed Remediation Modules

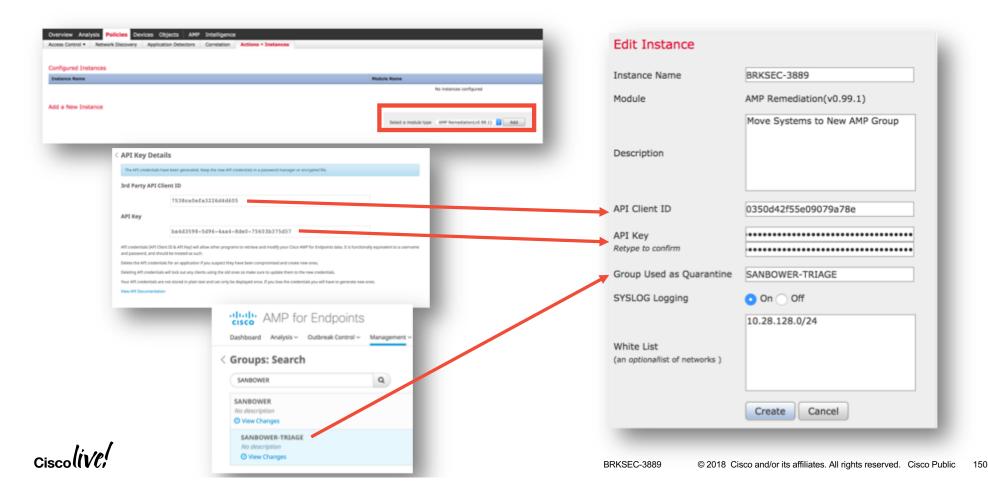
Module Name	Version	Description
AMP Remediation	0.99.1	Change AMP Computer Group by IP addresses using AMP Cloud
Cisco IOS Null Route	1.0	Block an IP address in a Cisco IOS router
Nmap Remediation	2.0	Perform an Nmap Scan
pxGrid Mitigation	1.0	Perform a pxGrid mitigation against the involved IP addresses
Set Attribute Value	1.0	Set an Attribute Value





Add a New Instance of AMP Remediation Module to FMC

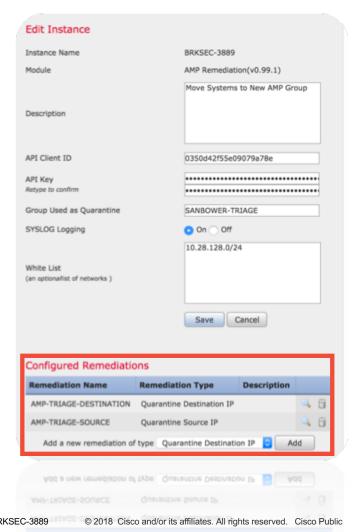
Policies > Actions > Remediation > Instances



Add Remediation Type to FMC

Policies > Actions > Remediation > Instances

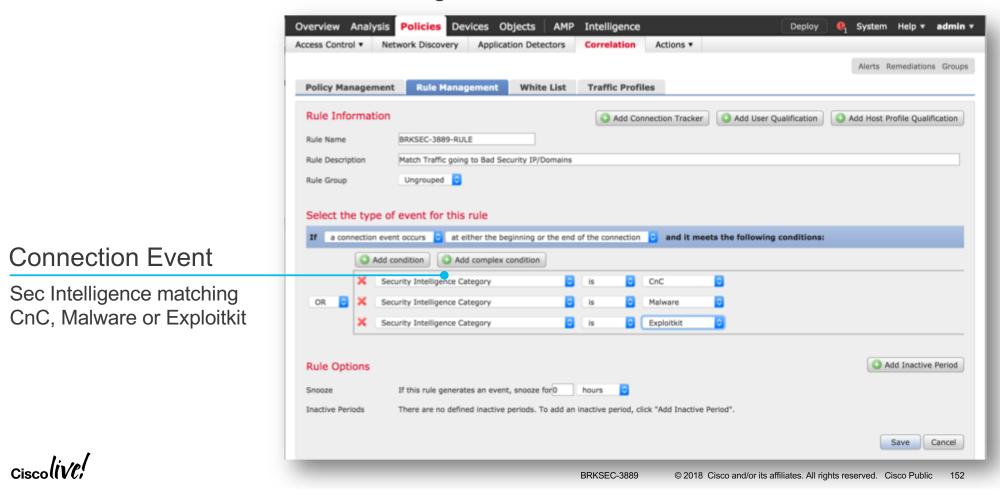
- Destination Based Remediation
 - Used when admin wants to quarantine the target/destination of an event
 - · E.G. Malware Download
- Source Based Remediation
 - Used when admin wants to quarantine the attacker/source of an event
 - E.G. Host becomes pivot point and starts launching attacks





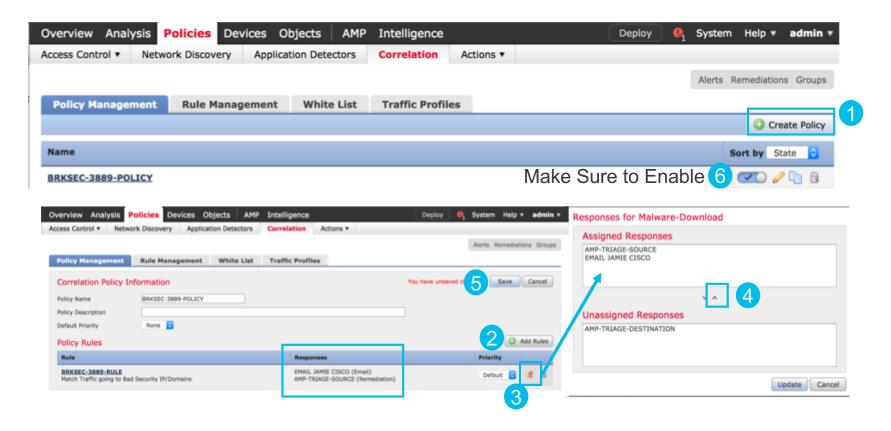
Create Correlation Rule

Policies > Correlation > Rule Management > Create Rule



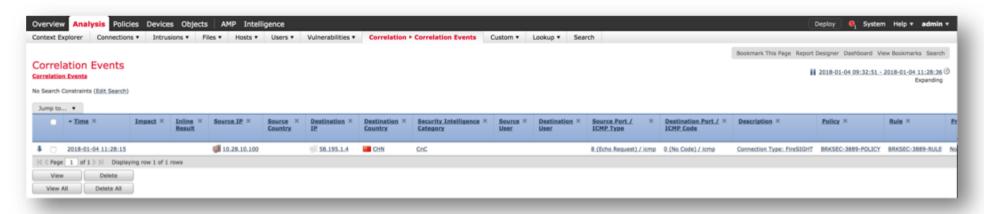
Create Correlation Policy

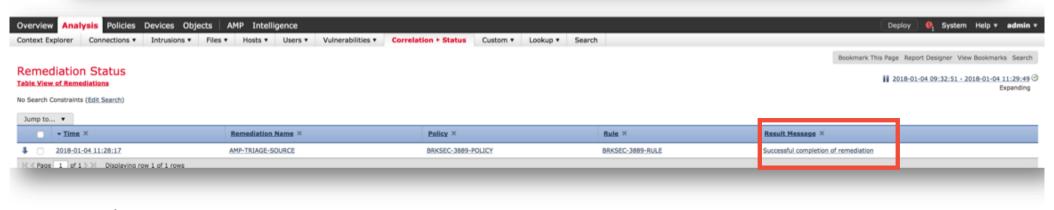
Policies > Correlation > Policy Management > Create Policy





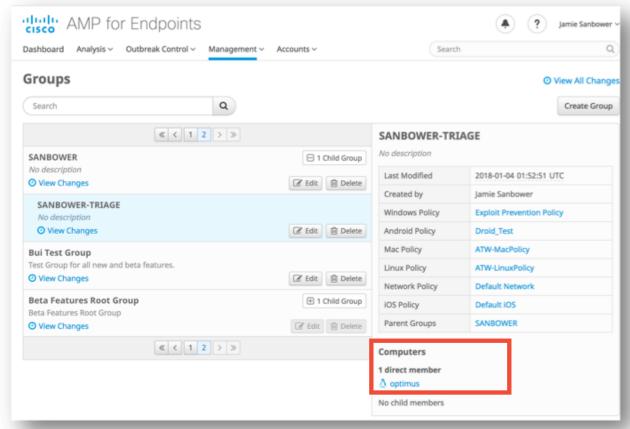
Test Configuration





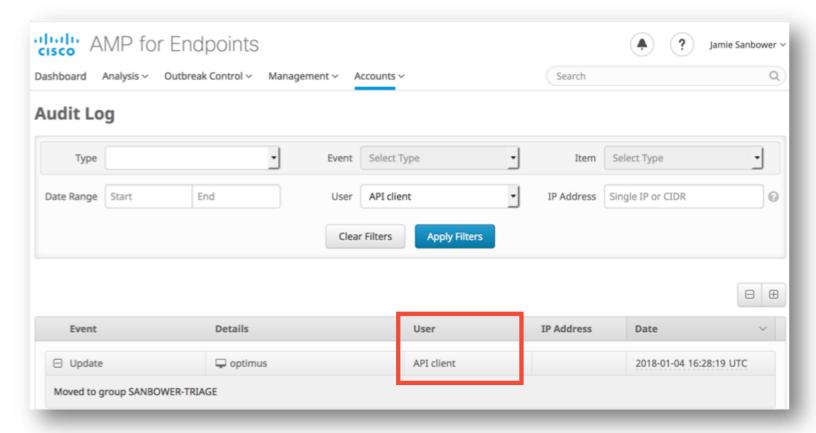


Validate Changes in AMP





Validate Changes in AMP





AMP Remediation Module

```
# Main
                                                       # Load Config File
         Load Instance Configuration
                                                       # FOR TESTING USE THE INSTANCE name my $config_file = './JAMIE/instance.conf';
                                                       my $config_file = "instance.conf";
        API Parameters, Group Name, Whitelist
                                                       # Get and save the program name, without path
                                                       my prog = 0;
                                                       $prog =~ s/^.*\///;
                                                       # Show usage if not enough parameters
                                                       if (@ARGV < 5)
Get Parameters Passed from Policy
                                                          warn("Usage: $prog <remediation_type> <ip> <policy> <rule_id> <sid>\n\n");
                                                          exit(INPUT_ERR);
               IPs that needs to be Quarantined
                                                       # Get the parameters
                                                       my ($rem,
                                                                          # Remediation type
                                                                          # Address to be killed
                                                          $ip,
                                                          $policy,
                                                                          # Compliance Policy that called this remediation
                                                                          # Compliance Rule that called this remediation
                                                          $rule,
                                                          $sid) = @ARGV;
                                                                          # SID that fired (if this was an intrusion event based rule)
                                                       # create xml object
                                                       my $xml = new XML::Simple;
                                                       my $data = $xml->XMLin($config_file, ForceArray=>['network_li', 'string']);
 Read the Config File into Variables
                                                       # Move Data into variables
                                                       my $apiclient = $data->{config}->{string}->{user_name}->{content};
                                                       my $apikey = $data->{config}->{password}->{content};
                                                       my $groupname = $data->{config}->{string}->{group_name}->{content};
                                                       my $log = $data->{config}->{boolean}->{content};
```



AMP Remediation Module

```
logInfo('Starting AMP remediation');
                                         # Whitelist Check
                                         if ($data->{config}->{list}->{network_li}) {
                                             foreach my $list (@{$data->{config}->{list}->{network_li}}) {
                                             my $netblock = Net::Netmask->new($list);
                                                 if ($netblock->match($ip)) {
         Whitelist Check
                                                     logInfo("Whitelist match ($ip is in $netblock): Remediation aborted");
                                                     print "Whitelist match ($ip is in $netblock): Remediation aborted\n" if $debug;
        "Do Not Modify" IP List
                                  110
                                                 exit(WHITELIST);
                                         # Call our subs that makes the requests.
                                         my $compid = get_compID();
           Main Program
                                         my $groupid = get_groupID();
                                         my $returnstatus = set_group($compid,$groupid);
                                  120
                                  122
                                         logInfo("AMP Remediation Success: $returnstatus");
                                         exit;
Final Status Reporting
                                         # if we get here something unhandled happened...
                                         logWarn("We encountered an unhandled exception: $returnstatus");
                                         exit(UNDEF);
```



AMP Remediation Module

```
# Get Computer UID
          sub get_compID
{
                                             Easy Accomplished in sh, Python, Go, etc.
                                                                                                                                                                                                                                                                                                         API Credentials
                                                                                                                                                                                                                                                                                                                                                                                             API URL
                                                             s -k -X GET -H 'accept: application/json' -H 'content-type: application/json' --compressed -H 'Accept-Encoding: gzip, deflate' -u $apiclient:$apikey
                                                                                                                                                                                                                                                                                                                                                            'https://api.amp.cisco.com/vl/computers?internal_ip=$ip'
                           if ($results == /"total":8/) {
                           warn("The Computer was NOT found in the AMP Cloud");
                           logInfo('The Computer was NOT found in the AMP Cloud');
                                  exit(INPUT_ERR);
                  } elsif ($results =~ /error_code":401/) {
                           warn("Unuauthorized AMP API Credentials");
                                          logInfo('Unuauthorized AMP API Credentials');
                                                                                                                                                                                                Use IP and Get Computer ID from AMP Cloud
                                          exit(2);
                          $results =~ s/.*connector_guid":"({^"}*).*/$1/gi;
print "Computer ID: :$results\n" if $debug;
return $results;
          sub get_groupID
                           my $results = 'curl -s -k -X GET -H 'accept: application/json' -H 'content-type: application/json' —compressed -H 'Accept-Encoding: gzip, deflate' -u $apiclient:$apikey 'https://api.amp.cisco.com/v1/groups?name=$groupname'';
if ($results = ^-, quid*;"'([?"]|s).*/) {
    print "Group ID: $1\n" if $debug;
                                          return $1;
                                                                                                                                                                                                Use Group Name and Get Group ID from AMP Cloud
                                          warn("The Group was NOT found in the AMP Cloud");
                                          logInfo('The Group was NOT found in the AMP Cloud');
73 sub set_group
74 + {
                                                                                                                                                                                                Assign new Group using Comp ID and Group ID
                  my $results = 'curl -s -k -X PATCH -H 'accept: application/json' -H 'content-type: application/json' -
                   return("Put IP:$ip($comp) intto $groupname($group)");
```



https://github.com/QuiLoxx/ATS-APIs