Barracuda Content Shield 30 Day Evaluation Guide

https://campus.barracuda.com/doc/86542739/

Barracuda Content Shield (BCS) delivers a powerful web and file threat protection solution along with content filtering. Both multi-tenant (for MSPs) and single-tenant (for non-MSPs) versions are available with either a *BCS* or *BCS Plus* subscription. Features available with each subscription type are compared in the table below. This article guides you through a thorough evaluation of the service.

When you are ready to convert your 30 day trial to a valid licensed subscription, see Converting Your Trial Subscription to a Valid License.

In this article you'll find initial steps for getting started with DNS filtering, creating basic policies, testing the BCS agent on endpoints (if you have a BCS Plus subscription), and optional synchronization of your LDAP/AD with BCS. If you have a BCS Plus subscription, you can also take advantage of Advanced Filtering Policies using agent-based filtering on user endpoints.

Feature Comparison

FEATURE	CONTENT SHIELD	CONTENT SHIELD PLUS
Easy setup	✓	✓
Protection from web-based threats	✓	✓
Web content filtering	✓	✓
Endpoint malware protection		✓
SSL inspection		✓
Heuristic file analysis		✓
Policy based on individual user		✓
Reporting based on individual user		✓
Remote user support		✓
LDAP/Azure AD support		✓

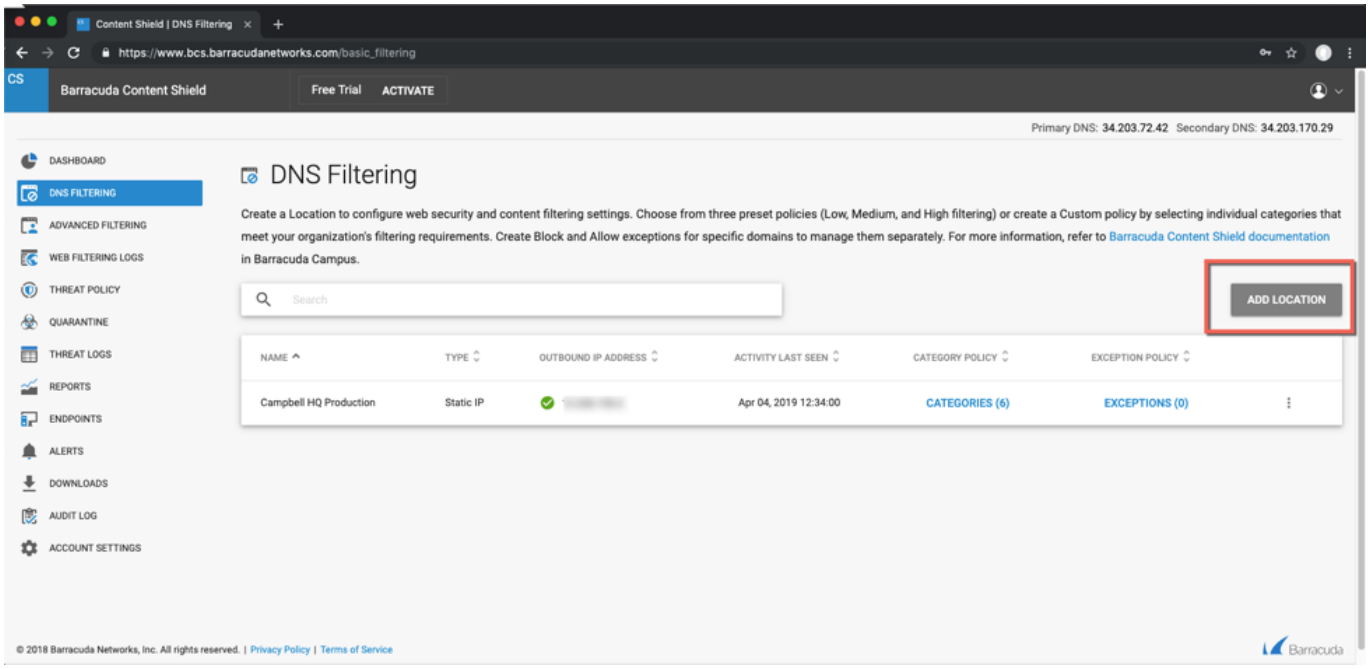
After you sign up for a free trial at https://www.bcs.barracudanetworks.com/trial, you have 30 days use of a fully featured *BCS Plus* subscription. After creating your account for the free trial, you can log in at https://www.bcs.barracudanetworks.com/login.

To set the time zone for your BCS instance (note that this setting also applies to ALL of your Barracuda Cloud products), see How to Set the Time Zone.

Step 1. Configure BCS DNS Based Filtering

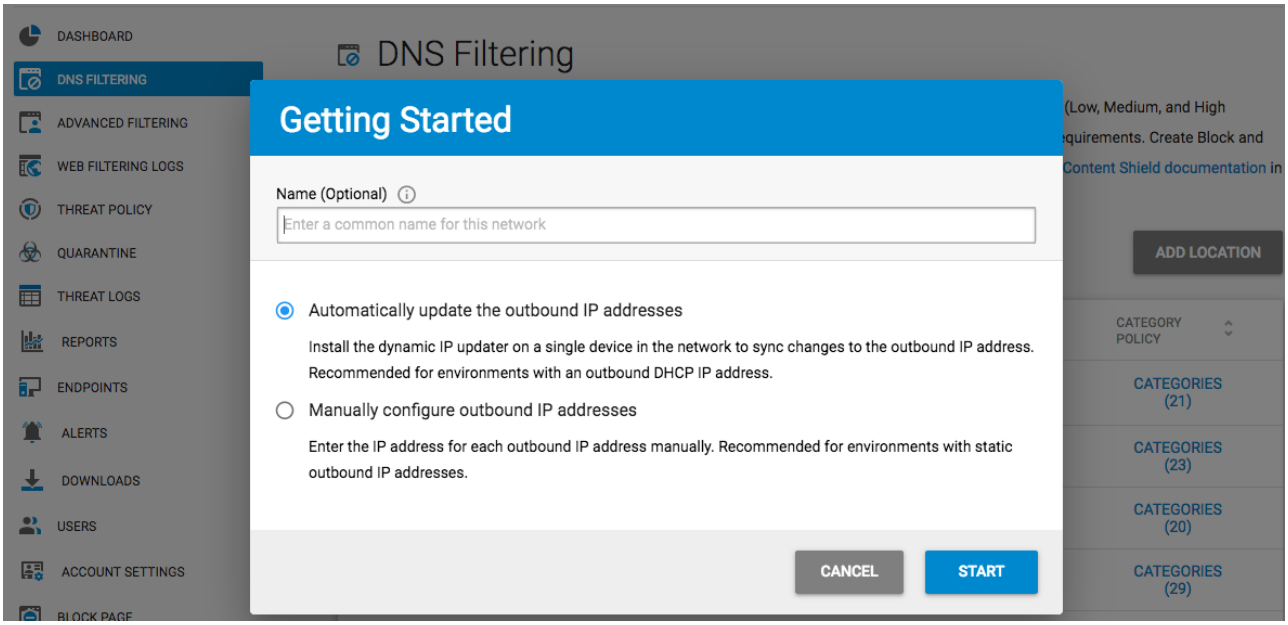
DNS filtering offers the ability to set a blanket policy for an entire network based on the network's egress IP address. DNS filtering introduces no latency to internet bound traffic, and can control any device type without installing an agent or having administrative control of the device. The BCS service will not respond to DNS requests from unregistered networks, so the first step is to register your egress IP address with BCS. If you are unsure of your egress IP address, you can use a site like **whatismyip.com** to determine what it is.

Navigate to the **DNS filtering** page using the left navigation menu and select **ADD LOCATION**. Follow steps in the wizard to complete adding the location.



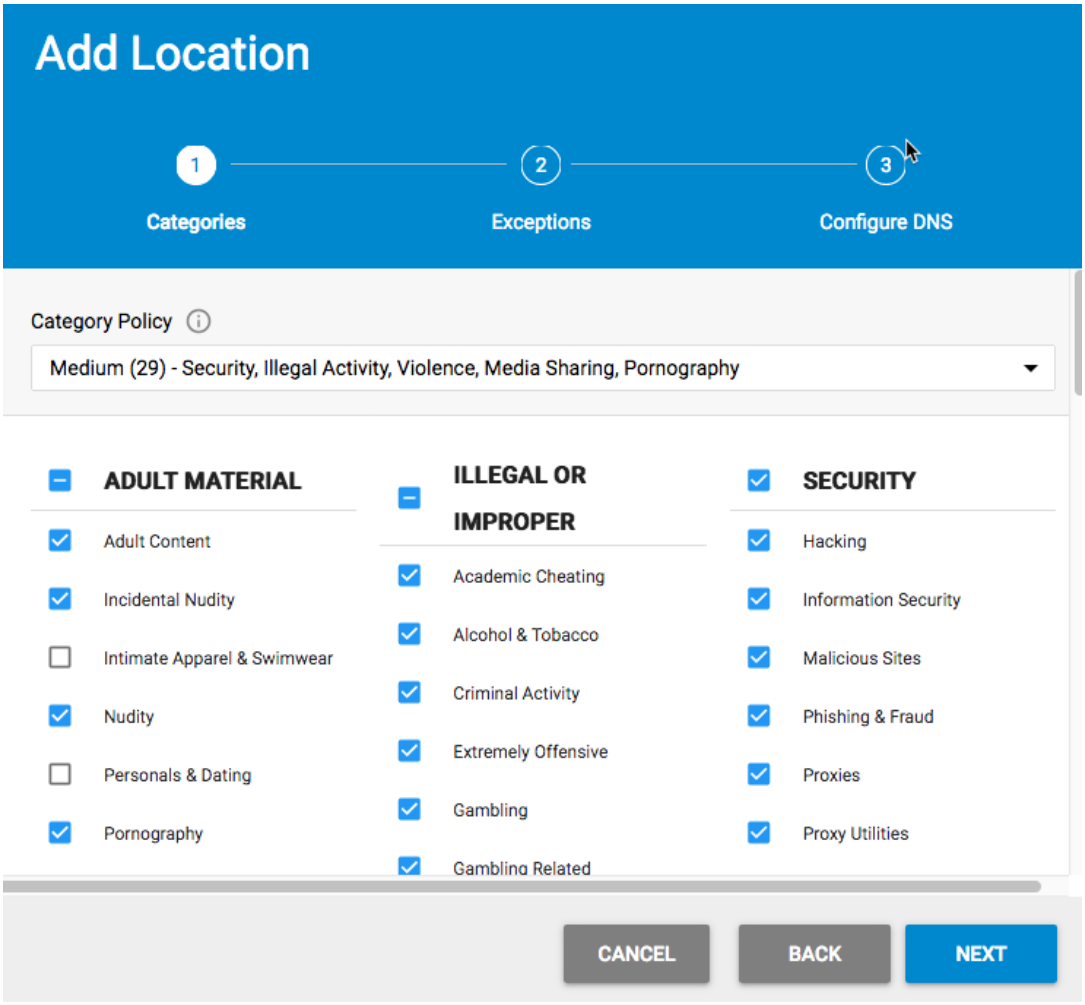
The first step is to configure the IP address, either automatically or manually, in the **Getting Started** popup:

- Use the *Manual* setting if your ISP provides a static IP address that does not change. Click **Start**, and follow the prompts in the wizard.
- Use the *Automatic* setting if your ISP provides a dynamic IP address. Click **Start**, and follow the prompts in the wizard. In this case, you must install the Dynamic IP updater on a single machine that permanently resides within the environment. This allows the BCS service to be updated automatically when your IP address changes. The final step of the wizard provides links to download the Dynamic IP updater and installer key.
  See How to Configure DNS Filtering and Policies for details.



Step 2. Create a Filtering Policy

1. In the **Add Location screen** of the wizard, select one of the preset category policies, or modify one to create a custom policy that meets your requirements. See How to Configure DNS Filtering and Policies for details.
   TIP: If you create a custom policy, it is saved in the list of category policies which can be used later if you add additional locations. This allows you to easily duplicate the same policy across your locations in the future, and there is no limit on the number of locations you can add in one BCS account.



2. When you click **Next**, you have the opportunity to create any *block* or *allow* exceptions to your category policy. These can be made in the form of domains (ex: *google.com*) or subdomains (ex: *mail.google.com*) There is no need to specify protocols like HTTP or leading with www. Exceptions take precedence over category policies and can be set to *block* or *allow*.
3. The final step shows the DNS servers that you will provide to all of the clients on the network being filtered. Barracuda recommends initially setting these DNS servers manually on the systems you are going to test policy with. After you are satisfied with your policy, these DNS servers can be added to your DHCP server, which can then pass out the Barracuda DNS IP address to clients connecting to your network. Alternatively, if you have your own internal DNS server, you can set that up as a conditional forwarder. This allows your DNS server to resolve any internal resources and forward any requests to the BCS service for external resources and filtering based on your set policy. See How to Configure a Local DNS Server to Forward to Barracuda DNS Nameservers for details.

Step 3. Evaluate Agent-Based Protection at the Endpoint

The BCS Suite is an agent that can be installed on endpoint computers to enable the BCS Plus features. The suite for Windows provides two agents; either one, or both, can be installed. The Web

Filtering Component (WFC) controls web traffic and the Malware Prevention Component (MPC) provides file-based security. If an agent is used inside a network that also has a DNS filtering policy, the agent policy takes precedence over the DNS network-based policy. The agent allows for a more granular policy, supporting user- and group-level rules in addition to the global 'Everyone' rule set. You can download the BCS suite from the **DOWNLOADS** page and install it on the endpoints.

- For Windows: Both the WFC and MPC components are available and either or both can be used on the endpoint. See How to Manage Deployment of the Barracuda Content Shield Suite for Windows.
- For macOS: Only the WFC component is available for web filtering on the endpoint. See How to Download and Install the Barracuda Content Shield Suite for macOS.

For Chromebooks, see How to Get and Configure Barracuda Chromebook Security for BCS.

Agent-based web filtering

The BCS web filtering component is an agent that uses a proxy-free architecture, so user traffic is not handled by the service directly. Rather, the agent identifies the user who is logged in, checks with the BCS service for which policy should be applied for that user and/or groups the user belongs to, and then caches the policy locally. The agent enforces the policies you configure on the **Advanced Filtering** page and uploads log files periodically to the service. The agent also checks periodically for updates to the policy settings. After installing the agent and defining the policy, test the policy. Keep in mind that when making policy changes, it can take up to 15 minutes to synchronize policies with the agent on the endpoint.

Optionally Synchronize your LDAP or Azure AD Connection

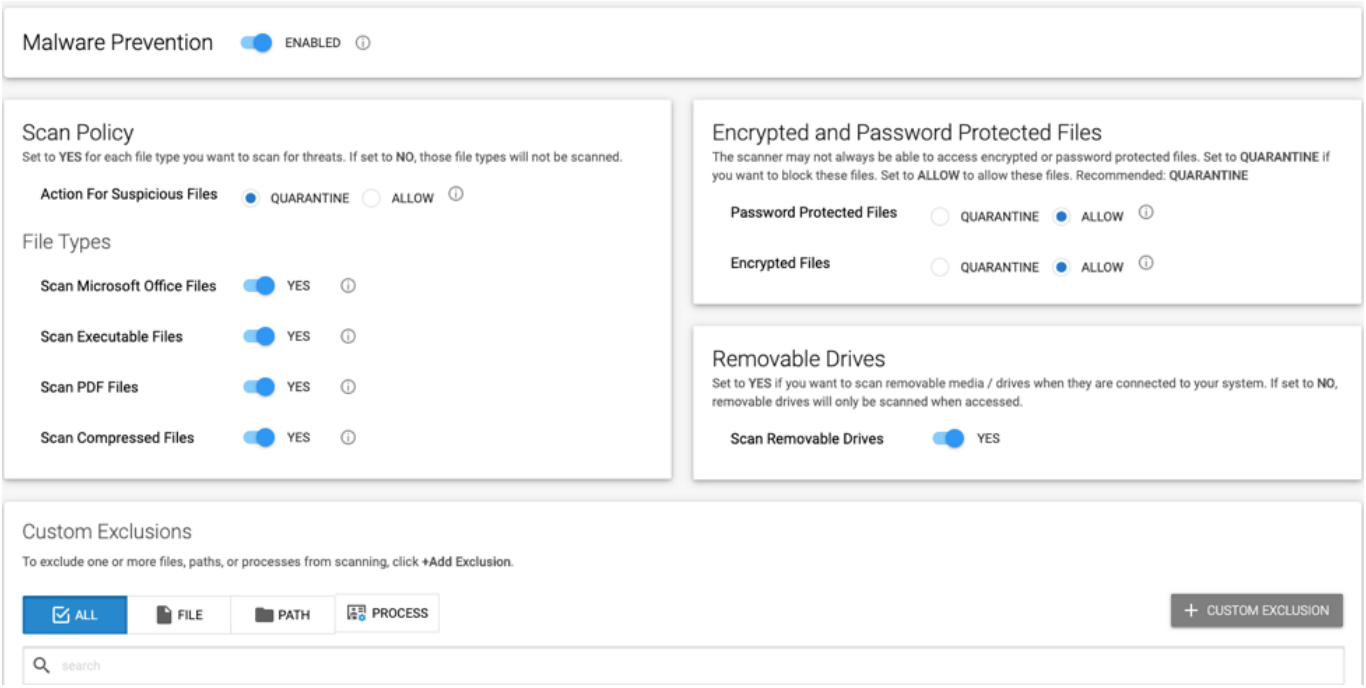
If you want to create user-based or group-based filtering policies, you can synchronize your users and groups with the service for web filtering by first configuring an LDAP or Microsoft Azure Active Directory connection in Barracuda Cloud Control (BCC). See LDAP Active Directory and Barracuda Content Shield for details (if you already have a BCS account, you can log into BCC with your BCS credentials). Without a directory service, only the *Everyone* (default) policy will be applied to endpoints with the agent installed. BCS has a local user database which can be used in place of a directory service (see Manually Configure Local Users).

After the directory service is configured, verified, and synchronized, you will be able to select from a list of users and groups for whom to create policy. When the agent is installed on a domain–joined computer and a domain user logs into the computer, that username is matched with the user in the directory. If a policy is defined for that user or a group they belong to, then that policy is synchronized to the agent. If no specific policy is defined for that user, or for a group they belong to, then only the *Everyone* policy will be synchronized and applied locally.

Optionally Install and Configure File Content Protection

The BCS file content protection agent (for Windows) can scan existing file-based threats on the

endpoint and quarantine them, preventing the user from accessing the file. There can be exclusions set up for file path, process, or file name. Configure on the **THREAT POLICY** page.



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