



WATSSA

West Australian Technical Support in Schools Association

INSTALLING FASTVUE

[Simple Internet Usage Reporting for Fortinet Fortigate \(fastvue.co\)](http://fastvue.co)





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4. Version Control:

Version #		Edit By	Comments
1		Michael Raymond	First draft for setting up Fastvue Reporter
1.2		Michael Raymond	Added LDAP/Email/Securing
1.3		Michael Raymond	Updated Syslog server settings/SMTP Email

Metadata:

Created On: 27/04/2021 1:13:00 PM

Updated On: 16/03/2023 2:11 PM

Last Edit By: RAYMOND Michael [Duncraig Senior High School]



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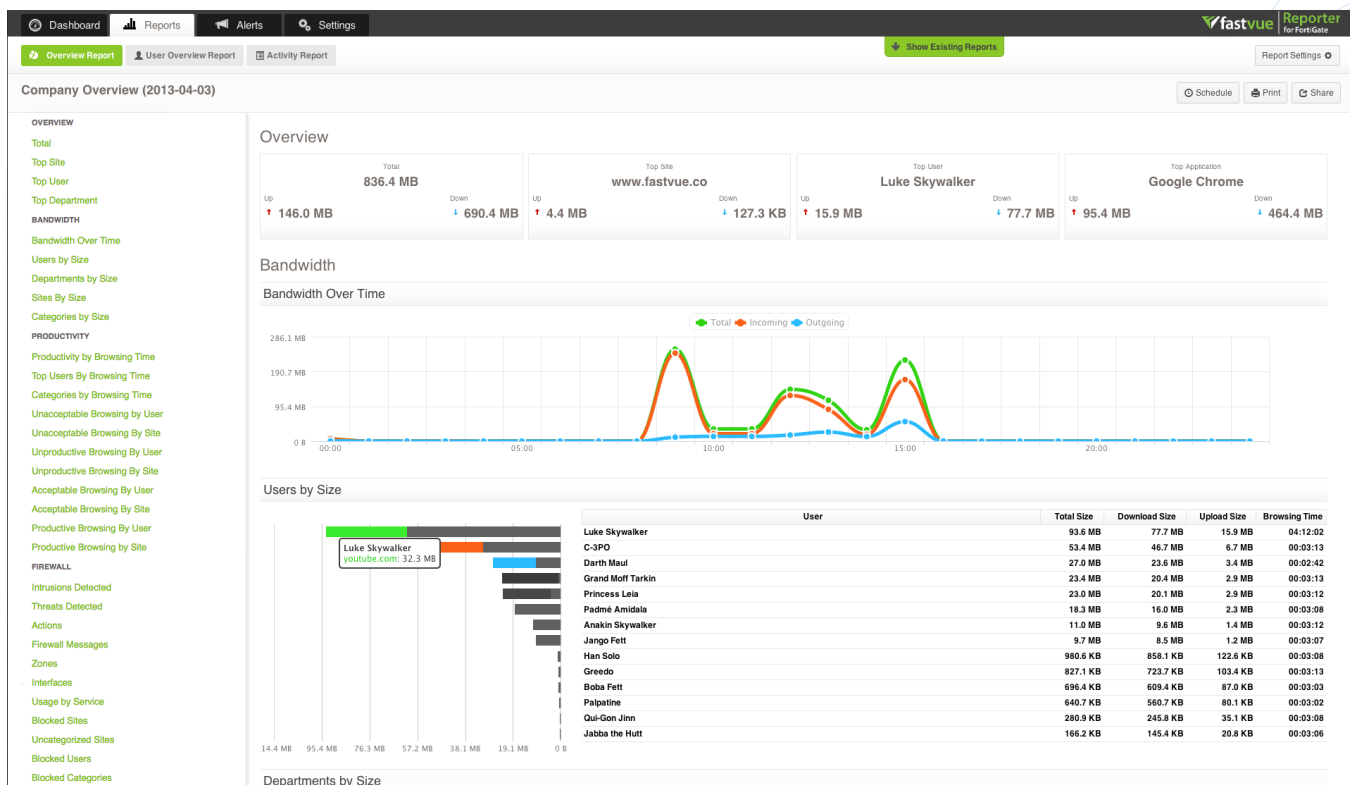
Introduction:

Fortigate Reporting Simplified!

You don't need to be a log analysis expert to understand Fastvue Reports. Designed for HR, Teachers, Department Managers and IT.

For Education

Safeguard students by monitoring access to self-harm, extremist, or inappropriate content.





1. Download and Install

[Download Fastvue Reporter for FortiGate](#) and **install** on a machine (or virtual machine) that meets our recommended requirements for your network size.

Note: Fastvue Reporter is a resource intensive application by design in order to import data and run reports as fast as possible. We do not recommend installing Fastvue Reporter on a server that provides a critical network service such as a Domain Controller, DNS server, or DFS server. We recommend installing on a dedicated VM (virtual machine) so you can scale the resources appropriately.

Supported Operating Systems

Fastvue Reporter is designed for **64 bit Windows Server Operating Systems** running **Windows Server 2012 R2, or above**.

Network Size Recommended Server Specification

Below 500 Users	4 CPUs/Cores, 6 GB RAM
500 – 1000 Users	4 CPUs/Cores, 8 GB RAM
1000 – 3000 Users	8 CPUs/Cores, 12 GB RAM

Recommended Server IP 10.x.x.126

This will help ICT Service desk when setting up the SIG. You can use a different IP but we recommend going with a standard across all schools.

The Fastvue Reporter installer will automatically install and configure the required pre-requisites which include .Net 4.6 and IIS (Web Server and Application Server roles). It will also install Open JDK and Elastic search in its own self-managed directory.

When installing, you will be asked to select a website to install too. If you are installing on a server with existing websites, we recommend creating a new website in IIS and installing to that. You can also choose to install to a sub-folder of an existing website (such as Default Web Site\Fastvue).

To install Fastvue Reporter:

1. Double-click the downloaded setup exe on a machine that meets the above recommendations
2. Proceed through the installation wizard to install the software. The installation wizard will ask you for:
 - **Installation folder** (defaults to C:\Program Files\Fastvue\Reporter for FortiGate). Only application files are installed to this folder. It does not require much disk space.



- **Website and Virtual Directory** (defaults to 'Default Web Site'). If you have other websites installed on your server, it is a good idea to install Fastvue Reporter to a virtual directory such as 'fastvue' or 'fortigatereports'. Then you can access the site at <http://yourserver/fastvue> for example and it does not interfere with any other site on your server.
- **Data Location** (defaults to C:\ProgramData\Fastvue\Reporter for FortiGate). This is the location where all imported data, configuration and report files are stored. Specify a location with plenty of disk space.

2. Add the Fastvue Server as a Syslog Server in Fortinet FortiGate

Now that Fastvue Reporter for FortiGate has been installed, you need to add configure your Fortigate to send syslog data to the Fastvue server. To do this you will have to log a job with Customer service centre, [Home - ICT Self-Service Hub \(service-now.com\)](http://service-now.com)

Ask them to add the Fastvue Server as a Syslog Server on the FortiGate

Also ask them to configure Webfilter profiles for logging

Fortigate will have 5 or 6 Webfilter Profiles that need to be edited, please add these to your ticket.

= Your Site Code

####-AllStudents,	####-AllStaff	####-BlockYouTube
####-YouTube	####-SocialBlock	####-AllVisitors

Once this has been done on the Fortigate you are ready to set your Fastvue server to receive the logs.

3. Add a Source

Add the FortiGate as a Source in Fastvue Reporter. This can be done on the start page that is presented after installation, or in **Settings | Sources | Add Source**.



Add a FortiGate Source

Ensure FortiGate is sending syslog messages to the Fastvue Reporter for FortiGate Server. Then add the FortiGate as a source below.


FortiGate Host or IP

192.168.100.1

Syslog Port

514

☐ Import historical logs as well? 

 Add Source

It may take 10-20 seconds before the first records are imported. You can watch the records and dates imported in **Settings** | **Sources**. Once records start importing, you can go to the Dashboard tab to see your live network traffic.

4. Directory / LDAP settings

Active Directory Settings

The Fastvue Reporter for FortiGate server queries Active Directory on a regular basis to retrieve user and department information.

Tick **"Use Specified Domain Controller"**

Set the Server to your site RODC, ie. **E####S01SV001** (Where E#### is your school code)

leave the port unchanged (**389**)

See image



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☒ On ☐ Off

E4129S01SV001

- ☐ Use Default Domain Controller
☒ Use Specified Domain Controller

Server

E4129S01SV001

Port

389

SSL

- ☐ Use SSL connection to LDAP server

Search DN (optional)

OU=School Users,DC=blue,DC=schools,DC=internal



OU=School Managed,OU=Groups,OU=E4129S01,OU=Schools,DC=blue,DC=schools,DC=internal



[+ Add Another Search DN](#)

Username (Use Domain\Username format)

Password

☒ Save Changes

[+ Add LDAP Source](#)

Search DN

Set this to:

OU=School Users,DC=[Your Domain Colour],DC=schools,DC=internal

Add another Search DN and add:

OU=School Managed,OU=Groups,OU=[School site code],OU=Schools,DC=[Domain Colour],DC=schools,DC=internal

Save the changes. It will take a while for Fastvue to sync all of the users and domains



5. Email Settings

For best practice your school should always use a **distribution list** email address to send emails from. (In the example you can see Duncraig SHS is using the IT Support email group.)

Make sure you add one associated to your school. If you don't have one you can request one through the Service Desk - [Request Catalogue - ICT Self-Service Hub \(service-now.com\)](#)

Email Server:

Schools are now required to have their own SMTP e-mail gateway

Port:

587

Click on the "Send Test Email" to make sure your setting are correct and then [Save]

Email Settings

Mail Settings

Fastvue Reporter for FortiGate likes to email you from time to time. What SMTP details should it use?

Email Server

smtp.server.com


Port

587

Send emails from this address

notifications@duncraigshs.wa.edu.au


Username (optional)

 Change Password

Use a secure connection (SSL/TLS)?



[Send Test Email](#)

 Save

Mail Notifications

Who should receive emails from the Fastvue Reporter for FortiGate server?

System Notifications

duncraig.shs.itsupport@education.wa.edu.au


* errors, subscription expiry etc

Alerts

* can be changed for each alert [here](#)

Reports

* also configured on the [Report Settings page](#)

 Save

You can configure Mail Notifications here too. The example has "**Errors and System faults**" configured. But we leave the "**Alerts**" and "**Reports**" as they can be better configured under the Alerts and Reports tabs in Fastvue



6. Secure the Fastvue Reporter interface with login credentials!

You can secure the Fastvue Reporter site to administrators, and allow others to simply view reports, using Windows Authentication and Authorization rules in IIS.

Enable Windows Authentication

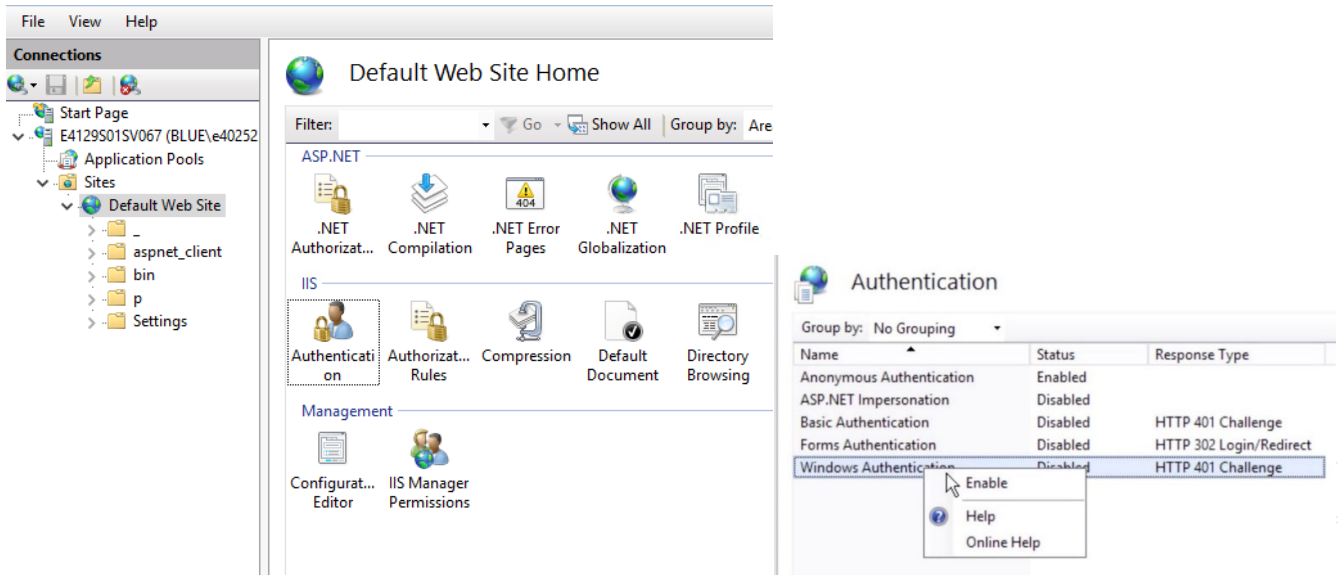
We need to enable IIS to Authenticate visitors to the Fastvue Reporter site using **Windows Authentication**.

We can use DAM groups on the Fastvue Server. One for **Admins** and another for **Viewers**. Fastvue Admins should contain anyone that needs full access to the entire application, and Fastvue Viewers should contain only people that need to view reports.

For the Admin group we will use: **E####S01-IntranetAdministrators**. And for the Viewers group we'll use: **E####S01-AdministrationStaff** & **E####S01-TeachingStaff**. You may want to use different DAM groups in you Viewer group but we will use these in our example.

To do this:

1. Go into **IIS Manager**, and select the **Fastvue Reporter** site or virtual directory.
2. Ensure 'Features' view is selected at the bottom of the middle pane and double-click **Authentication**.
3. Right click '**Windows Authentication**' and select **Enable**. And right click '**Anonymous Auth**' and select **Disable** (If Windows Authentication is not in the list, you need to add the 'Windows Authentication' Role Service in **Server Manager | Web Server (IIS) | Role Services**).

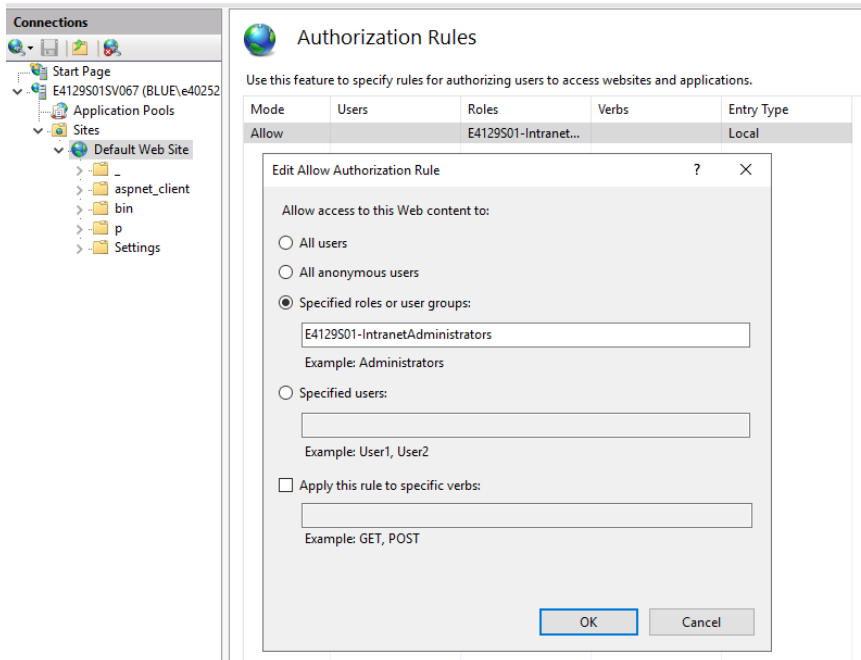


Add Authorization Rule for Admins

Now you need to add an authorization rule to allow the **Fastvue Admins** group to the entire website

To do this:

1. Select the Fastvue site or virtual directory on the left to return to the IIS features view, then double-click **Authorization Rules**. If Authorization Rules is not in the list, you need to add the 'URL Authorization' Role Service in **Server Manager | Web Server (IIS) | Role Services**.
2. Delete the rule to allow All Users, and add a rule to **Allow** the **Admins** group. In our case the **[E4129S01-IntranetAdministrators]** group from DAM



Add Authorization Rules for Report Viewers

Now you need to add authorization rules to allow the **Viewers** group access to the **/p** and **/_** folders within the Fastvue Reporter website.

*Why? When you share a report using the 'Private Link' option, it gets shared from within the **/p** folder. Access to the **/_** (underscore) folder is also required, as it includes the script files and other assets that are required for the Fastvue Reporter site to function.*

1. Open the Fastvue Reporter site on the left hand side and select the **/p** folder. Double-click **Authorization Rules** and add a rule to **Allow** the **Viewers** groups. **[E4129S01-AdministrationStaff,E4129S01-TeachingStaff]**
2. Select the **/_** (underscore) folder in the Fastvue Reporter website. Double-click **Authorization Rules** and add a rule to **Allow** the **Viewers** groups.



Connections

- Start Page
- E4129S01SV067 (BLUE\ea40252)
 - Application Pools
 - Sites
 - Default Web Site
 - aspnet_client
 - bin
 - p
 - Settings

p Home

Filter: [v] Go [v] Show All Group by: Area

ASP.NET

- .NET Authorizat...
- .NET Compilation
- .NET Error Pages
- .NET Globalization
- .NET Profile
- .NET Roles

IIS

- Authentic...
- Authorizatio n Rules
- Compression
- Default Document
- Directory Browsing
- Error Pages

Management

- Configurat... Editor

Edit Allow Authorization Rule ? X

Allow access to this Web content to:

☐ All users

☐ All anonymous users

☒ Specified roles or user groups:

E4129S01-TeachingStaff,E4129S01-AdministrationStaff

Example: Administrators

☐ Specified users:

Example: User1, User2

☐ Apply this rule to specific verbs:

Example: GET, POST

OK Cancel

File View Help

Connections

- Start Page
- E4129S01SV067 (BLUE\ea40252)
 - Application Pools
 - Sites
 - Default Web Site
 - aspnet_client
 - bin
 - p
 - Settings

Authorization Rules

Use this feature to specify rules for authorizing users to access websites and applications.

Mode	Users	Roles	Verbs	Entry Type
Allow		E4129S01-TeachingStaff,E4129S01-AdministrationStaff		Local
Allow		E4129S01-IntranetAdministrators		Inherited

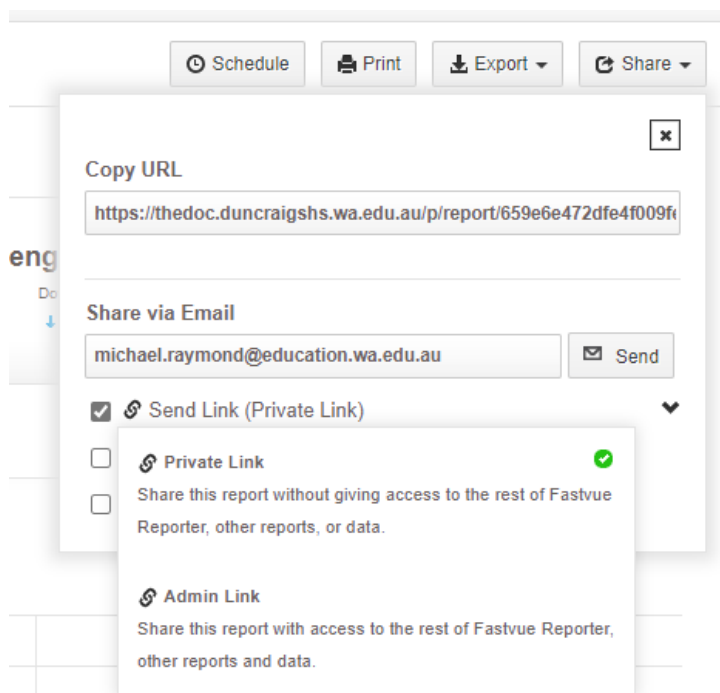


Test

If you're logged into Windows with a user account from an **Admins** group, you'll still be able to access the entire Fastvue Reporter interface. If not, you'll be prompted for authentication details, and denied access if the credentials supplied are not in the **Admins** group.

If you have a Private Report link, and you are logged into Windows with a user account in the **Viewers** group, you'll be able to access the report, as well as hover over items and run further reports. The secondary reports they will always be bound by the data set of the original report. In other words, if you have received a report filtered by your department, you won't be able to run reports on anyone outside of your department or on any other data.

You can find the Private Link option when sharing and scheduling reports.



Now you can explore all the features of Fastvue Reporter for FortiGate.