

## Janet Services for Resilience

Andrew Davis

Network Services Coordinator

Email: [andrew.davis@ja.net](mailto:andrew.davis@ja.net)



# What we can do to help ...

---

- Janet services
  - Primary Nameserver Service
    - Backup Master
    - Automatic Failover (to alternative web-server/s)
  - Secondary Nameserver Service
  - Backup MX (feature of the Janet Mailer Shield Service)
  - Backup Web Hosting
  - Web Hosting
  - SMS
  - 3G



# Janet Primary Nameserver Service

---

- Free to Janet Primary connected organisations
- Provides a good basic DNS service and easy and quick to setup
- “Self service” administration web portal or full support from Janet
- Manage multiple domains from one account
  - Largest account currently hosting 160 domains
- Ability to use portal from most network connected devices.
  - Can't access your network and need to change a record...
- Not suitable for Dynamic DNS requirements



# Janet Web-DNS Admin portal

janet

[Logout](#)  
[Module Index](#)

[Apply Zone Changes](#)  
[View Logfile](#)  
[Logout](#)

## Edit Master Zone

ansg.nsf.ac.uk

 | [Return to zone list](#)

Type	Records	Type	Records
<a href="#">Address</a>	1	<a href="#">Well Known Service</a>	0
<a href="#">Name Server</a>	2	<a href="#">Responsible Person</a>	1
<a href="#">Name Alias</a>	2	<a href="#">Location</a>	0
<a href="#">Mail Server</a>	0	<a href="#">Service Address (SRV)</a>	0
<a href="#">Host Information</a>	0	<a href="#">Public Key</a>	0
<a href="#">Text</a>	0	<a href="#">IPv6 Address</a>	0
<a href="#">Text (Sender Permitted From)</a>	3	<a href="#">All</a>	10



[Edit Records File](#)



[Edit Zone Parameters](#)



[Edit Zone Options](#)



[Record Generators](#)

Check Records

Click this button to have BIND check the records in this zone, and report on any problems.

Check Updates

Check updates since the last backup of this zone.

 | [Return to zone list](#)



[Logout](#)  
[Module Index](#)

## Edit Records File

[Apply Zone Changes](#)  
[View Logfile](#)  
[Logout](#)

/usr/local/bind/zones/ansg.nsf.ac.uk/ansg.nsf.ac.uk

This form allows you to manually edit the DNS records file /usr/local/bind/zones/ansg.nsf.ac.uk/ansg.nsf.ac.uk.  
No syntax checking will be done by Webmin, and the zone serial number will not be automatically incremented.

```
#####
; After installing and editing this for the first time, run:-
;
; ~root/scripts/WA/allow-xfers
;
; This creates the required xxx.auto files.
;
; NOTES:-
;
; If the zone is not for BCP, you should create non-empty file 'MASTER' in
; the users config directory to prevent the 'switch-to-secondary' option.
;
; If the zone can be either MASTER or SLAVE, you should configure it with
; both master and slave attributes, but leave one commented out. This is the
; default in the TEMPLATE 'conf' files.
;
#####
$TTL      86400
@         IN      SOA      ns11.ja.net. hostmaster.ns11.ja.net. (
                                2000000073
```

☒ Increase serial number automatically

Save

[← Return to record types](#)



## DNS Services – Backup Master

---

- Free to all Janet Primary connected organisations
- Allows you to continue updating your DNS records when your locally hosted Primary DNS server fails
- Using the Web Admin portal
  - Run Janet NS as a slave (ensure regular zone transfers from your Primary)
  - If local DNS services are not available logon to the Janet Backup Master and toggle the JBM into “Master mode”
  - Perform functions such as redirecting web traffic to an alternative site...
  - End of incident toggle back into “Slave mode” and start advertising your normal zone. The Janet NS don't push back to your Primary, won't have to undo emergency changes



## DNS Services – Automatic Failover

---

- Must use Janet Primary DNS server, includes delegated sub-domains
- Primarily aimed at monitoring web servers
- How it works
  - Monitors an associated IP address using a special TXT record
  - Setup resource record i.e. dr.orgname.ac.uk and delegate to Janet
  - Create the records for the failover (we can help) i.e. Primary and backup IP addresses using e.g. www.dr.orgname.ac.uk
  - Add delegation within orgname.ac.uk for the sub domain with the Janet nameservers
  - Finally change the A record for www.orgname.ac.uk to a CNAME to www.dr.orgname.ac.uk





## Janet Secondary Nameserver Service

---

- Free of charge to Janet connected organisations
- Provides an off-site nameserver as a backup to the PNS service
- Is available to all organisations .ac.uk domains
- One telephone call sets the service up.
- Minimal site configuration
  - Just permit zone transfer from your Primary NS to our off-site secondary NS
  - Check zone transfers are working





- Allows organisations to store incoming e-mail on Janet storage
- Intended as a short-term solution, days not weeks!
- Stores all e-mail including SPAM if no user list provided!
- Managed release of e-mail when production mail-servers come on-line.



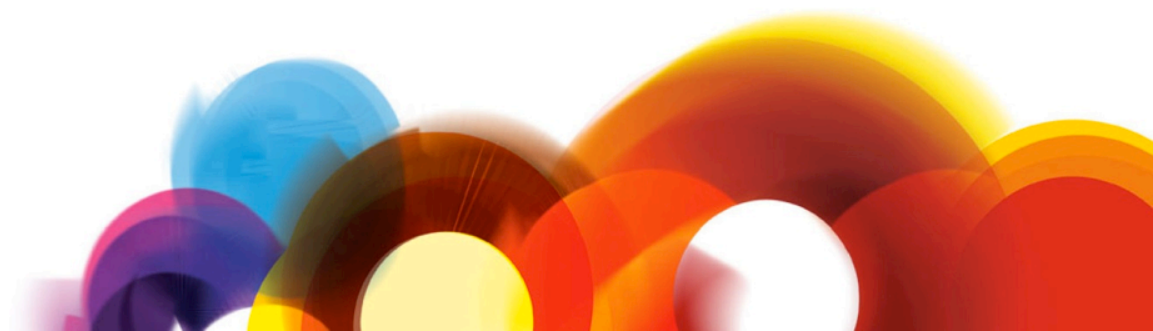
## Backup Web Hosting

---

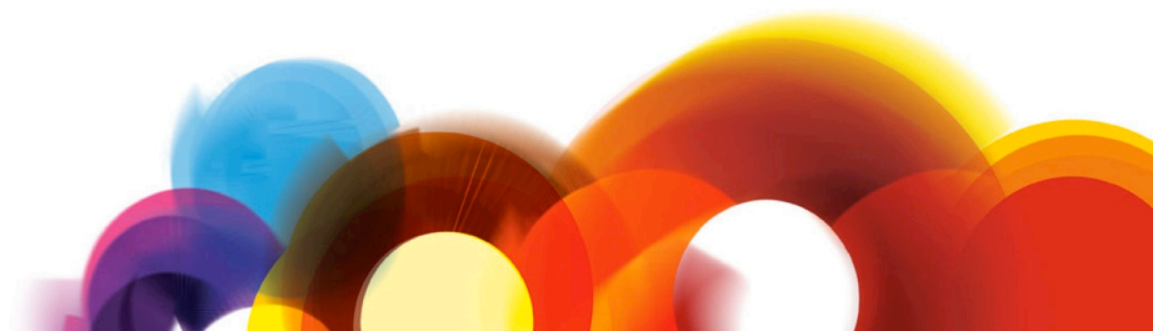
- To enable organisations to maintain a static web-page in the event of loss of their connection to their web site server
- Ability to edit and maintain a static web-page
- Some Organisations put links to their Social Media pages as a way of communicating with their audience.



- To enable organisations to maintain a website without the need to run their own server.
- Enable organisations to have an off-site contingency web site.
- Windows 2008 or Linux Redhat
- Available to other organisations on a chargeable basis.  
Currently £195.00 (ex VAT) per annum for 10GB of storage



- A service which facilitates the sending and receiving of SMS text messages to and from relevant groups and individuals
- Web based service
  - self provisioning tool from the Master account allows for up to 500,000 messages to be purchased in one go
- No annual licence fee
- New lower cost of 3.7ppt as of 1<sup>st</sup> April 2014



- unique feature of Janet 3G is its capability to support authentication against the same backend systems as your eduroam service
- Support for eduroam authentication can be switched off
- Ability to use own IP address space
- Static IP address
- Public IP address
- Wide variety of tariffs



Any Questions ?





THANK YOU

[andrew.davis@ja.net](mailto:andrew.davis@ja.net)