**Puppet Configuration Parameters**

**Global Section: [main]**

These parameters apply globally to all Puppet components unless overridden in more specific sections.

1. **certname**
   * Specifies the name Puppet uses to identify the node.
   * Default: Fully Qualified Domain Name (FQDN).

Example:  
*certname = puppet.example.com*

1. **server**
   * Specifies the Puppet server (master) the agent connects to.

*Example:  
server = puppet.example.com*

1. **logdir**
   * Specifies the directory where logs are stored.

*Example:  
logdir = /var/log/puppet*

1. **vardir**
   * Specifies the directory for variable data, like facts, catalogs, and reports.
   * Default: /var/lib/puppet.
2. **confdir**
   * Specifies the directory for configuration files.
   * Default: /etc/puppetlabs/puppet.
3. **environment**
   * Sets the environment for the agent or master, determining which manifests and modules to use.

Example:  
environment = production

1. **modulepath**
   * Specifies the path(s) where Puppet looks for modules.

*Example:  
modulepath = /etc/puppetlabs/code/modules:/opt/puppetlabs/puppet/modules*

1. **hiera\_config**
   * Specifies the path to the Hiera configuration file.

*Example:  
hiera\_config = /etc/puppetlabs/code/hiera.yaml*

**Agent Section: [agent]**

These parameters control the behavior of Puppet agents.

1. **runinterval**
   * Defines how often the agent applies configurations.

*Example:  
runinterval = 1800 # Every 30 minutes*

1. **report**
   * Enables or disables sending reports to the server.
   * Default: true.

*Example:  
report = true*

1. **noop**
   * Runs the agent in "no-operation" mode, showing what changes would be made without applying them.

*Example:  
noop = true*

1. **use\_cached\_catalog**
   * Tells the agent to use a cached catalog if the server is unavailable.

*Example:*

*use\_cached\_catalog = true*

1. **pluginsync**
   * Synchronizes plugins (e.g., custom facts or resource types) from the server.
   * Default: true.
2. **certname**
   * Overrides the global certname for this agent.
3. **splay**
   * Adds a random delay to agent runs to prevent all agents from contacting the server simultaneously.
   * Default: false.
4. **splaylimit**
   * Maximum time (in seconds) to delay the agent run.

*Example:  
splaylimit = 300*

**Master Section: [master]**

These parameters control the behavior of the Puppet server.

1. **dns\_alt\_names**
   * Specifies additional DNS names the server's certificate should include.

*Example:  
dns\_alt\_names = puppet,puppet.example.com*

1. **environmentpath**
   * Specifies the directory where environments are stored.

*Example:  
environmentpath = /etc/puppetlabs/code/environments*

1. **autosign**
   * Enables automatic signing of agent certificates.

*Example:  
autosign = true*

1. **storeconfigs**
   * Enables storing configurations in PuppetDB.
   * Default: false.

*Example:  
storeconfigs = true*

1. **storeconfigs\_backend**
   * Specifies the backend for storing configurations (typically puppetdb).
2. **node\_terminus**
   * Determines how the master finds information about nodes.

Example:  
node\_terminus = exec

7. **external\_nodes**

* To specify the path of the external script that is to be run by the master before sending the catalog (works with node\_terminus = exec).

Example:

external\_nodes = /etc/puppetlabs/puppet/node.rb

**PuppetDB Parameters**

These parameters are used when integrating with PuppetDB.

1. **server\_urls**
   * Specifies the URL(s) for PuppetDB.

Example:  
*server\_urls = https://puppetdb.example.com:8081*

1. **soft\_write\_failure**
   * Allows the agent to continue without errors if PuppetDB fails to store data.
   * Default: false.
2. **terminus**
   * Specifies the backend for storing reports and facts (e.g., puppetdb).

**Other Common Parameters**

1. **disable\_warnings**
   * Suppresses specific warnings.

*Example:  
disable\_warnings = deprecations*

1. **strict**
   * Enforces strict error checking.

Example:  
strict = warning

1. **trusted\_node\_data**
   * Enables trusted node data for agent-to-server communication.
   * Default: false.
2. **certname**
   * Specifies the certificate name used for secure communication.