

SOFTWARE DEVELOPMENT

There are few sectors as demanding and dynamic as software development. Software developers are required to adopt ever changing tools and methodologies, while being forced within the constraints of a traditional IT infrastructure. NodeWeaver brings you the best advantages of public clouds with a total flexibility of deployment and a fixed cost. Completely API driven, NodeWeaver supports equally well traditional development and DevOps, Windows and Linux environments, including VDI and Desktop-as-a-Service models for thick IDEs and desktop emulators.

Unlimited testing and staging

NodeWeaver's software-defined storage and networking allows developers to create entire insulated staging and testing environments – fully synthetic, with predictable performance and enforceable limits. Manage everything from GUI, CLI or API with enforceable access controls.

Autoscaling and Dependencies

NodeWeaver integrates a complete multi-tier scheduler, with dependencies, roles and automated scaling, organizing services into complex structures called Flows. Manage automated network configuration and autoscaling rules based on CPU, memory or connection usage; take advantage of the Gate introspection mechanism to provide information to the orchestrator and activate external services on demand.

The screenshot shows the 'Create Service Template' interface. It has several sections:

- Name:** Hadoop
- Description:** Service configured to run a Hadoop setup
- Network Configuration:** A sub-section with 'Private' (Private Network for internal communication) and 'Public' (Public IP Addresses) options.
- Roles:** Two roles are defined: 'Master' and 'Slave'.
- VM template:** CentOS 6.6
- VMs:** 3
- Network Interfaces:** Checked for 'Private' and 'Public'.
- Parent roles:** Checked for 'Master'.
- Buttons:** 'Reset' and 'Create' at the bottom.

Rapid provisioning of complex VMs and containers

NodeWeaver can create complex VM with local configuration based on user-defined variables and with activation scripts called contexts. Easily automate deployment of services like blogs or legacy VMs, or integrate containers in the workflow through our docker-machine integration.

The screenshot shows the 'User Inputs' configuration section. It contains two input fields:

- BLOG_TITLE:** Type 'text', Description 'WordPress Blog title'.
- WP_PASS:** Type 'password', Description 'WordPress admin password'.
- Buttons:** '+ Add another attribute' at the bottom.

Fully API driven

All the resources created and managed by NodeWeaver can be controlled through our extensive API, covering VMs, templates, virtual network and any object defined by the user within the platform. Easily spin VMs and storage, control users and scaling, allocate virtual switches and networks – from any external service or an internal VM.

Resource controls

Limit what VMs can see and take – through IOPS and bandwidth limits, using the integrated quota, accounting and chargeback services. Administer resources on a physical or organizational scale and control overallocation of resources or runaway usage.

Developers' desktops

Using Windows for development or a desktop IDE? NodeWeaver integrates a full VDI and DaaS platform within. Take advantage of the same security, flexibility and speed of your VMs for your development environment as well, and allow access from everywhere through our integrated HTML5 gateway.