

# Devforge - AI Environment Meeting Minutes

<b>Date and time of the meeting</b>	Monday 28th July at 11am
<b>Names of attendees and absentees</b>	Gokul - Present Nishal - Present Kshitij - Present Yash - Present Martins - Present
<b>Key discussion points</b>	<b>Main Topic</b> <ul style="list-style-type: none"><li>- System config tools done for windows, linux with test cases</li></ul>
<b>Decisions made</b>	<ul style="list-style-type: none"><li>- Question, where can I find a list of tools that we can install, what file?</li><li>- What we have in test4 to get it pushed to main, try integrate my tool with test 4.</li></ul>
<b>Next meeting details (if set)</b>	(Standup Call) each day proposed at 10 am Wednesday.

## ✅ What Features Your Windows Version Supports

- ✅ Check an environment variable ( `check_env_variable` )
- ✅ Set an environment variable ( `set_env_variable` )
- ✅ Append to `PATH` ( `append_to_path` )
- ✅ Remove a path from `PATH` ( `remove_from_path` )
- ✅ Remove environment variable ( `remove_env_variable` )
- ✅ List all environment variables ( `list_env_variables` )
- ✅ Check if a port is open ( `is_port_open` )
- ✅ Check if a service is running ( `is_service_running` )

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```
tests/test_windows_system_config.py::test_check_env_variable_existing PASSED [ 10%]
tests/test_windows_system_config.py::test_check_env_variable_missing PASSED [ 20%]
tests/test_windows_system_config.py::test_set_env_variable PASSED [ 30%]
tests/test_windows_system_config.py::test_remove_env_variable PASSED [ 40%]
tests/test_windows_system_config.py::test_append_to_path PASSED [ 50%]
tests/test_windows_system_config.py::test_remove_from_path PASSED [ 60%]
tests/test_windows_system_config.py::test_is_port_open_free_port PASSED [ 70%]
tests/test_windows_system_config.py::test_is_service_running_valid PASSED [ 80%]
tests/test_windows_system_config.py::test_is_service_running_invalid PASSED [ 90%]
tests/test_windows_system_config.py::test_list_env_variables PASSED [100%]

===== warnings summary =====
..\..\..\AppData\Local\Packages\PythonSoftwareFoundation.Python.3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\site-packages\trio\_core\_multierror.py:511
  C:\Users\Marti\AppData\Local\Packages\PythonSoftwareFoundation.Python.3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\site-packages\trio\_core\_multierror.py:511: RuntimeWarning: You seem to already have a custom sys.excepthook handler installed. I'll skip installing Trio's custom handler, but this means MultiErrors will not show full tracebacks.
    warnings.warn(

-- Docs: https://docs.pytest.org/en/stable/how-to/capture-warnings.html
===== 10 passed, 1 warning in 5.96s =====
```

- ✓ What Features Your Windows Version Supports
- ✓ Check an environment variable (check\_env\_variable)
- ✓ Set an environment variable (set\_env\_variable)
- ✓ Append to PATH (append\_to\_path)
- ✓ Remove a path from PATH (remove\_from\_path)
- ✓ Remove environment variable (remove\_env\_variable)
- ✓ List all environment variables (list\_env\_variables)
- ✓ Check if a port is open (is\_port\_open)
- ✓ Check if a service is running (is\_service\_running)

## 1. Check an Environment Variable

What it does: Verifies if a specific environment variable exists and shows its value.

Example:

```
cli-agent run "Check if JAVA_HOME is set"
```

Expected Result:

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Step 1: tool\_action\_wrapper  
status: success  
variable: JAVA\_HOME  
value: C:\Program Files\Java

---

## 2. Set an Environment Variable

What it does: Creates or updates an environment variable persistently.

Example:

```
cli-agent run "Set TEST_ENV to HelloWorld"
```

Expected Result:

```
status: success  
variable: TEST_ENV  
value: HelloWorld
```

---

## 3. Append to PATH

What it does: Adds a new directory to the PATH environment variable.

Example:

```
cli-agent run "Add C:\DevTools\bin to PATH"
```

Expected Result:

```
status: success  
message: Path added  
path: C:\DevTools\bin
```

---

## 4. Remove a Path from PATH

What it does: Removes a specific directory from PATH if present.

Example:

```
cli-agent run "Remove C:\DevTools\bin from PATH"
```

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Expected Result:

```
status: success
message: Removed C:\DevTools\bin from PATH
```

(Or `status: info` if it wasn't there)

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## 5. Remove an Environment Variable

What it does: Deletes an environment variable permanently.

Example:

```
cli-agent run "Remove environment variable TEST_ENV"
```

Expected Result:

```
status: success
message: TEST_ENV removed
```

---

## 6. List All Environment Variables

What it does: Displays all environment variables and their values.

Example:

```
cli-agent run "List all environment variables"
```

Expected Result:

```
status: success
variables:
  JAVA_HOME: C:\Program Files\Java
  Path: C:\Windows\System32;C:\Program Files\Java\bin;...
  USERNAME: Marti
  ...
```

---

## 7. Check if a Port is Open

What it does: Tests whether a TCP port is in use on localhost.

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Example:

```
cli-agent run "Check if port 80 is open"
```

Expected Result:

```
status: in_use  
port: 80
```

(Or `status: free` if nothing is using it)

---

## 8. Check if a Service is Running

What it does: Verifies if a Windows service is active.

Example:

```
cli-agent run "Is the Windows Update service running"
```

Expected Result:

```
status: running  
service: wuauserv
```

(Or `status: not_running` if it's stopped)

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## BONUS: Multiple Actions in One Command

Example:

```
cli-agent run "Set TEST_ENV to HelloWorld and check if port 80 is in use"
```

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## Does Your Current Tool Support This?

Based on the code we reviewed:

- Your `system_config` tool currently supports:
  - `check` (for env vars)
  - `set` (for env vars)
  - `append_to_path` / `remove_from_path`
  - `is_port_open`
  - `is_service_running`
  - `list_env` / `remove_env`

✅ It does NOT include any functionality to:

- Install Java versions
- Upgrade/downgrade Java
- Check Java version

That functionality is handled by your `install`, `update`, and `version` tasks in the MCP server, not `system_config`.