

Solution M3: Salt

Resources used for this solution include:

- Salt Documentation - <https://docs.saltproject.io/en/latest/ref/states/all/index.html>
- Vagrant Documentation - <https://www.vagrantup.com/docs/provisioning/salt>

As usual, this is not neither the only, nor the most remarkable way of solving the challenge. Instead, it is just one way that gets the things done. Yours may be different, and still correct

Solution Task #1

This solution uses one machine based on the **shekeriev/centos-stream-9** box

The following files are part of the solution:

task-1

```
|— minionfiles
|   └─ minion.yml -> Settings for the minion that will run on the virtual machine
|— roots
|   └─ base.sls   -> The base state that will be applied
|       └─ top.sls -> The link between the host and the state
└─ Vagrantfile    -> Vagrantfile to create the whole environment
```

The solution offers complete automatization. It may be brought up with

vagrant up

Then, we can visit the <http://192.168.99.100:8000> address to see the result

Solution Task #2

This solution uses two machines. The first one is based on the **shekeriev/centos-stream-9** box and the second one on the **shekeriev/debian-11** box

The following files are part of the solution:

task-2

```
|— minionfiles
|   └─ minion.yml -> Settings for the minion that will run on the
virtual machine(s)
|— roots
|   └─ db
|       └─ app
|           └─ db_setup.sql -> Database initialization script (added a database
drop instruction)
|               └─ base.sls -> The base state that will be applied to the
database machine
|                   └─ top.sls -> The link between the host and the state
└─ web
```

```

|       └─ app
|       |   └─ bulgaria-map.png -> Part of the application's files
|       |   └─ index.php         -> Part of the application's files
|       └─ base.sls              -> The base state that will be applied to the web
machine
|       └─ top.sls               -> The link between the host and the state
└─ Vagrantfile                  -> Vagrantfile to create the whole environment

```

The solution offers complete automatization. It may be brought up with

vagrant up

Then, we can visit the <http://192.168.99.101> address to see the result