# ICT & Infra S3 Automation week 2

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## Introduction

This week you will learn how to install Ansible, create/modify inventory file, execute simple Ad hoc commands and Playbooks. Before executing the assignments, start with installation of Ansible for your chosen OS. Beware, Windows is not supported for the control node.

**Installation Guide:** <https://docs.ansible.com/ansible/latest/installation_guide/index.html>

Additionally, you will need to create/modify inventory list to successfully execute Ansible commands in one or more clients. Therefore, after installation of Ansible, investigate the article “How to build your inventory” (<https://docs.ansible.com/ansible/latest/user_guide/intro_inventory.html>). Later, create a new group with several hosts (for example: another VM, the same control node, another computer/device in your house that supports SSH connectivity).

### Assignment 1. Create an Ad hoc command to execute in a selected group of hosts

### Difficulty: ★★☆☆☆.

Let’s execute few commands in Ansible using the simplest possible way. Think about few commands you can execute in host machines. Provide successful results after running these commands. **Tip**: use “command” or “shell” module to run shell commands in remote hosts.

More information about Ad hoc commands: <https://www.middlewareinventory.com/blog/ansible-ad-hoc-commands>

More information about Modules: <https://docs.ansible.com/ansible/2.9/modules/modules_by_category.html>

Provide screenshots (evidence) for your solution. Always explain your evidence!

Pem encryption key was provided by AWS EC2 instance GUI. This was used to securely connect my local virtual machine to the instance.

Example of edited [nodes] group in the inventory(hosts) file

Text

Description automatically generated

|  |
| --- |
| *Solution:*  *Example of ping command:* |

### Assignment 2. Create your first Playbook

### Difficulty: ★★★☆☆.

Now, let’s create Playbooks for the same Ad hoc commands you created before. Create one Playbook per command. Provide screenshots of the configuration files and their results.

More information about Playbooks and their execution:

* <https://docs.ansible.com/ansible/latest/user_guide/playbooks_intro.html>
* <https://www.middlewareinventory.com/blog/ansible-playbook-example/>

Provide screenshots (evidence) for your solution. Always explain your evidence!

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| --- |
| *Solution:* |

### Assignment 3. Create a Playbook with multiple commands

### Difficulty: ★★★★☆.

Now it’s time to make a list of commands to be executed in a Playbook. Create a Playbook of your choice, that uses at least 4 different Modules. As an evidence, explain your scenario (why did you execute the selected commands in given order) and provide the Playbook file and its result screenshots.

Provide screenshots (evidence) for your solution. Always explain your evidence!

creating User on EC2 instance, using 1st level verbose

Graphical user interface, text

Description automatically generated

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playbook1-user creation:

Graphical user interface, text

Description automatically generated with medium confidence

created folder and text files on the client vm:

Text

Description automatically generated

executed playbookFilesand yaml code: Text

Description automatically generated

Text

Description automatically generated