

NGINX

NGINX: Lab - Location Context

***NGINX** : Web-Server & Load Balancer*

- **Location Context:** Location blocks live within server blocks (or other location blocks) and are used to decide how to process the request URI.
- **Syntax:**
`location optional_modifier location_match {`
`}`

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- **location_match:** Defines what Nginx should check the request URI against.
- The existence or nonexistence of the modifier, affects the way that the Nginx attempts to match the location block.
- The modifiers below will cause the associated location block to be interpreted as follows:
 - **(none):** If no modifiers are present, the location is interpreted as a *prefix* match. This means that the location given will be matched against the beginning of the request URI to determine a match.
 - **=:** If an equal sign is used, this block will be considered a match if the request URI exactly matches the location given.
 - **~:** If a tilde modifier is present, this location will be interpreted as a case-sensitive regular expression match.
 - **~*:** If a tilde and asterisk modifier is used, the location block will be interpreted as a case-insensitive regular expression match.
 - **^~:** If a caret and tilde modifier is present, and if this block is selected as the best non-regular expression match, regular expression matching will not take place.

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- **Priority of Modifiers:** Nginx chooses the location that will be used to serve a request in a similar fashion to how it selects a server block. It runs through a process that determines the best location block for any given request.
- Understanding this process is a crucial requirement in being able to configure Nginx reliably and accurately.

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|------------------------------|-----|-----|
| 1. Exact Match | = | URI |
| 2. Preferential Prefix Match | ^ ~ | URI |
| 3. REGEX Match. | ~* | URI |

Will see you in Next Lecture...

Thank you!

A close-up photograph of a hand holding a black marker, completing the cursive word 'Thank you!' on a white surface. The hand is positioned on the right side of the frame, with the index and thumb fingers visible, holding the marker. The marker's tip is just finishing the exclamation mark. The background is a plain, light-colored surface.

See you in next lecture ...